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# Soundings The Story Of Remarkable Woman Who Mapped Ocean Floor Hali Felt

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*Soundings* Chemical Heritage Foundation  
The captivating, all-but-forgotten story of Isaac Newton, Albert Einstein, and the search for a planet that never existed. For more than fifty years, the world's top scientists searched for the "missing" planet Vulcan, whose existence was mandated by Isaac Newton's theories of gravity. Countless hours were spent on the hunt for

the elusive orb, and some of the era's most skilled astronomers even claimed to have found it. There was just one problem: It was never there. In *The Hunt for Vulcan*, Thomas Levenson follows the visionary scientists who inhabit the story of the phantom planet, starting with Isaac Newton, who in 1687 provided an explanation for all matter in motion throughout the universe, leading to Urbain-Jean-Joseph Le Verrier, who almost two centuries later built on Newton's theories and discovered Neptune, becoming the most famous scientist in the world. Le Verrier attempted to surpass that triumph by predicting the existence of yet another planet in our solar system, Vulcan. It took Albert Einstein to discern that the mystery of the missing planet was a problem not of measurements or math but of Newton's theory of gravity itself. Einstein's general theory of relativity proved that Vulcan did not and could not exist, and that the search for it had merely been a quirk of operating under the wrong set of assumptions about the universe. Levenson tells the previously untold tale of how the "discovery" of Vulcan in the nineteenth century set the stage for Einstein's monumental

breakthrough, the greatest individual intellectual achievement of the twentieth century. A dramatic human story of an epic quest, *The Hunt for Vulcan* offers insight into how science really advances (as opposed to the way we're taught about it in school) and how the best work of the greatest scientists reveals an artist's sensibility. Opening a new window onto our world, Levenson illuminates some of our most iconic ideas as he recounts one of the strangest episodes in the history of science. Praise for *The Hunt for Vulcan* "Delightful . . . a charming tale about an all-but-forgotten episode in science history."—*The Wall Street Journal* "Engaging . . . At heart, this is a story about how science advances, one insight at a time. But the immediacy, almost romance, of Levenson's writing makes it almost novelistic."—*The Washington Post* "A well-structured, fast-paced example of exemplary science writing."—*Kirkus Reviews* (starred review) *A Book of Golden Deeds* Penguin Psycho. Sick. Dangerous. Réal Dufresne's reputation precedes him. When the mangled body of

his best friend, Shaun, turns up in a field just east of town, tough-as-hell Réal blames himself. But except for the nightmares, all Ré remembers is beating the living crap out of Shaun the night of his death. Shaun's girlfriend, sixteen-year-old Evie Hawley, keeps her feelings locked up tight. But now she's pregnant, and the father of her baby is dead. And when Réal looks to her to atone for his sins, everything goes sideways. Fast. The tighter Evie and Réal get, the faster things seem to fall apart. And falling in love might just be the card that knocks the whole house down.

I.D. Gill & Macmillan Ltd  
"Nature, rightly questioned, never lies."  
—*A Manual of Scientific Enquiry*, Third Edition, 1859  
Scott Huler was working as a copy editor for a small publisher when he stumbled across the Beaufort Wind Scale in his Merriam Webster Collegiate Dictionary. It was one of those moments of discovery that writers live for. Written centuries ago, its 110 words launched Huler on a remarkable journey over land and sea into a fascinating world of explorers, mariners, scientists, and writers. After falling in love with what he decided was "the best, clearest, and most vigorous piece of descriptive writing I had ever seen," Huler went in search of Admiral Francis

Beaufort himself: hydrographer to the British Admiralty, man of science, and author—Huler assumed—of the Beaufort Wind Scale. But what Huler discovered is that the scale that carries Beaufort's name has a long and complex evolution, and to properly understand it he had to keep reaching farther back in history, into the lives and works of figures from Daniel Defoe and Charles Darwin to Captains Bligh, of the *Bounty*, and Cook, of the *Endeavor*. As hydrographer to the British Admiralty it was Beaufort's job to track the information that ships relied on: where to lay anchor, descriptions of ports, information about fortification, religion, and trade. But what came to fascinate Huler most about Beaufort was his obsession for observing things and communicating to others what the world looked like. Huler's research landed him in one of the most fascinating and rich periods of history, because all around the world in the mid-eighteenth and nineteenth centuries, in a grand, expansive period, modern science was being invented every day. These scientific advancements encompassed

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not only vast leaps in understanding but also how scientific innovation was expressed and even organized, including such enduring developments as the scale Anders Celsius created to simplify how Gabriel Fahrenheit measured temperature; the French-designed metric system; and the Gregorian calendar adopted by France and Great Britain. To Huler, Beaufort came to embody that passion for scientific observation and categorization; indeed Beaufort became the great scientific networker of his time. It was he, for example, who was tapped to lead the search for a naturalist in the 1830s to accompany the crew of the Beagle; he recommended a young naturalist named Charles Darwin. *Defining the Wind* is a wonderfully readable, often humorous, and always rich story that is ultimately about how we observe the forces of nature and the world around us.

The Flamethrowers University Press of New England  
A fast-paced, medical-historical mystery, filled with twists and turns.-Chicago Tribune

Fathoms Simon and Schuster

The quiet manatee has long been a

flash point of frequent environmental debates. It is Florida's most famous endangered species, as well as its most controversial.

Manatees appear on hundreds of license plates, attract hordes of tourists, and expose the uneasy relationships between science and the law and between freedom and responsibility like no other animal. ?

As passions have flared and resentments have grown, the battle over manatee protection has evolved into a war, and no reporter has followed the story more closely than Craig Pittman, the first environmental writer to explore the complex history, culture, and science of the controversies and concerns surrounding this remarkable creature. ? With an

abiding interest in the uncertain fate of this unique species, *Manatee Insanity* provides the first in-depth history of the attempts to provide legal protection for the manatee. Pittman follows Florida's gentle giants through time and space, detailing interactions with a variety of human actors, from Jacques-Yves Cousteau to Jeb Bush to Jimmy Buffett, from a popular children's book author to a federal lawyer who dressed in a gorilla suit for the ultimate undercover assignment. Ships and Shipwrecks Open Road Media Throughout the 1980s and 1990s, the author's family lived aboard a 47-foot sailboat, spending their summers along the U.S. East Coast and their winters in

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the Bahamas. As an adult, she lived aboard her own 28-foot sailboat and had several relationships trying to find someone who wasn't intimidated by her stubborn independence and free-spirited lifestyle.

**Escape from the Ordinary** Orca Book Publishers

Sophie is in a lot of trouble. She is on probation for stealing and is doing poorly at school. Her mom doesn't really talk to her, and the other adults in her life are pressuring Sophie to talk about her bruises. Sophie worries that if she tells, she will be sent to live in a group home. Her friend Jujube is the only person who knows the truth, and now Jujube, too, wants Sophie to speak up.

*Depths* Sheridan House, Inc.

By age thirty-four Captain John Smith was already a well-known adventurer and explorer. He had fought as a mercenary in the religious wars of Europe and had won renown for fighting

the Turks. He was most famous as the leader of the Virginia Colony at Jamestown, where he had wrangled with the powerful Powhatan and secured the help of Pocahontas. By 1614 he was seeking new adventures. He found them on the 7,000 miles of jagged coastline of what was variously called Norumbega, North Virginia, or Cannada, but which Smith named New England. This land had been previously explored by the English, but while they had made observations and maps and interacted with the native inhabitants, Smith found that "the Coast is . . . even as a Coast unknowne and undiscovered." The maps of the region, such as they were, were inaccurate. On a long, painstaking excursion along the coast in a shallop, accompanied by sailors and the Indian guide Squanto, Smith took careful compass readings and made ocean soundings. His Description of New England, published in 1616, which included a detailed map, became the standard for many years, the one used by such subsequent voyagers as the Pilgrims when they came to Plymouth in 1620.

The Sea Mark is the first narrative history of Smith's voyage of exploration, and it recounts Smith's last years when, desperate to return to New England to start a commercial fishery, he languished in Britain, unable to persuade his backers to exploit the bounty he had seen there.

The Billionaire and the Mechanic Reaktion Books

Alice doesn't like noise, smells or strangers. She does like rules. Lots of rules. Nobody at her new school knows she has Asperger's, so it doesn't take long for her odd behavior to get her into trouble. When she meets Megan in detention, she doesn't know what to make of her. Megan doesn't smell, she's not terribly noisy, and she's not exactly a stranger, but is she a friend? Megan seems fearless to Alice—but also angry or maybe sad. Alice isn't sure which. When Megan decides to run away, Alice resolves to help her friend, no matter how many rules she has to break or how bad it

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makes her feel.

**Catamarans** Crown  
Arriving in New  
York to pursue a  
creative career in  
the raucous 1970s  
art scene, Reno  
joins a group of  
dreamers and  
raconteurs before  
falling in love  
with the estranged  
son of an Italian  
motorcycle scion  
and succumbing to a  
radical social  
movement in 1977  
Italy. By the  
National Book Award-  
nominated author of  
Telex from Cuba.

**The Sea Mark** MSU Press  
From the day that  
French explorer Robert  
Cavelier de La Salle  
launched the Griffin  
in 1679 to the 1975  
sinking of the  
celebrated Edmund  
Fitzgerald, thousands  
of commercial ships  
have sailed on the  
vast and perilous  
waters of the Great  
Lakes. In a harbinger  
of things to come, on  
the return leg of its  
first trip in late  
summer 1679, the  
Griffin disappeared  
and has never been  
seen again. In the  
centuries since then,  
the records show that  
an alarming number of  
shipwrecks have

occurred on the Great  
Lakes. If vessels that  
wrecked but were later  
repaired and returned  
to service are  
included, the number  
certainly swells into  
the thousands. Most did  
not mysteriously vanish  
like the Griffin.  
Instead, they suffered  
the occupational  
hazards of every lake  
boat: collisions,  
groundings, strands,  
fires, boiler  
explosions, and  
capsizes. Many of these  
disasters took the  
lives of crews and  
passengers. The  
fearsome wrath of the  
storms that brew over  
the Great Lakes has  
challenged and defeated  
some of the staunchest  
vessels constructed in  
the shipyards of port  
cities along the U.S.  
and Canadian  
lakeshores. Here  
Richard Gebhart tells  
the tales of some of  
these ships and their  
captains and crews,  
from their launches to  
their sad demises—or  
sometimes, their  
celebrated retirements.  
This volume is a must-  
read for anyone  
intrigued by the  
maritime history of the  
Great Lakes.

#### Heart Sister

Grove/Atlantic, Inc.  
The dramatic and  
uplifting story of  
legendary outdoorsman

and conservationist  
John Muir's journey  
to become the man who  
saved Yosemite—from  
the author of the  
bestselling *Skeletons*  
on the *Zahara: A True*  
*Story of Survival*. In  
June of 1889 in San  
Francisco, John  
Muir—iconic  
environmentalist,  
writer, and  
philosopher—meets  
face-to-face for the  
first time with his  
longtime editor  
Robert Underwood  
Johnson, an elegant  
and influential  
figure at *The Century*  
magazine. Before  
long, the pair,  
opposites in many  
ways, decide to  
venture to Yosemite  
Valley, the  
magnificent site  
where twenty years  
earlier, Muir  
experienced a  
personal and  
spiritual awakening  
that would set the  
course of the rest of  
his life. Upon their  
arrival the men are  
confronted with a  
shocking vision, as  
predatory mining,  
tourism, and logging  
industries have  
plundered and defaced  
"the grandest of all  
the special temples

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of Nature." While Muir is consumed by grief, Johnson, a champion of society's most pressing debates via the pages of the nation's most prestigious magazine, decides that he and Muir must fight back. The pact they form marks a watershed moment, leading to the creation of Yosemite National Park, and launching an environmental battle that captivates the nation and ushers in the beginning of the American environmental movement. Beautifully rendered, deeply researched, and inspiring, *Guardians of the Valley* is a moving story of friendship, the written word, and the transformative power of nature. It is also a timely and powerful "origin story" as the toweringly complex environmental challenges we face today become increasingly urgent.

**Aspirin** Simon and Schuster  
Retire early, sell everything, buy a boat and sail

around the world. What could go wrong? Told with great suspense and sparkling with wry humor, *Escape from the Ordinary* captures the terrors and pleasures that come with forging ahead against great odds on the adventure of a lifetime.

When Morning Comes  
Orca Book Publishers  
A vivid, up-to-date tour of the Earth's last frontier, a remote and mysterious realm that nonetheless lies close to the heart of even the most land-locked reader. The sea covers seven-tenths of the Earth, but we have mapped only a small percentage of it. The sea contains millions of species of animals and plants, but we have identified only a few thousand of them. The sea controls our planet's climate, but we do not really understand how. The sea is still the frontier, and yet it seems so familiar that we sometimes forget how little we know about it. Just as we are poised on the verge of exploiting the sea on an

unprecedented scale—mining it, fertilizing it, fishing it out—this book reminds us of how much we have yet to learn. More than that, it chronicles the knowledge explosion that has transformed our view of the sea in just the past few decades, and made it a far more interesting and accessible place. From the Big Bang to that far-off future time, two billion years from now, when our planet will be a waterless rock; from the lush crowds of life at seafloor hot springs to the invisible, jewel-like plants that float at the sea surface; from the restless shifting of the tectonic plates to the majestic sweep of the ocean currents, Kunzig's clear and lyrical prose transports us to the ends of the Earth. Originally published in hardcover as *The Restless Sea*. "Robert Kunzig is a creator of what oceanographer Harry Hess once referred to as 'geopoetry.' He covers vast tracts of time and space and makes his subjects electrifying."—Richard Ellis, *The Times* [London] "The Restless

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Sea immediately surfaces at the top of the list of journalistic treatments of oceanography. . . . The book opened my eyes to numerous wonders."—Richard Strickland, American Scientist "When you head for the coast this summer, leave that trashy beach novel at home. Instead, pack Robert Kunzig's book. Because just beyond your rental cottage lies the restless sea, where three-mile-tall mountain ranges crisscross the ocean floor, and deep trenches harbor mysterious creatures. . . . The book is easy to read, and will bring you up to date on the startling discoveries oceanographers have made during the past few decades."—Phillip Manning, *The News and Observer* [Raleigh, North Carolina] "Anyone who loves the sea should read this book."—Sebastian Junger, *Guardians of the Valley* Orca Book Publishers Internationally acclaimed and bestselling author Henning Mankell will be published for the first time in Canada by Knopf Canada with *Depths*. October 1914:

the destroyer *Svea* emerged from the Stockholm archipelago bearing south-southeast. On board was Lars Tobiasson-Svartman, a naval engineer charged with making depth soundings to find a navigable channel for the Swedish navy. As a child Tobiasson-Svartman was fascinated by measurement; nothing is as magical as exact knowledge. His instinct for his profession is reflected in the comfortable domesticity he enjoys with his wife — herself meticulous in every detail. Close to the waters where soundings are taken Tobiasson-Svartman alights on a barren skerry, presumed uninhabited, and is surprised to discover there a young woman, Sara Fredrika. Despite her almost feral appearance, something about her strikes him to the core. The mission is a success and the *Svea* returns to Gothenburg. Tobiasson-Svartman, however, remains haunted by

this chance encounter; his equilibrium has been disturbed, and he is now compelled to find any pretence to return to the remote islet. In *Depths* Mankell confirms his status as a writer deserving acclaim beyond the crime genre. By delving deep into the male psyche, he has produced a novel as tense and compelling in every way as the Wallander series, but also powerful, moving and ultimately tragic. *Solving the Puzzle Under the Sea* Orca Book Publishers 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,

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at age 28, Marie walked her professional life 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 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 generations to come.

On My Own Country Simon and Schuster  
 A National Science Teaching Association  
 Best STEM Book of 2021  
 A NCSS Notable Social Studies Trade Book for

Young Readers Honor  
 Selection A Junior  
 Library Guild Selection  
 A mixed-format picture book biography of Marie Tharp, the remarkable woman who mapped the ocean floor. Marie Tharp earned a graduate degree in geology in the 1940s, at a time when scientific careers were largely unavailable to women. Marie's vision and tenacity paved the way for her to become one of the greatest oceanographic cartographers of the 20th century. She was the first person to map the ocean floor and discover the 40,000 mile long Mid-Ocean Ridge and Rift Valley. Her astounding discovery supported the theory of continental drift, which led to the theory of plate tectonics. But it was not an easy road, and Marie struggled to receive the credit she deserved for her discovery. From Marie Tharp's early childhood dreams all the way to her defining achievement, Josie James's Marie's Ocean is the story of one of earth science's greatest hidden figures. Christy Ottaviano Books  
Stories from the Deep Bloomsbury



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Publishing USA  
"This illustrated biography shares the story of female scientist, Marie Tharp, a pioneering woman scientist and the first person to ever successfully map the ocean floor"--  
Baygirl Orca Book Publishers  
Expanded to include the behind-the-scenes story of the 34th America's Cup and Team USA's incredible comeback Down eight-to-one in the 34th America's Cup in September 2013, Oracle Team USA pulled off a comeback for the ages, with eight straight wins against Emirates Team New Zealand. Julian Guthrie's *The Billionaire and the Mechanic* tells the incredible story of how a car mechanic and one of the world's richest men teamed up to win the world's greatest race. With a lengthy new section on the 34th America's Cup, Guthrie also shows how they did it again. The America's Cup, first awarded in

1851, is the oldest trophy in international sports. In 2000, Larry Ellison, co-founder and billionaire CEO of Oracle Corporation, decided to run for the prize and found an unlikely partner in Norbert Bajurin, a car mechanic and Commodore of the blue-collar Golden Gate Yacht Club. After unsuccessful runs for the Cup in 2003 and 2007, they won for the first time in 2010. With unparalleled access to Ellison and his team, Guthrie takes readers inside the building process of these astonishing boats and the lives of the athletes who race them and throws readers into exhilarating races from Australia to Valencia.  
*Marie's Ocean*  
BookRags  
Spun from the author's first-hand experience as an underwater cameraman and filmmaker, from memory, natural history and the culture of Ireland's coastal communities,

*Stories from the Deep* is a profound exploration of Ireland's ocean waters through narrative and poetry. From encounters with its rarest and most striking fauna, like the blue whale and basking shark, to the broader considerations of its impact on language and our shared sense of place, this genre-defying work is an eloquent and urgent tribute to the enduring beauty of our natural heritage and a moving elegy to our magical connection with the sea.