

Longitude The True Story Of A Lone Genius Who Solved The Greatest Scientific Problem Of His Time Dava Sobel

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Sea Clocks

The Story of Longitude

Jennifer Doudna, Gene Editing, and the Future of the Human Race

The History of Navigation

The Enlightenment Expedition That Reshaped Our World

A Mind-expanding Exploration of the Way the World Looks

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Longitude

Discovery of Longitude, The

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Men Without Country

A Novel

John Harrison and the Quest for Longitude

The Commodore (Vol. Book 17) (Aubrey/Maturin Novels)

438 Days

The Story of Longitude

The Longitude Prize

And the Sun Stood Still

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Measure of the Earth

How the Ladies of the Harvard Observatory Took the Measure of the Stars

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The Untold Story of Getting from Here to There

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The astonishing journey to discover the shape of the earth

A More Perfect Heaven

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The True Story of a Lone Genius who Solved the Greatest Scientific Problem of His Time Alfred a Knopf Incorporated

From #1 New York Times bestselling author Dava Sobel, the "inspiring" (People), little-known true story of women's landmark contributions to astronomy A New York Times Book Review Notable Book of 2017 Named one of the best books of the year by NPR, The Economist, Smithsonian, Nature, and NPR's Science Friday Nominated for the PEN/E.O. Wilson Literary Science Writing Award "A joy to read." —The Wall Street Journal In the mid-nineteenth century, the Harvard College Observatory began employing women as calculators, or "human computers," to interpret the observations their male counterparts made via telescope each night. At the outset this group included the wives, sisters, and daughters of the resident astronomers, but soon the female corps included graduates of the new women's colleges—Vassar, Wellesley, and Smith. As photography transformed the practice of astronomy, the ladies turned from computation to studying the stars captured nightly on glass photographic plates. The "glass universe" of half a million plates that Harvard amassed over the ensuing decades—through the generous support of Mrs. Anna Palmer Draper, the widow of a pioneer in stellar photography—enabled the women to make extraordinary discoveries that attracted worldwide acclaim. They helped discern what stars were made of, divided the stars into meaningful categories for further research, and found a way to measure distances across space by starlight. Their ranks included Williamina Fleming, a Scottish woman originally hired as a maid who went on to identify ten novae and more than three hundred variable stars; Annie Jump Cannon, who designed a stellar classification system that was adopted by astronomers the world over and is still in use; and Dr. Cecilia Helena Payne, who in 1956 became the first ever woman professor of astronomy at Harvard—and Harvard's first female department chair. Elegantly written and enriched by excerpts from letters, diaries, and memoirs, *The Glass Universe* is the hidden history of the women whose contributions to the burgeoning field of astronomy forever changed our understanding of the stars and our place in the universe.

Sea Clocks Grand Central Publishing

Declared "the best survival book in a decade" by Outside Magazine, *438 Days* is the true story of the man who survived fourteen months in a small boat drifting seven thousand miles across the Pacific Ocean. On November 17, 2012, two men left the coast of Mexico for a weekend fishing trip in the open Pacific. That night, a violent storm ambushed them as they were fishing eighty miles offshore. As gale force winds and ten-foot waves pummeled their small, open boat from all sides and nearly capsized them, captain Salvador Alvarenga and his crewmate cut away a two-mile-long fishing line and began a desperate dash through crashing waves as they sought the safety of port. Fourteen months later, on January 30, 2014, Alvarenga, now a hairy, wild-bearded and half-mad castaway, washed ashore on a nearly deserted island on the far side of the Pacific. He could barely speak and was unable to walk. He claimed to have drifted from Mexico, a journey of some seven thousand miles. A "gripping saga," (Daily Mail), *438 Days* is the first-ever account of one of the most amazing survival stories in modern times. Based on dozens of hours of exclusive interviews with Alvarenga, his colleagues, search-and-rescue officials, the remote islanders who found him, and the medical team that saved his life, *438 Days* is not only "an intense, immensely absorbing read" (Booklist) but an unforgettable study of the resilience, will, ingenuity and determination required for one man to survive more than a year lost and adrift at sea.

The Story of Longitude Avery

While Galileo Galilei was under house arrest, accused of heresy for his claim that the earth revolved around the sun, his daughter Virginia, a cloistered nun, proved to be her father's greatest source of strength through the difficult years of his trial and persecution. Winner of the Christopher Award and named a Notable Book of the Year by the "New York Times". Illustrations.

Jennifer Doudna, Gene Editing, and the Future of the Human Race Royal Museums Greenwich Presents a vivid account of a history-making storm that hit the New England coast in October 1991 and the lives it changed, weaving together the history of the fishing industry, the science of storms, and personal accounts. Tour.

The History of Navigation Penguin UK

300 years ago, amidst growing frustration from the naval community and pressure from the increasing importance of international trade, the British government passed the 1714 Longitude Act. It was an attempt to solve one of the most pressing problems of the age: how to determine a ship's longitude (east-west position) at sea. With life-changing rewards on offer, the challenge captured the imaginations and talents of astronomers, skilled craftsmen, politicians, seamen and satirists. This illustrated book is a detailed account of these stories, and how the longitude problem was solved.

The Enlightenment Expedition That Reshaped Our World A&C Black

The world-changing true story of the mission to discover the shape of the earth . . . 'An amazing story' Jeremy Vine 'This rollicking story of adventure and scientific exploration is as gripping as any novel . . . a book that sparkles with intelligence and wit' Alex Preston, author and journalist 'Crane has a rare knack for showing people things they really ought to see across space and time without them having to get out of their chair' Joe Smith, director of The Royal Geographic society

_____ The year is 1735. Twelve unruly men board ships bound for South America. Their mission? To discover the true shape of the earth. They will be exposed to a wilderness of dangers none can imagine. The survivors won't return for ten years. _____ They knew the world wasn't a sphere.

Either it stretched at the poles or it bulged at the equator. But which? They needed to know because accurate maps saved lives at sea and made money on land. But measuring the earth was so difficult that most thought it impossible. The world's first international team of scientists was sent to a continent of unmapped rainforests and ice-shrouded volcanoes where they attempted to measure the length on the ground of one degree of latitude. Beset by egos and disease, storms and earthquakes, mutiny and murder, they struggled for ten years to reach the single figure they sought. Latitude is an epic story of survival and science set in mountain camps and remote observatories. A breathtaking tale of courage in adversity, it is celebrated today as the first modern exploring expedition. _____ 'Latitude is a thrilling story of courage, survival and science. It's an extraordinary, visceral and vivid read' Geographical Magazine

A Mind-expanding Exploration of the Way the World Looks Pelican Publishing Company, Inc.

Tells the story of John Harrison, an eighteenth-century inventor of watches and clocks, who spent forty years working on a time-machine which could be used to accurately determine longitude at sea.

Debugging Teams Hardie Grant Publishing

The bestselling author of *Longitude* and *Galileo's Daughter* tells the story of Nicolaus Copernicus and the revolution in astronomy that changed the world.

A True Story of Men Against the Sea W. W. Norton & Company

Ruby is unlike most little girls in old China. Instead of aspiring to get married, Ruby is determined to attend university when she grows up, just like the boys in her family. Based upon the inspirational story of the author's grandmother and accompanied by richly detailed illustrations, *Ruby's Wish* is an engaging portrait of a young girl who strives for more and a family who rewards her hard work and

courage.

Longitude Penguin

A Best Book of 2021 by Bloomberg BusinessWeek, Time, and The Washington Post The bestselling author of Leonardo da Vinci and Steve Jobs returns with a “compelling” (The Washington Post) account of how Nobel Prize winner Jennifer Doudna and her colleagues launched a revolution that will allow us to cure diseases, fend off viruses, and have healthier babies. When Jennifer Doudna was in sixth grade, she came home one day to find that her dad had left a paperback titled *The Double Helix* on her bed. She put it aside, thinking it was one of those detective tales she loved. When she read it on a rainy Saturday, she discovered she was right, in a way. As she sped through the pages, she became enthralled by the intense drama behind the competition to discover the code of life. Even though her high school counselor told her girls didn’t become scientists, she decided she would. Driven by a passion to understand how nature works and to turn discoveries into inventions, she would help to make what the book’s author, James Watson, told her was the most important biological advance since his codiscovery of the structure of DNA. She and her collaborators turned a curiosity of nature into an invention that will transform the human race: an easy-to-use tool that can edit DNA. Known as CRISPR, it opened a brave new world of medical miracles and moral questions. The development of CRISPR and the race to create vaccines for coronavirus will hasten our transition to the next great innovation revolution. The past half-century has been a digital age, based on the microchip, computer, and internet. Now we are entering a life-science revolution. Children who study digital coding will be joined by those who study genetic code. Should we use our new evolution-hacking powers to make us less susceptible to viruses? What a wonderful boon that would be! And what about preventing depression? Hmm...Should we allow parents, if they can afford it, to enhance the height or muscles or IQ of their kids? After helping to discover CRISPR, Doudna became a leader in wrestling with these moral issues and, with her collaborator Emmanuelle Charpentier, won the Nobel Prize in 2020. Her story is an “enthralled detective story” (Oprah Daily) that involves the most profound wonders of nature, from the origins of life to the future of our species.

Discovery of Longitude, The Bloomsbury Publishing USA

Fourth-grader Mason struggles to enjoy playing basketball after his best friend persuades him to join a team, and learns that the dog-hating lady next door is not so bad after all.

The Code Breaker Smithsonian Inst Press

Contains an exclusive preview of *Micro* by Michael Crichton and Richard Preston. In Port Royal, a cutthroat town of taverns, grog shops and bawdy houses, life can end swiftly. But for Captain Edward Hunter, this is a life destined for riches; Spanish gold is there for the taking. And law in the New World is made by those who take it into their own hands.

The True Story of the Mutiny on the Bounty Macmillan

More than two centuries after Master’s Mate Fletcher Christian led a mutiny against Lieutenant William Bligh on a small, armed transport vessel called *Bounty*, the true story of this enthralling adventure has become obscured by the legend. Combining vivid characterization and deft storytelling, Caroline Alexander shatters the centuries-old myths surrounding this story. She brilliantly shows how, in a desperate attempt to save one man from the gallows and another from ignominy, two powerful families came together and began to create the version of history we know today. The true story of the mutiny on the *Bounty* is an epic of duty and heroism, pride and power, and the assassination of a brave man’s honor at the dawn of the Romantic age.

The Northern Lights Penguin

Describes the early 18th-century expedition of scientists sent by France and Spain to colonial Peru to measure the degree of equatorial latitude, which could resolve the debate between whether the earth was spherical or flattened at the poles.

Men Without Country Longitude *The True Story of a Lone Genius Who Solved the Greatest Scientific Problem of His Time*

The dramatic human story of an epic scientific quest and of one man's forty-year obsession to find a solution to the thorniest scientific dilemma of the day--"the longitude problem." Anyone alive in the eighteenth century would have known that "the longitude problem" was the thorniest scientific dilemma of the day-and had been for centuries. Lacking the ability to measure their longitude, sailors throughout the great ages of exploration had been literally lost at sea as soon as they lost sight of land. Thousands of lives and the increasing fortunes of nations hung on a resolution. One man, John Harrison, in complete opposition to the scientific community, dared to imagine a mechanical solution-a clock that would keep precise time at sea, something no clock had ever been

able to do on land. Longitude is the dramatic human story of an epic scientific quest and of Harrison's forty-year obsession with building his perfect timekeeper, known today as the chronometer. Full of heroism and chicanery, it is also a fascinating brief history of astronomy, navigation, and clockmaking, and opens a new window on our world.

A Novel Harper Collins

An enthralling biography of the man who created the first real map of the world and changed civilization Born at the dawn of the age of discovery, Gerhard Mercator lived in an era of formidable intellectual and scientific advances. At the center of these developments were the cartographers who painstakingly pieced together the evidence to create ever more accurate pictures of the planet. Mercator was the greatest of all of them-a poor farm boy who attended one of Europe's top universities, was persecuted and imprisoned by the Inquisition, but survived to coin the term "atlas" and to produce the so-called projection for which he is known. Devoutly religious, yet gripped by Aristotelian science, Mercator struggled to reconcile the two, a conflict mirrored by the growing clash in Europe between humanism and the Church. Mercator solved the dimensional riddle that had vexed cosmographers for so long: How could the three-dimensional globe be converted into a two-dimensional map while retaining true compass bearings? The projection revolutionized navigation and has become the most common worldview. Nicholas Crane-a fellow geographer-has combined a keen eye for historical detail with a gift for vivid storytelling to produce a masterful biography of the man who mapped the planet.

John Harrison and the Quest for Longitude Basic Books (AZ)

The dramatic human story of an epic scientific quest: the search for the solution of how to calculate longitude and the unlikely triumph of an English genius. With a Foreword by Neil Armstrong. Vintage Canada

A tale of eighteenth-century invention and competition, commerce and conflict, this is a lively, illustrated, and accurate chronicle of the search to solve “the longitude problem,” the question of how to determine a ship’s position at sea—and one that changed the history of mankind. *Ships, Clocks, and Stars* brings into focus one of our greatest scientific stories: the search to accurately measure a ship’s position at sea. The incredible, illustrated volume reveals why longitude mattered to seafaring nations, illuminates the various solutions that were proposed and tested, and explores the invention that revolutionized human history and the man behind it, John Harrison. Here, too, are the voyages of Captain Cook that put these revolutionary navigational methods to the test. Filled with astronomers, inventors, politicians, seamen, and satirists, *Ships, Clocks, and Stars* explores the scientific, political, and commercial battles of the age, as well as the sailors, ships, and voyages that made it legend—from Matthew Flinders and George Vancouver to the voyages of the *Bounty* and the *Beagle*. Featuring more than 150 photographs specially commissioned from Britain’s National Maritime Museum, this evocative, detailed, and thoroughly fascinating history brings this age of exploration and enlightenment vividly to life.

The Commodore (Vol. Book 17) (Aubrey/Maturin Novels) Henry Holt and Company

The bestselling author of *Longitude* and *Galileo's Daughter* tells the story of Nicolaus Copernicus and the revolution in astronomy that changed the world.

438 Days A&C Black

Using her deep knowledge, her skills as a storyteller, and her imagination, Dava Sobel illuminates one of history's most significant and far-reaching meetings. In the spring of 1539, a young German mathematician--Georg Joachim Rheticus--journeyed hundreds of miles to northern Poland to meet the legendary, elderly cleric and reluctant astronomer Nicolaus Copernicus. Some two decades earlier, Copernicus had floated the mind-boggling theory that the Sun, not the Earth, was stationary at the center of the universe, and he was rumored to have crafted a book that could prove it. Though exactly what happened between them can never be known, Rheticus shepherded Copernicus's great work into production and *De revolutionibus orbium coelestium* ultimately changed the course of human understanding. Dava Sobel imagines their dramatic encounter, and with wit and erudition gives them personality. Through clever and dramatic dialogue, she brings alive the months Rheticus and Copernicus spent together--the one a heretical Lutheran, the other a free-thinking Catholic--and in the process illuminates the historic tension between science and religion. An introduction by Dava Sobel will set the stage, putting the scenes in historical context, and an afterword will describe what happened after Copernicus's book was published detailing the impact it had on science and on civilization.

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