

Monarchs And Milkweed: A Migrating Butterfly, A Poisonous Plant, And Their Remarkable Story Of Coevolution

The Study of Plants in a Whole New Light
[Mat Candeias succeeds in evoking the wonder of plants with wit and wisdom.]
James T. Costa, PhD, executive director, Highlands Biological Station and author of Darwin's Backyard
#1 New Release in Nature & Ecology, Plants, Botany, Horticulture, Trees, Biological Sciences, and Nature Writing & Essays
In his debut book, internationally-recognized blogger and podcaster Matt Candeias celebrates the nature of plants and the extraordinary world of plant organisms. A botanist's defense. Since his early days of plant restoration, this amateur plant scientist has been enchanted with flora and the greater environmental ecology of the planet. Now, he looks at the study of plants through the lens of his ever-growing houseplant collection. Using gardening, houseplants, and examples of plants around you. In Defense of Plants changes your relationship with the world from the comfort of your windowsill. The milks, honey, and wonderful nature of plants. Understand how plants evolve and live on Earth with a never-before-seen look into their daily drama. Inside, Candeias explores the incredible ways plants live, fight, have sex, and conquer new territory. Whether a blossoming biologist or a professional plant scientist, In Defense of Plants is for anyone who sees plants as more than just static backdrops to more charismatic life forms. In this easily accessible introduction to the incredible world of plants, you'll find:
• Fantastic botanical histories and plant symbolism!
• Passionate stories of flora diversity and scientific names of plant organisms!
• Personal tales of plantsman discovery through the study of plants if you enjoyed books like The Botany of Desire, What a Plant Knows, or The Soul of an Octopus, then you'll love In Defense of Plants.

Introduces readers to key case studies that illustrate how theory and data can be integrated to understand wildlife disease ecology.

Now the subject of a feature film that the New York Times calls "spellbinding" How does life work? How does nature produce the right numbers of zebras and lions on the African savanna, or fish in the ocean? How do our bodies produce the right numbers of cells in our organs and bloodstream? In The Serengeti Rules, award-winning biologist and author Sean Carroll tells the stories of the pioneering scientists who sought the answers to such simple yet profoundly important questions, and shows how their discoveries matter for our health and the health of the planet we depend upon. One of the most important revelations about the natural world is that everything is regulated:there are rules that regulate the amount of every molecule in our bodies and rules that govern the numbers of every animal and plant in the wild. And the most surprising revelation about the rules that regulate life at such different scales is that they are remarkably similar:there is a common underlying logic of life. Carroll recounts how our deep knowledge of the rules and logic of the human body has spurred the advent of revolutionary life-saving medicines, and makes the compelling case that it is now time to use the Serengeti Rules to heal our ailing planet. A bold and inspiring synthesis by one of our most accomplished biologists and gifted storytellers, The Serengeti Rules is the first book to illuminate how life works at vastly different scales. Read it and you will never look at the world the same way again.

An account of a cross-country adventure chasing butterflies:
[Armschair travelers who love a good yarn will find Pyle's exuberance catching.]
Seattle Times
Part road-trip tale, part travelogue of lost and found landscapes, all good-natured natural history, Mariposa Road tracks Bob Pyle's journey across the United States as he races against the calendar in his search for as many of the eight hundred American butterflies as he can find. Like Pyle's classic Chasing Monarchs, Mariposa Road recounts his adventures, high and low, in tracking down butterflies in his own low-tech, individual way. Accompanied by Marsha, his cottonwood-limb butterfly net; Powdermilk, his 1982 Honda Civic with 345,000 miles on the odometer; and the small Leitz binoculars he has carried for more than thirty years, Bob ventured out in a series of remarkable trips from his Northwest home. From the California coastline in company with overwintering monarchs to the Far Northern tundra in pursuit of mysterious sulphurs and arctics; from the zebras and daggerwings of the Everglades to the leafwings, bluewings, and border rarities of the lower Rio Grande; from Graceland to ranchland and Kauai to Key West, these intimate encounters with the land, its people, and its fading fauna are wholly original. At turns whimsical, witty, informative, and inspirational, Mariposa Road is an extraordinary journey of discovery that leads the reader ever farther into butterfly country and deeper into the heart of the naturalist.
[What Roger Tory Peterson was for birds, Bob Pyle is for butterflies. . . From the dusty heat of Texas and the tropical lushness of Hawaii to the legendary outhouse of the Midnight Sun in the Alaskan Arctic, Pyle is a traveling companion who never grows dull.]
Scott Weidensaul, author of Of a Feather

North America's Migrating Insect

The Quest to Discover How Life Works and Why It Matters - With a new Q&A with the author

The Monarchs Are Missing

Linking Theory to Data and Application

The Mystery of the Monarchs

Monarch Butterfly 101

The Serengeti Rules

A New York Times 2018 Holiday Gift Selection Honey bees get all the press, but the fascinating story of North America's native bees—an endangered species essential to our ecosystems and food supplies—is just as crucial. Through interviews with farmers, gardeners, scientists, and bee experts, Our Native Bees explores the importance of native bees and focuses on why they play a key role in gardening and agriculture. The people and stories are compelling: Paige Embry goes on a bee hunt with the world expert on the likely extinct Franklin's bumble bee, raises blue orchard bees in her refrigerator, and learns about an organization that turns the out-of-play areas in golf courses into pollinator habitats. Our Native Bees is a fascinating, must-read for fans of natural history and science and anyone curious about bees.

For decades, as the monarch butterflies swooped through every year like clockwork, people from Canada to the United States to Mexico wondered, "Where do they go?" In 1976 the world learned the answer: after migrating thousands of miles, the monarchs roost by the millions in an oyamel grove in Central Mexico's mountains. But who solved this mystery? Was it the scientist or the American adventurer? The citizen scientists or the teacher or his students? Winged Wonders shows that the mystery could only be solved when they all worked as a team—and reminds readers that there's another monarch mystery today, one that we all must work together to solve.

Monarchs are a favorite and familiar North American butterfly, and their incredible annual migration has captured the popular imagination for generations. As populations of monarchs decline dramatically due to habitat loss and climate change, interest in and enthusiasm for protecting these beloved pollinators has skyrocketed. With easy-to-read text and colorful, engaging illustrations, Monarch Butterflies presents young readers with rich, detailed information about the monarchs' life cycle, anatomy, and the wonders of their signature migration, as well as how to raise monarchs at home and the cultural significance of monarchs in Day of the Dead celebrations. As the book considers how human behavior has harmed monarchs, it offers substantive ways kids can help make a positive difference. Children will learn how to turn lawns into native plant gardens, become involved in citizen science efforts such as tagging migrating monarchs and participating in population counts, and support organizations that work to conserve butterflies.

As Mama Feasts and in turn pollinates the earth, readers will take in the vibrant cut paper-illustrations of changing scenery, stopping at different locations for a sip of aster or delicious dill.

How to Raise Monarch Butterflies

Wildlife Disease Ecology

Monarch and Milkweed

Description of the Ecoregions of the United States

Monarch Butterfly Biology & Conservation

Biology and Conservation of an Iconic Butterfly

Caught in the Mystery of the Monarch

A major new book overturning our assumptions about how evolution works
Earth's natural history is full of fascinating instances of convergence: phenomena like eyes and wings and tree-climbing lizards that have evolved independently, multiple times. But evolutionary biologists also point out many examples of contingency, cases where the tiniest change—a random mutation or an ancient butterfly sneeze—caused evolution to take a completely different course. What role does each force really play in the constantly changing natural world? Are the plants and animals that exist today, and we humans ourselves, inevitabilities or evolutionary flukes? And what does that say about life on other planets? Jonathan Losos reveals what the latest breakthroughs in evolutionary biology can tell us about one of the greatest ongoing debates in science. He takes us around the globe to meet the researchers who are solving the deepest mysteries of life on Earth through their work in experimental evolutionary science. Losos himself is one of the leaders in this exciting new field, and he illustrates how experiments with guppies, fruit flies, bacteria, foxes, and field mice, along with his own work with anole lizards on Caribbean islands, are rewinding the tape of life to reveal just how rapid and predictable evolution can be. Improbable Destinies will change the way we think and talk about evolution. Losos's insights into natural selection and evolutionary change have far-reaching applications for protecting ecosystems, securing our food supply, and fighting off harmful viruses and bacteria. This compelling narrative offers a new understanding of ourselves and our role in the natural world and the cosmos.

This book explains the life of the Monarch Butterfly; from anatomy, diet and lifecycle, to the butterfly's risk factors, plant attraction and the Monarch's conservation.

An introduction to the life cycle of monarch butterflies depicts every stage while instructing youngsters on how to attract and raise their own butterflies, and explains how released butterflies migrate to resume the next cycle.

Monarch Butterflies is a richly illustrated, large-format book that celebrates North America's most recognized butterfly and educates children and families about what they can do to help protect these beloved pollinators from the impacts of habitat loss and climate change.

The First Butterfly Big Year

Monarch Butterflies

Saving Our Most-Loved Butterfly

Explore the Life Journey of One of the Winged Wonders of the World

Monarchs in a Changing World

International Traveler

Fate, Chance, and the Future of Evolution

This book tells what people believe about the monarch, why people love it, why it is important to science, the history of the monarch, the meaning of its name, and what the purpose of the monarch 's life is. - It gives a full description of what the monarch looks like, the metamorphosis, and a description of its four stages of its life. - It describes the monarch 's habitat, diseases, common predators, and what they do to avoid them. - It gives a description of the famous migration of the monarchs to Mexico and California every year. - It tells of the habits of the monarch including what they eat, the importance of milkweed plants, their mating habits, and other interesting facts. - It will list the reasons why the monarch is disappearing and how several organizations are working hard to save them. - There is a list of things to do to help save the caterpillars so they have the chance to become beautiful monarchs. - This book explains how we can keep the monarch from becoming classified as an endangered species. - The book has a list in the last chapter of places you can go to see exhibits and the live monarch along with other butterflies. About the Expert: Raised in the countryside of lovely central Minnesota, Jessica Dumas had plenty of butterflies around and was amazed by them. When she grew up, she married and moved to the city, had three children and a career. Her love for butterflies dwindled. Several years later her mom died from breast cancer. She left her several butterfly-related personal items. Jessica's love for butterflies was rekindled and in remembrance of her, she became an advocate and lover of butterflies with the desire to write about them. She has written poems about butterflies but this is her first butterfly book. Jessica hopes you enjoy it! HowExpert publishes quick 'how to' guides on all topics from A to Z by everyday experts.

Although no one had ever followed North American monarch butterflies on their annual southward journey to Mexico and California, in the 1990s there were well-accepted assumptions about the nature and form of the migration. But to Robert Michael Pyle, a naturalist with long experience in monarch conservation, the received wisdom about the butterflies ' long journey just didn ' t make sense. In the autumn of 1996 he set out to uncover the facts, to pursue the tide of "cinnamon sailors" on their long, mysterious flight. Chasing Monarchs chronicles Pyle ' s 9,000-mile journey to discover firsthand the secrets of the monarchs ' annual migration. Part road trip, part outdoor adventure, and part natural history study, Pyle ' s book overturns old theories and provides insights both large and small regarding monarch butterflies, their biology, and their spectacular migratory travels. Since the book's first publication, its controversial conclusions have been fully confirmed, and monarchs are better understood than ever before. The Afterword for this volume includes only updated information on the myriad threats to monarch butterflies, but also various efforts under way to ensure the future of the world ' s most amazing butterfly migration.

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