

## Jellyfish

*Jellyfish form spectacular population blooms and there is compelling evidence that jellyfish blooms are becoming more frequent and widespread. Blooms have enormous ecological, economic, and social impacts. For example, they have been implicated in the decline of commercial fisheries, they block the cooling water intakes of coastal industries and ships, and reduce the amenity of coastal waters for tourists. Blooms may be caused by overfishing, climate change, and coastal pollution, which all affect coastal waters around the world. Jellyfish Blooms: Causes, Consequences and Recent Advances presents reviews and original research articles written by the world's leading experts on jellyfish. Topics covered include the evolution of jellyfish blooms, the impacts of climate change on jellyfish populations, advances in acoustic and molecular methods used to study jellyfish, the role of jellyfish in food webs and nutrient cycles, and the ecology of the benthic stages of the jellyfish life history. This is a valuable resource for students and professional marine biologists, fisheries scientists, oceanographers, and researchers of climate change.*

*Edgar the jellyfish joins a self-help group of starfish and learns to embrace what makes him unique.*

*"Describes the characteristics, food, habitat, and behavior of jellyfish!"*

*"In this mesmerizing book of photography, acclaimed photographer David Liittschwager reveals the unnerving beauty of three notoriously mysterious sea creatures--the jellyfish, octopus, and seahorse--and how they perceive the world. The jellyfish, the octopus, and the seahorse are among the most wondrous species on Earth--as well as some of the most difficult to document using traditional photography methods. Enter celebrated photographer David Liittschwager, who has spent decades developing specialized portraiture techniques to capture these creatures' pulsating bioluminescence, translucent bodies, and ethereal movements. This luminous collection showcases 200 of Liittschwager's most revealing photographs, paired with penetrating essays that explain how a creature without a brain or without bones perceives the world. Bestselling science writers Elizabeth Kolbert, Jennifer Holland, and Olivia Judson explain the biology and advanced cognitive abilities of these spineless denizens of the deep, exquisitely evoking their unnerving yet undeniable charisma. In these pages, you'll glimpse a seahorse only half an inch tall, a moon jelly spinning off a snowflake-shaped clone, and the blinking comb jelly, which may be the most ancient living animal on Earth. Both enlightening and profound, this enchanting book documents the expanding frontiers of marine science, creating a powerful testament to the value and beauty of these little-seen--and endangered--species.*

*Jellyfish: Boogers of the Sea*

*The Life of Jellyfish*

*Jellyfish - Fisheries Loans*

*I Am Not a Fish!*

This book is a shortened version of our popular "Jellyfish: Boogers of the Sea" and is intended for beginning readers. With only 930 easy to read words, young children can experience for themselves the joy of learning about the jellyfish. They will find out the answers to these questions: How does a jellyfish swim? What is a jellyfish made of? Does a jellyfish have a heart or a brain? How does a jellyfish hunt? And many more! Educational Versions have CCSS Activities. LearningIsland.com believes in the value of children practicing reading for 15 minutes every day.

books of knowledge. Many books are appropriate for hi-to readers. Open the world of reading to a child by having them read for 15 minutes a day.

Audisee® eBooks with Audio combine professional narration and text highlighting for an engaging read aloud experience! Carefully leveled text and fresh, vibrant photos engage young readers in learning about jellyfish. Age-appropriate critical thinking questions and a photo glossary help build nonfiction learning skills.

Jellyfish aren't fish, and they aren't made of jelly. So what exactly are they? In this fascinating introduction to jellyfish, readers will find out where these sea creatures live, how they move, what they eat, and more. Engaging, age-appropriate text makes reading fun. Colorful images add depth to the text and make this early elementary life-science topic come alive on each page. Even reluctant readers will be interested in learning more about these bizarre ocean animals.

Jellyfish are mysterious creatures, luminously beautiful with remarkably varied life cycles. These ancient animals are found in every ocean at every depth, and have lived on Earth for at least 500 million years. Jellyfish looks at their anatomy, life history, taxonomy and ecology, and includes species profiles featuring stunning marine photography.

And Other Self-care Rituals Worth Borrowing from Nature

An Alphabet Book

Jellyfish Blooms: Causes, Consequences and Recent Advances

The Science of Jellyfish and the Art of Growing a Backbone

Octopus, Seahorse, Jellyfish

*"Tsukimi Kurashita has a strange fascination with jellyfish. She's loved them from a young age and has carried that love with her to her new life in the big city of Tokyo. There, she resides in Amamizukan, a safe-haven for girl geeks who regularly gush over a range of things from trains to Japanese dolls. However, a chance meeting at a pet shop has Tsukimi crossing paths with one of the things that the residents of Amamizukan have been desperately trying to avoid - a beautiful and fashionable woman! But there's much more to this woman than her trendy clothes! This odd encounter is only the beginning of a new and unexpected path for Tsukimi and her friends."--Publisher's description.*

*Peanut Butter and Jellyfish are the best of friends. They swim up. They swim down. They swim all around. Except near Crabby, who never has anything nice to say to them. "You two swim like humans" is the least of his insults. Then one day Crabby is caught in a lobster trap and needs their help! Should they help him? It's Peanut Butter and Jellyfish to the rescue! Crabby might be afraid of heights . . . but will he be brave enough to apologize? This charming story about friendship, kindness, and building social skills is perfect for preschoolers and kindergartners.*

*Box jellyfish are responsible for about 20 to 40 deaths in the Philippines each year. The sting of one species of box jellyfish can kill a person in 3 minutes! While these are some of the deadliest jellyfish, all species of jellyfish sting, both for defense and to hunt for food. Full-color photographs introduce readers to the growing population of jellyfish in Earth's oceans. From the strange-but-cool life cycle of the jellyfish to the specifics of their stinging tentacles, the main text includes interesting science content, astonishing fact boxes, and useful information about sharing the oceans with these stinging creatures.*

*Ideal for today's young investigative reader, each A True Book includes lively sidebars, a glossary and index, plus a comprehensive "To Find Out More" section listing books, organizations, and Internet sites. A staple of library collections since the 1950s, the new A True Book series is the definitive nonfiction series for elementary school readers.*

*On Jellyfish Blooms and the Future of the Ocean*

A Natural History

Have You Ever Seen a Smack of Jellyfish?

Interactions with humans and fisheries

Jellyfish Blooms: Ecological and Societal Importance

**SpinelessThe Science of Jellyfish and the Art of Growing a BackbonePenguin**

**Discusses why the jellyfish population has exploded in recent years and why their dominance is indicative of a declining ocean ecosystem.**

***This stunning debut novel about grief and wonder was an instant New York Times bestseller and captured widespread critical acclaim, including selection as a 2015 National Book Award finalist! After her best friend dies in a drowning accident, Suzy is convinced that the true cause of the tragedy must have been a rare jellyfish sting-things don't just happen for no reason. Retreating into a silent world of imagination, she crafts a plan to prove her theory--even if it means traveling the globe, alone. Suzy's achingly heartfelt journey explores life, death, the astonishing wonder of the universe...and the potential for love and hope right next door.***

***Jellyfish generally are considered to be nuisances because they interfere with human activities by stinging swimmers, clogging power plant intakes and nets of fishermen, killing fish in aquaculture pens, and being both predators and competitors of fish. There is concern that environmental changes such as global warming, eutrophication, over-fishing, and coastal construction may benefit jellyfish populations. During this past decade following the first Jellyfish Blooms volume, some species have bloomed more frequently, expanded their range, and caused more problems for humans. Mnemiopsis leidyi, the ctenophore that invaded the Black Sea in the 1980s and damaged fisheries, now also blooms in the North, Baltic, and Mediterranean seas. Nematoplema nomurai, a giant Asian jellyfish, has bloomed frequently during this decade, causing severe damage to the Japanese fishing industry. Jellyfish Blooms: Interactions with Humans and Fisheries is the fourth volume in this series. Syntheses and original research articles address the question if jellyfish have increased globally and what factors may have contributed to the abundance of jellyfish. This volume is the most extensive to date, containing papers from all continents (except Antarctica) on scyphozoans, hydrozoans, cubozoans, staurozoans, and ctenophores, and on the fate of jellyfish blooms. This is a key reference for students and professional marine biologists, oceanographers, and fishery scientists and managers. Previously published in Hydrobiologia, vol. 690, 2012***

**All About Jellyfish**

**Jellyfish--fisheries Loans**

**PICTURE STORY JELLYFISH DISGUSTIN**

**Educational Version**

**Jellyfish**

This volume provides an identification key for the ephyrae of 18 common scyphozoan species, documents the Mediterranean-wide bloom of the invasive ctenophore Mnemiopsis leidyi, and addresses the direct effects of ocean acidification on jellyfish.

Our oceans are becoming increasingly inhospitable to life—growing toxicity and rising temperatures coupled with overfishing have led many marine species to the brink of collapse. And yet there is one creature that is thriving in this seaskic environment: the beautiful, dangerous, and now incredibly numerous jellyfish. As foremost jellyfish expert Lisa-ann Gershwin describes in Stung!, the jellyfish population bloom is highly indicative of the tragic state of the world's ocean waters, while also revealing the incredible tenacity of these remarkable creatures. Recent documentaries about swarms of giant jellyfish invading Japanese fishing grounds and summertime headlines about armadas of stinging jellyfish in the Mediterranean and Chesapeake are only the beginning—jellyfish are truly taking over the oceans. Despite their often dazzling appearance, jellyfish are simple creatures with simple needs: namely, fewer predators and competitors, warmer waters to encourage rapid growth, and more places for their larvae to settle and grow. In general, oceans that are less favorable to fish are more favorable to jellyfish, and these are the very conditions that we are creating through mechanized trawling, habitat degradation, coastal construction, pollution, and climate change. Despite their role as harbingers of marine destruction, jellyfish are truly enthralling creatures in their own right, and in Stung!, Gershwin tells stories of jellyfish both attractive and deadly while illuminating many interesting and unusual facts about their behaviors and environmental adaptations. She takes readers back to the Proterozoic era, when jellyfish were the top predator in the marine ecosystem—at a time when there were no fish, no mammals, and no turtles; and she explores the role jellies have as middlemen of destruction, moving swiftly into vulnerable ecosystems. The story of the jellyfish, as Gershwin makes clear, is also the story of the world's oceans, and Stung! provides a unique and urgent look at their inseparable histories—and future.

Explores the alphabet and animals through their collective nouns, including a covey of quails, a crosy of ponies, and a murder of crows.

Describes the physical characteristics, habits, and natural environment of many species of jellyfish, through simple text and photographs.

Jellyfish in the Water

Jellyfish Blooms: New Problems and Solutions

Wisdom From a Humble Jellyfish

Hearings Before the Subcommittee on Fisheries and Wildlife Conservation...89-2, on H.R. 11475, 11507, 16634. August 9-11, 1966

Meet the Jellyfish

Did you know that jellyfish are found in every ocean? A group of jellyfish is called a bloom. Learn more about these stinging drifters in All About Jellyfish.

Jellyfish are, like the mythical Medusa, both beautiful and potentially dangerous. Found from pole to tropic, these mesmeric creatures form an important part of the sea 's plankton and vary in size from the gigantic to the minute. Perceived as almost alien creatures and seen as best avoided, jellyfish nevertheless have the power to fascinate: with the sheer beauty of their translucent bells and long, trailing tentacles, with a mouth that doubles as an anus, and without a head or brain. Drawing upon myth and historical sources as well as modern scientific advances, this book examines our ambiguous relationship with these ancient and yet ill-understood animals, describing their surprisingly complex anatomy, weaponry, and habits, and their vital contributions to the ocean 's ecosystems.

This stunning debut novel about grief and wonder was an instant New York Times bestseller and captured widespread critical acclaim, including selection as a 2015 National Book Award finalist! After her best friend dies in a drowning accident, Suzy is convinced that the true cause of the tragedy must have been a rare jellyfish sting--things don't just happen for no reason. Retreating into a silent world of imagination, she crafts a plan to prove her theory--even if it means traveling the globe, alone. Suzy's achingly heartfelt journey explores life, death, the astonishing wonder of the universe...and the potential for love and hope right next door. Oddlot Entertainment has acquired the screen rights to The Thing About Jellyfish, with Gigi Pritzker set to produce with Bruna Papandrea and Reese Witherspoon.

Learn the fascinating story of one of the world's oldest animals: jellyfish! Jellyfish are everywhere and are one of the Earth's most fascinating animals. From the giant Nomura jellyfish in Japan, to the small but deadly kingslayer jellyfish in Australia, veteran nonfiction author Ginjrer L. Clarke spotlights one of the world's oldest animal groups. Told with simple language and shown with vivid photographs, Jellyfish! is perfect for emerging readers curious about the natural world.

Peanut Butter and Jellyfish

Hearings Before the Subcommittee on Fisheries and Wildlife Conservation of the Committee on Merchant Marine and Fisheries House of Representatives, Ninety-first Congress, Second Session on H.R. 12943, H.R. 14124, H.R. 14510 and H.R. 14611

Look, a Jellyfish!

Jenny Jellyfish

Jellies

Introduces jellyfish, describing their physical characteristics, feeding habits, senses, and defense mechanisms.

Describes the life cycle, habitat, behavior, and physical structure of the soft-bodied sea animal that has no brain or bones.

"Jellyfish", a group that includes scyphomedusae, hydromedusae, siphonophores and ctenophores, are important zooplankton predators throughout the world's estuaries and oceans. These beautiful creatures have come to public attention as featured exhibits in aquaria and in news headlines as invaders and as providers of genes used in biomedical research. Nevertheless, jellyfish are generally considered to be nuisances because they interfere with human activities by stinging swimmers, clogging power plant intakes and larvae. There is concern that environmental changes such as global warming, eutrophication, and over-fishing may result in increased jellyfish populations. The literature reviews and research papers in this volume explore the interactions between jellyfish and humans. Papers cover the medical aspects of jellyfish stings, jellyfish as human food and jellyfish fisheries, interactions of jellyfish and fish, effects of environmental changes on jellyfish, effects of introduced ctenophores on the Black Sea ecosystem, factors causing an important reference for students and professional marine biologists, oceanographers, fishery scientists, and aquarists.

\*Fascinating images accompany information about the box jellyfish. The combination of high-interest subject matter and narrative text is intended for students in grades 3 through 7"--Provided by publisher.

Jellyfish Blooms IV

The Thing About Jellyfish

Jellyfish Control

The Box Jellyfish

Princess Jellyfish, Volume 1, Stinging Beauty

A delightfully illustrated guide to harnessing the rhythms of nature for self-care. We could all learn a thing or two about living in balance from our friends in the plant and animal kingdom. Take, for example, the jellyfish, one of the most energy-efficient animals in the world, moving through the ocean by contracting and relaxing, with frequent breaks in between. Or the avocado tree, which can credit its existence to a mutually beneficial relationship with the pre-historic sloth, followed by some hungry, hungry humans and the advent of agriculture.

And then there is the oyster, producing a pearl as the result of an immune response when a grain of sand invades her system. What better example exists of how adversity can produce something beautiful? We need look no farther than nature—from the habits of the porcupine to the wombat to the dragonfly—for small and simple things we can do to slow down, recharge, and living more thoughtfully, lovingly, and harmoniously. Wisdom From a Humble Jellyfish . . . is at once charming and scientific, packed with essential wisdom and practical tips worth borrowing from our plant and animal friends for life-changing self-care.

Everybody knows turtles eat jellyfish! Well, everyone except a little turtle called Burt who thinks that they are stingy, and stringy and disgusting! Join Burt as he travels the ocean making friends...but will his tastes ever change?

Their painful stings and weird, unearthly beauty have long made jellyfish a topic of fascination. Young readers will be captivated by the varied array of jellyfish that live in the oceans, from large species that trail tentacles many feet long to bioluminescent ones that glow in the dark waters and even some that are considered a culinary delicacy. Entrancing photographs complement the wealth of information within these pages.

"Describes the physical characteristics, behavior, and habitat of jellyfish"--Provided by publisher.

A Tale of Wiggly Jellies

Spineless

Jellyfish!

The Thing About Jellyfish - FREE PREVIEW EDITION (The First 11 Chapters)

Jellyfish Blooms

Jellyfish are graceful, beautiful ocean animals. But their looks are deceiving. Those long, wavy tentacles can really sting! Jellyfish are often transparent. They do not have bones, blood, or brains. Despite their simplicity, these creatures have been around for millions of years. Discover more about jellyfish in this title for emergent readers.

Jellyfish are one of the most conspicuous animals in our oceans and are renowned for their propensity to form spectacular blooms. The unique features of the biology and ecology of jellyfish that enable them to bloom also make them successful invasive species and, in a few places around the world, jellyfish have become problematic. As man increasingly populates the world's coastlines, interactions between humans and jellyfish are rising, often to the detriment of coastal-based industries such as tourism, fishing and power generation. However we must not lose sight of the fact that jellyfish have been forming blooms in the oceans for at least 500 million years, and are an essential component of normal, healthy ocean ecosystems. Here many of the world's leading jellyfish experts explore the science behind jellyfish blooms. We examine the unique features of jellyfish biology and ecology that cause populations to 'bloom and bust', and, using case studies, we show why jellyfish are important to coastal and ocean ecosystem function. We outline strategies coastal managers can use to mitigate the effects of blooms on coastal industries thereby enabling humans to coexist with these fascinating creatures. Finally we highlight how jellyfish benefit society; providing us with food and one of the most biomedically-important compounds discovered in the 20th century. ?

Committee Serial No. 89-28. Considers H.R. 11475 and similar H.R. 11507 and H.R. 16634, to authorize the Interior Dept to provide financial and technical aid to states for study and control of jellyfish.

Jellyfish are animals that live in the sea. Most jellyfish are made up of a bell or top part. Then there are lots of tentacles or arms that hang down from the bell. These arms can be up to 100 feet long! The arms are the part of the jellyfish you want to stay away from. They have tiny stingers all over them. These stingers can inject poison into anything they touch. Find out what a jellyfish looks like, where it lives, what it eats, what eats it, how babies are born, and some funky facts. This Educational Version includes activities designed to reinforce Common Core Curriculum Standards. LearningIsland.com believes in the value of children practicing reading for 15 minutes every day. Our 15-Minute Books give children lots of fun, exciting choices to read, from classic stories, to mysteries, to books of knowledge. Many books are appropriate for hi-to readers. Open the world of reading to a child by having them read for 15 minutes a day.

Hearings Before the Subcommittee on Fisheries and Wildlife Conservation...91-2, on H.R. 12943, 14124, 14510, 14611, March 9 and 19, 1970

Stung!

Discovering Jellyfish

Proceedings of the International Conference on Jellyfish Blooms, held in Gulf Shores, Alabama, 12–14 January 2000

***"A book full of wonders"—Helen Macdonald, author of H Is for Hawk "Witty, insightful. . . . The story of jellyfish. . . is a significant part of the environmental story. Berwald's engaging account of these delicate, often ignored creatures shows how much they matter to our oceans' future." --New York Times Book Review Jellyfish have been swimming in our oceans for well over half a billion years, longer than any other animal that lives on the planet. They make a venom so toxic it can kill a human in three minutes. Their sting-microscopic spears that pierce with five million times the acceleration of gravity—is the fastest known motion in the animal kingdom. Made of roughly 95 percent water, some jellies are barely perceptible virtuosos of disguise, while others glow with a luminescence that has revolutionized biotechnology. Yet until recently, jellyfish were largely ignored by science, and they remain among the most poorly understood of ocean dwellers. More than a decade ago, Juli Berwald left a career in ocean science to raise a family in landlocked Austin, Texas, but jellyfish drew her back to the sea. Recent, massive blooms of billions of jellyfish have clogged power plants, decimated fisheries, and caused millions of dollars of damage. Driven by questions about how overfishing, coastal development, and climate change were contributing to a jellyfish population explosion, Juli embarked on a scientific odyssey. She traveled the globe to meet the biologists who devote their careers to jellies, hitched rides on Japanese fishing boats to see giant jellyfish in the wild, raised jellyfish in her dining room, and throughout it all marveled at the complexity of these alluring and ominous biological wonders. Gracefully blending personal memoir with crystal-clear distillations of science, Spineless is the story of how Juli learned to navigate and ultimately embrace her ambition, her curiosity, and her passion for the natural world. She discovers that jellyfish science is more than just a quest for answers. It's a call to realize our collective responsibility for the planet we share.***

***A day in the Life of Jenny Jellyfish and her friends includes being beached by a storm.***