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NATURE
SCIENCE
ENVIRONMENT

The Liberty Hyde Bailey Gardener's Companion

Essential Writings

LIBERTY HYDE BAILEY. EDITED BY JOHN A. STEMPIEN & JOHN LINSTROM

“Every family can have a garden.”—Liberty Hyde Bailey

Finally, the best and most accessible garden writings of perhaps the most influential literary gardener of the twentieth century have been brought together in one book. Philosopher, poet, naturalist, educator, agrarian, scientist, and garden lover par excellence Liberty Hyde Bailey built a reputation as the Father of Modern Horticulture and evangelist for what he called the “garden-sentiment”—the desire to raise plants from the good earth for the sheer joy of it and for the love of the plants themselves. Bailey’s perennial call to all of us to get outside and get our hands dirty, old or young, green thumb or no, is just as fresh and stirring today as then.

Full of timeless wit and grace, *The Liberty Hyde Bailey Gardener's Companion* collects essays and poems from Bailey’s many books on gardening, as well as from newspapers and magazines from the era. Whether you’ve been gardening for decades or are searching for your first inspiration, Bailey’s words will make an ideal companion on your journey.

LIBERTY HYDE BAILEY (1858–1954) grew up on a farm in Michigan and went on to become Dean of the College of Agriculture at Cornell University, Chair of the Country Life Commission under President Theodore Roosevelt, and the “Father of Modern Horticulture.” He authored more than seventy books, published thousands of articles, and founded countless organizations.

JOHN STEMPIEN teaches history in Lowell, Michigan, and served as the first director of the Liberty Hyde Bailey Museum from 2006–2012.

JOHN LINSTROM is a writer and doctoral candidate in English. He edited the centennial edition of Bailey’s *The Holy Earth*.

“*The Liberty Hyde Bailey Gardener's Companion* makes a major contribution to literatures across a range of fields, including horticulture, environmental studies, gardening, natural resources, and philosophy. The writings it includes are a gift to our troubled world. There is no other book like it in print.”—Scott Peters, Cornell University, author of *Democracy and Higher Education*

“Liberty Hyde Bailey’s writings are elegant, informative, and poignant. I applaud the editors for putting this fine anthology together and believe it should be on the shelves of everyone working in environmental studies today.”—Ben A. Minteer, Arizona State University, author of *The Fall of the Wild*

\$26.95 hardcover 978-1-5017-4023-7

328 pages, 5.5 x 8.5

Monteverde and Arenal

Costa Rica Regional Guides

MARÍA MONTERO AND LUCIANO CAPELLI

Costa Rica is much more than a verdant paradise. It's a land of diverse landscapes and cultures. This collection of regional guides reveals unknown facets of Costa Rica and helps travelers understand what makes this country so unique.

From the magic of the cloud forest—with its quetzals and volcanoes—to a birdwatcher's paradise in the northern plains of the country, the twin destinations of Monteverde and Arenal offer more to see and do than any other pair of tourist destinations in Costa Rica.

Includes a colorful fold-out map of key tourist destinations.

MARÍA MONTERO is a journalist and poet who contributed to Ojalá's recent publication *Cocos Island*.

LUCIANO CAPELLI has produced award-winning books about the culture and natural history of Costa Rica.

AN OJALÁ EDICIONES AND ZONA TROPICAL PUBLICATION

\$17.95 paperback 978-1-5017-3928-6

64 pages, 9.25 x 8.5

Guanacaste

Costa Rica Regional Guides

MARÍA MONTERO AND LUCIANO CAPELLI

Costa Rica is much more than a verdant paradise. It's a land of diverse landscapes and cultures. This collection of regional guides reveals unknown facets of Costa Rica and helps travelers understand what makes this country so unique.

In this volume we introduce Guanacaste, a place of world-renowned surf spots and great natural beauty. It is a country within a country, with its own distinct climate, culture, and identity. The cradle of the nation's folkloric traditions, it is also the place that witnessed the rebirth of the last tract of tropical dry forest in the Americas.

Includes a colorful fold-out map of key tourist destinations.

MARÍA MONTERO is a journalist and poet who contributed to Ojalá's recent publication *Cocos Island*.

Luciano Capelli has produced award-winning books about the culture and natural history of Costa Rica.

AN OJALÁ EDICIONES AND ZONA TROPICAL PUBLICATION

\$17.95 paperback 978-1-5017-3927-9

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Caribbean Coast

Costa Rica Regional Guides

YAZMÍN ROSS AND LUCIANO CAPELLI

Costa Rica is much more than a verdant paradise. It's a land of diverse landscapes and cultures. This collection of regional guides reveals unknown facets of Costa Rica and helps travelers understand what makes this country so unique.

This volume introduces the Caribbean coast, which offers an embarrassment of riches. Pristine rainforests, waterways, and turtle nesting sites attract tourists to Tortuguero in the north, while tropical waters, charming hotels, and Afro-Caribbean culture draw visitors to the south.

Includes a colorful fold-out map of key tourist destinations.

YAZMÍN ROSS is a renowned author of books for children and adults about her adopted country Costa Rica.

LUCIANO CAPELLI has produced award-winning books about the culture and natural history of Costa Rica.

AN OJALÁ EDICIONES AND ZONA TROPICAL PUBLICATION

\$17.95 paperback 978-1-5017-3929-3
64 pages, 9.25 x 8.5

Sedges of the Northern Forest

A Photographic Guide

JERRY JENKINS

The Northern Forest Region lies between the oak forests of the eastern United States and the boreal forests of eastern Canada. It is, collectively, one of the largest and most continuous temperate forests left in the world and, like much of the biosphere, it is at risk. This guide is an essential companion for those interested in stewardship and conservation of the region.

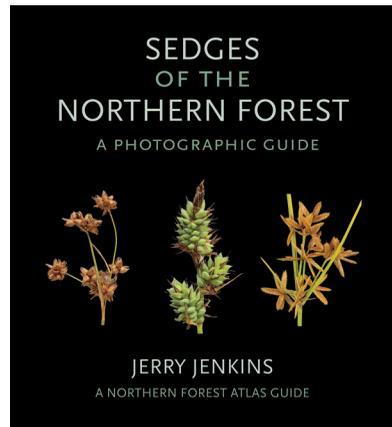
Through multi-image composite photos that allow for unparalleled depth and clarity, this unique guide illustrates the 236 varied and beautiful, and often overlooked, sedges of the Northern Forest.

- Large, easy-to-use format
- Easily identify and compare different sedges
- Fully illustrated with high-definition composite images
- Accompanying large-scale foldout charts also available

A complete online archive of images and articles, including digital atlases, is available at northernforestatlas.org.

This book was made in collaboration with the Northern Forest Atlas Foundation and the Wildlife Conservation Society Adirondack Program.

JERRY JENKINS directs the Northern Forest Atlas Project and is a researcher for the Wildlife Conservation Society. He is author of *Climate Change in the Adirondacks* and *The Adirondack Atlas* and coauthor of *Acid Rain in the Adirondacks*.



THE NORTHERN FOREST ATLAS GUIDES

\$16.95t paperback 978-1-5017-2708-5
96 pages, 10 x 11, fully illustrated

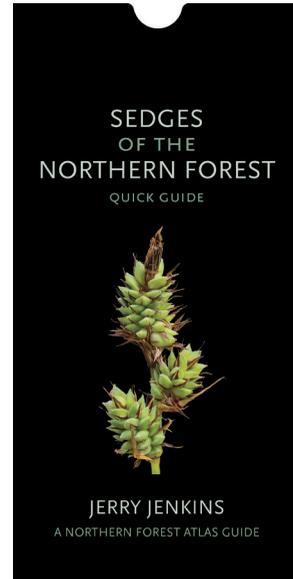
Sedges of the Northern Forest

Quick Guide

JERRY JENKINS

The *Quick Guide* for *Sedges of the Northern Forest* contains two double-sided photographic charts that allow users to see high-res, close-up images of the more than 200 sedges in the Northern Forest region. The map-sized folding charts are water-resistant and field-friendly, the perfect companion to the Photographic Guide. This product was made in collaboration with the Northern Forest Atlas Foundation and the Wildlife Conservation Society Adirondack Program.

JERRY JENKINS directs the Northern Forest Atlas Project and is a researcher for the Wildlife Conservation Society. He is author of *Woody Plants of the Northern Forest*, *Climate Change in the Adirondacks*, and *The Adirondack Atlas*. He is coauthor of *Acid Rain in the Adirondacks*.



THE NORTHERN FOREST ATLAS GUIDES

\$11.95t paperback 978-1-5017-2709-2

4 pages, 4 x 9, fold-out charts

Woody Plants of the Northern Forest

A Photographic Guide

JERRY JENKINS

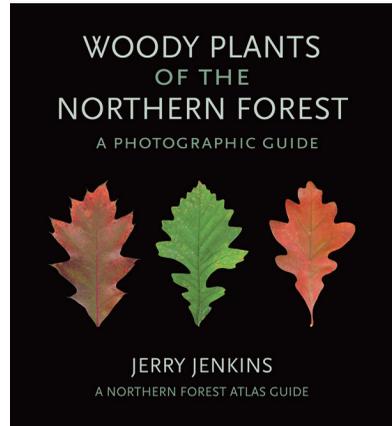
The Northern Forest Region lies between the oak forests of the eastern United States and the boreal forests of eastern Canada. It is, collectively, one of the largest and most continuous temperate forests left in the world and, like much of the biosphere, it is at risk. This guide is an essential companion for those interested in stewardship and conservation of the region.

Through multi-image composite photos that allow for unparalleled depth and clarity, this unique guide illustrates the majority of the 265 species of woody plants present in the forest and its associated communities. With a visual glossary, nineteen quick guides, and five systematic sections, this book is intended as a quick reference for the rapid identification of twigs and leaves. It is an invaluable tool for foresters and an excellent teaching guide for all ages.

- Large, easy-to-use format
- Easily compare different species
- Fully illustrated with high-definition composite images
- Accompanying large-scale foldout charts also available

A complete online archive of images and articles, including digital atlases, is available at northernforestatlas.org.

JERRY JENKINS directs the Northern Forest Atlas Project and is a researcher for the Wildlife Conservation Society. He is author of *Climate Change in the Adirondacks: The Path to Sustainability* and *The Adirondack Atlas: A Geographic Portrait of the Adirondack Park* and coauthor of *Acid Rain in the Adirondacks: An Environmental History*.



"Jerry Jenkins brings to this project a great depth of knowledge about botany and ecology, years of teaching experience and field work, a facility with photography and computer graphics, and an infectious love of every aspect of the Northern Forest Region, most especially its plants. He brings all of this and more to bear in this excellent guide."

—Chris Runcie, PhD, Naturalist and Educator, Four Winds Nature Institute

"Jerry Jenkins has a vision about how to present the northern forest that no one else has or will develop for a long time to come. From my perspective as someone who has used and enjoyed guides to all aspects of natural history throughout my life, including in my efforts to identify trees and other plant taxa, I know that I have never had available published material of this high quality."

—Clifford Kraft, Professor of Natural Resources, Cornell University

THE NORTHERN FOREST ATLAS GUIDES

\$16.95 978-1-5017-1968-4 paperback
64 pages, 11 x 10, fully illustrated

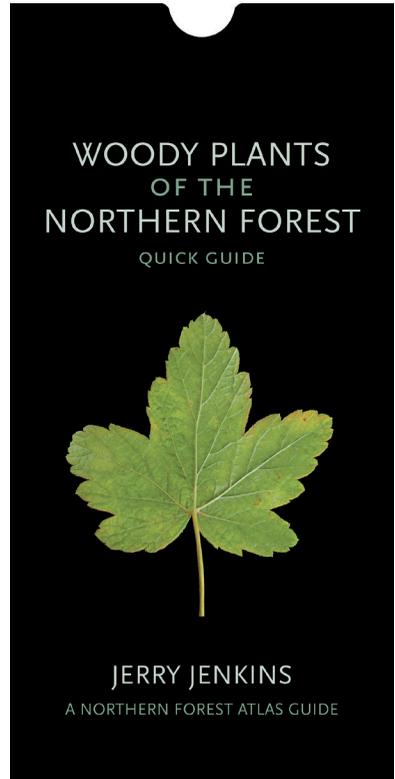
Woody Plants of the Northern Forest

Quick Guide

JERRY JENKINS

The *Quick Guide for Woody Plants of the Northern Forest* contains two double-sided photographic charts. The summer chart shows the leaves of over 200 deciduous trees, shrubs, vines, and creepers of the Northern Forest. The winter chart shows the buds of about 185 deciduous trees and shrubs. The map-sized folding charts are water-resistant and field-friendly, the perfect companion to the *Photographic Guide*. This product was made in collaboration with the Northern Forest Atlas Foundation and the Wildlife Conservation Society Adirondack Program.

JERRY JENKINS directs the Northern Forest Atlas Project and is a researcher for the Wildlife Conservation Society. He is author of *Climate Change in the Adirondacks: The Path to Sustainability* and *The Adirondack Atlas: A Geographic Portrait of the Adirondack Park* and coauthor of *Acid Rain in the Adirondacks: An Environmental History*.



THE NORTHERN FOREST ATLAS GUIDES

\$11.95 978-1-5017-2435-0 foldout
4 pages, 4 x 9, fully illustrated

Reptiles of Costa Rica

A Field Guide

TWAN LEENDERS

Reptiles of Costa Rica, the long-awaited companion to *Amphibians of Costa Rica*, is the first ever comprehensive field guide to the crocodylians, turtles, lizards, and snakes of Costa Rica. A popular destination for tourists and biologists because of its biodiversity, the country is particularly rich in reptile fauna, boasting 245 species. The sheer diversity in shapes, sizes, colors, and natural history traits of these animals is beautifully displayed in this book. Lizards range from minuscule dwarf geckos to dinosaur-like iguanids, and everything in between, while the country's snakes include tiny eyeless wormsnakes, massive boas, as well as twenty-three dangerously venomous species, which include the largest vipers in the world.

Author, photographer, and conservation biologist Twan Leenders has been researching and documenting the herpetofauna of Costa Rica for nearly twenty-five years. His explorations have taken him to remote parts of Costa Rica that few people ever visit, journeys that usually find him hauling an array of photographic equipment to document his finds. In addition to including more than 1,000 photographs, detailed black and white scientific illustrations, and range maps, this book also features paintings of anole dewlaps, a key identification feature for that very complex group of lizards. This new field guide will enable the reader to identify all species, while also providing a wealth of information about natural history, predation, breeding strategies, habitat preferences, and conservation of Costa Rica's reptile fauna.

TWAN LEENDERS is President of the Roger Tory Peterson Institute of Natural History in Jamestown, New York, and author of *Amphibians of Costa Rica*, also by Cornell University Press.

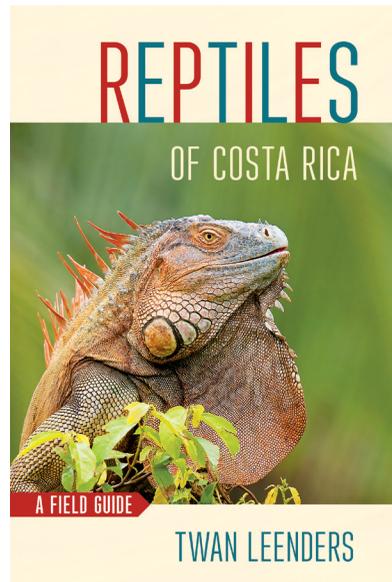
ZONA TROPICAL PUBLICATIONS

\$35.00t paperback 978-1-5017-3953-8

640 pages, 5 x 7.75, 800 color photos, 40 b&w line drawings,

51 illustrations, 245 maps

OCR



Nature Rx

Improving College-Student Mental Health

DONALD A. RAKOW AND GREGORY T. EELLS

The Nature Rx movement is changing campus life. Offering alternative ways to deal with the stress that students are under, these programs are redefining how to provide students with the best possible environment in which to be healthy, productive members of the academic community.

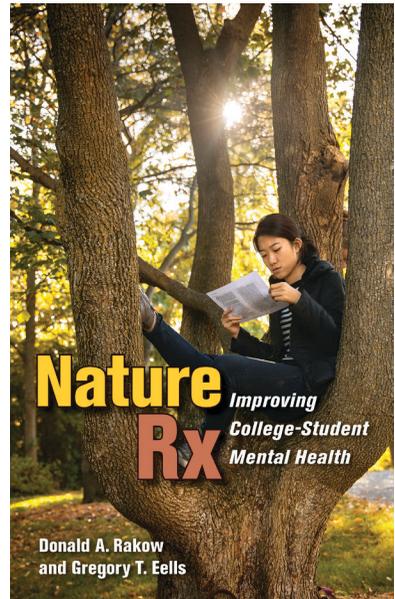
In *Nature Rx*, Donald A. Rakow and Gregory T. Eells summarize the value of nature prescription programs designed to encourage college students to spend time in nature and to develop a greater appreciation for the natural world. Because these programs are relatively new, there are many lessons for practitioners to learn; but clinical studies demonstrate that students who regularly spend time in nature have reduced stress and anxiety levels and improved mood and outlook.

In addition to the latest research, the authors present a step-by-step formula for constructing, sustaining, and evaluating Nature Rx programs, and they profile four such programs at American colleges. The practical guidance in *Nature Rx* alongside the authors' vigorous argument for the benefits of these programs for both students and institutions places Rakow and Eells at the forefront of this burgeoning movement.

DONALD A. RAKOW is Associate Professor in the Section of Horticulture, School of Integrative Plant Science at Cornell University.

GREGORY T. EELLS is Director of Counseling and Psychological Services at Cornell University.

\$14.95s paperbck 978-1-5017-1528-0
112 pages, 5.5 x 8.5



“*Nature Rx* is an enjoyable, convincing read. This book should inspire universities to take pride in the work of maintaining campus wilderness areas for the development of faculty, staff and student mental health.”

—Will Meek PhD, Brown University

“*Nature Rx* is an incredibly valuable resource for those involved in campus mental health, faculty and staff, as well as stakeholders more holistically involved in the campus community.”

—Sarah Beck, American Public Gardens Association

Coves of Departure

Field Notes from the Sea of Cortez

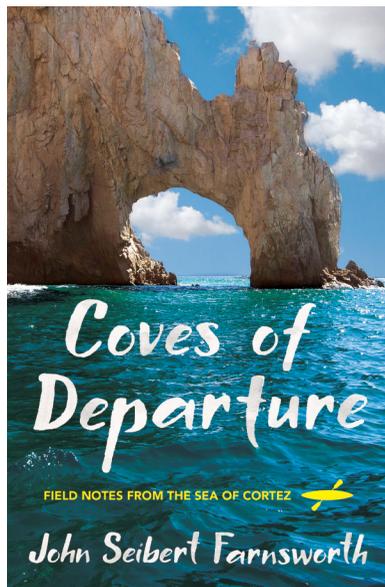
JOHN SEIBERT FARNSWORTH

Coves of Departure is a literary natural history presented through nature memoir, personal essay, and field notes. John Seibert Farnsworth focuses on the natural history of Mexico's Baja California peninsula, especially the littoral zone of the Sea of Cortez. With a flowing literary style, he takes readers on a journey by sea kayak to the Isla Espiritu Santo archipelago of Baja California Sur, uncovering the natural history of this spectacular region.

Farnsworth's love song to nature documents a decade of exploring the area, illuminating his experience as a writing professor taking undergraduates on sea kayak expeditions each year during spring break. *Coves of Departure* reflects on a condor restoration project in the Sierra San Pedro Martir, an alternative teaching experience on Bahía de los Angeles, and much more. Through Farnsworth's memory and eye, readers are immersed in Baja ecology, witness the power of education—formal and informal—to become a transformational experience, and discover a region of natural beauty often seen best from the low horizon of a kayak paddling quietly through the surf.

A retired scuba instructor who turned to academia and went on to receive his college's highest teaching award, JOHN SEIBERT FARNSWORTH believes that education should be a lifelong adventure, and that explorations of the natural world should be animated by reverence and delight.

\$18.95 978-1-5017-3018-4 paperback
168 pages, 6 x 9



“Farnsworth is the David Sedaris of the Sea of Cortez! I enjoyed and trusted in all that I learned about this world, while smiling out loud.”

—Sharman Apt Russell, author of *Diary of a Citizen Scientist*

“*Coves of Departure* is a meditation on teaching students to immerse, reflect, and articulate engagement. Kathleen Jamie notes poetry is ‘Bringing the quality of attention to the world.’ Farnsworth’s book follows his mentor’s words, blending accuracy and detail of marine life with history and narrative.”

—David Taylor, author of *The Sea of Cortez: A Poem Series*

“Think of *Coves of Departure* as a field guide to delight.”

—Tom Fleischner, editor of *Nature, Love, Medicine*

“John Farnsworth is a scrupulous observer and questioner, richly bringing Baja, California to life. We get a vivid sense of the personality of an eel or the sheer size of a condor. He makes an engaging argument about natural history as art.”

—Kim Todd, author of *Tinkering with Eden: A Natural History of Exotics in America*

Urban Ornithology

150 Years of Birds in New York City

P. A. BUCKLEY, WALTER SEDWITZ, WILLIAM J. NORSE, AND JOHN KIERAN

Urban Ornithology is the first quantitative historical analysis of any New York City natural area's birdlife—Van Cortlandt Park and the adjacent Northwest Bronx—and spans the century and a half from 1872 to 2016. Only Manhattan's Central and Brooklyn's Prospect Parks have preliminary species lists, not revised since 1967, and the last book examining the birdlife of the entire New York City area is now more than fifty years old. The present book also updates the avifaunas of those two parks, the Bronx, and other New York City boroughs.

Urban Ornithology treats the 301 bird species known to have occurred within its study area, plus fifty potential additions. Its 123 breeding species are tracked from 1872, only twenty years after Audubon's death in Manhattan, supplemented by quantitative breeding bird censuses from 1937 to 2015. Gains and losses of breeding species are discussed in light of an expanding New York City inexorably extinguishing unique habitats. The many tradeoffs inherent in managing an urban park area for mass recreation while conserving its natural resources are examined throughout.

P. A. BUCKLEY, a Riverdale native, is Senior Scientist Emeritus at Patuxent Wildlife Research Center.

WALTER SEDWITZ was a Bronx resident whose favorite fieldwork site was Jerome Reservoir.

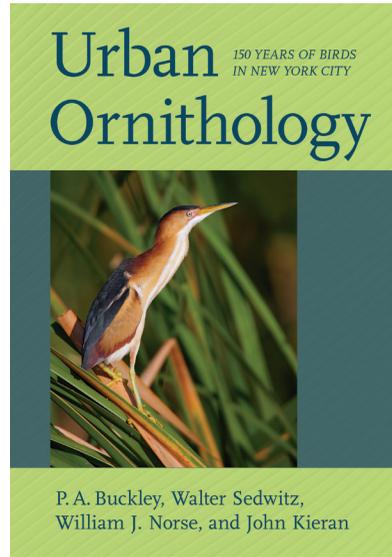
WILLIAM J. NORSE studied birds throughout the Bronx and compiled its Christmas Bird Counts.

JOHN KIERAN was Bronx-born and a sports writer for the *New York Times*. Perfervid students of New York City area birdlife, the four have been writing extensively about it since the 1930s.

\$75.00 978-1-5017-1961-5 hardcover

472 pages, 7 x 10, 6 b&w halftones, 13 maps, 1 frontispiece,

44 graphs



“An inter-generational life work of exceptional breadth and depth by co-authors intimately acquainted with their subject. *Urban Ornithology* provides a meticulous account of eco-history of the Northwest Bronx.”

—Richard P. Kane, co-author of *Birds of New Jersey*

“*Urban Ornithology* is of exceptionally high quality and reflects the expertise of the four authors, spanning their more than one hundred years of field work. A monumental contribution to the growing field of urban ecology.”

—Richard R. Veit, co-author of *Birds of Massachusetts*

“*Urban Ornithology*'s rich historic and current information on New York City's birdlife makes it essential and fascinating reading for all metropolitan naturalists. The Bronx remains a birding hotspot, and Van Cortlandt Park could, with smart management, become the premier urban wildlife park in the United States.”

—Roger Pasquier, author of *Watching Birds and Painting Central Park*

Communicating Climate Change

A Guide for Educators

ANNE ARMSTRONG, MARIANNE E. KRASNY,
AND JONATHON PAUL SCHULDt

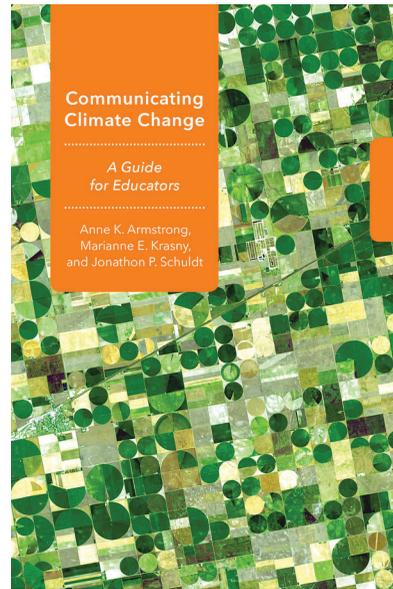
Environmental educators face a formidable challenge when they approach climate change due to the complexity of the science and of the political and cultural contexts in which people live. There is a clear consensus among climate scientists that climate change is already occurring as a result of human activities, but high levels of climate change awareness and growing levels of concern have not translated into meaningful action. *Communicating Climate Change* provides environmental educators with an understanding of how their audiences engage with climate change information as well as with concrete, empirically tested communication tools they can use to enhance their climate change program.

Starting with the basics of climate science and climate change public opinion, Armstrong, Krasny, and Schuldt synthesize research from environmental psychology and climate change communication, weaving in examples of environmental education applications throughout this practical book. Each chapter covers a separate topic, from how environmental psychology explains the complex ways in which people interact with climate change information to communication strategies with a focus on framing, metaphors, and messengers. This broad set of topics will aid educators in formulating program language for their classrooms at all levels. *Communicating Climate Change* uses fictional vignettes of climate change education programs and true stories from climate change educators working in the field to illustrate the possibilities of applying research to practice, and ably demonstrates that environmental education can foster positive climate change dialogue and action.

ANNE K. ARMSTRONG is a PhD Student in the Department of Natural Resources at Cornell University. MARIANNE E. KRASNY is Professor in the Department of Natural Resources at Cornell University. JONATHON P. SCHULDt is Assistant Professor in the Department of Communication at Cornell University.

CORNELL SERIES IN ENVIRONMENTAL EDUCATION

\$19.95 978-1-5017-3079-5 paperback
174 pages, 6 x 9, 2 b&w halftones, 1 figure, 9 charts



“*Communicating Climate Change* provides a coherent explanation of effective climate change communication for practitioners. The vignettes offer excellent examples of environmental educators using these strategies to develop more helpful programs, share information about climate science, and empower people to adopt strategies to mitigate and adapt to change.”

—Martha Monroe, University of Florida

“Our climate is changing faster than scientists ever predicted. *Communicating Climate Change* explores the critical role education plays in addressing threats posed by climate change and the importance of understanding audience values, needs, knowledge, and identities. Educators will find a wealth of ideas, including two essential insights: information is not enough to catalyze action and people need hope!”

—Judy Braus, editor of *NatureScope*, *Windows on the Wild*, *Tools of Engagement*, and *Diversity and the Conservation Movement*

The Birds at My Table

Why We Feed Wild Birds and Why It Matters

DARRYL JONES

Darryl Jones is fascinated by bird feeders. Not the containers supplying food to our winged friends, but the people who fill the containers.

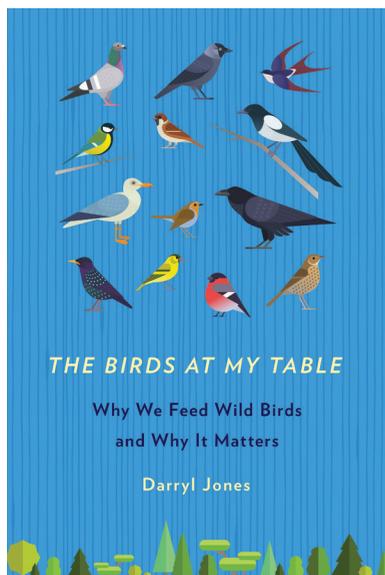
Why do people do this? Jones asks in *The Birds at My Table*. Does the food even benefit the birds? What are the unintended consequences of providing additional food to our winged friends?

Jones takes us on a wild flight through the history of bird feeding. He pinpoints the highs and lows of the practice. And he ponders this odd but seriously popular form of interaction between humans and wild animals. Most important, he points out that we know very little about the impact of feeding birds despite millions of people doing it every day.

Unerringly, Jones digs at the deeper issues and questions, and he raises our awareness of the things we don't yet know and why we really should. Using the latest scientific findings, *The Birds at My Table* takes a global swoop from 30,000 feet down to the backyard bird feeder and pushes our understanding of the many aspects of bird feeding back up to new heights.

DARRYL JONES is Professor and Deputy Director, Environmental Futures Research Institute, Griffith University. He has published widely, including more than one hundred articles and seven books.

\$19.95 978-1-5017-1078-0 paperback
346 pages, 6 x 9



“Readers expecting a user-friendly guide to backyard bird feeding will not find it here. This is a hard look at the practice that raises serious questions and suggests that the consequences of this commonplace and seemingly harmless and pleasant pastime need further investigation by the scientific community.... An intriguing book that is sure to ruffle the feathers of many nonscientist bird enthusiasts.”

—*Kirkus Reviews*

“A passionate discussion of the complex ways that bird feeding matters. Impressively comprehensive, the author has read every scientific study of bird feeding and visited bird feeders in Australia, New Zealand, the United Kingdom, and the United States. Jones convincingly shows that bird feeding is a global practice with ethical implications.”

—Jeff Karnicky, author of *Scarlet Experiment: Birds and Humans in America*

“*The Birds at My Table* is a delightful and informative read by a keen naturalist and gifted scholar that will deepen your understanding of birds and why so many of us are compelled to feed them.”

—John M. Marzluff, author of *Welcome to Subirdia*

Birds of Nicaragua

A Field Guide

LILIANA CHAVARRÍA-DURIAUX, DAVID C. HILLE, AND ROBERT DEAN

FOREWORD BY TOM WILL

Birders in Central America have long known that Nicaragua is one of the best birding locations in the world, and with tourism to the country on the upswing, birders from the rest of the world are now coming to the same conclusion. The largest country in Central America, Nicaragua is home to 763 resident and passage birds, by latest count. Because of its unique topography—the country is relatively flat compared to its mountainous neighbors to the north and south—it forms a geographical barrier of sorts, which means that many birds that originate in North America reach their southernmost point in Nicaragua, while many birds from South America reach their northernmost point in the country. There are few places in the world where you can find both a Roadrunner and a Scarlet Macaw.

Birds of Nicaragua features descriptions and illustrations of all 763 species currently identified in the country, along with information about 44 additional species that are likely to appear in the coming years. Range maps, based on years of field research, are color-coded. Other features include a richly illustrated anatomical features section, a checklist, a visual guide to vultures and raptors in flight, and a quick-find index.

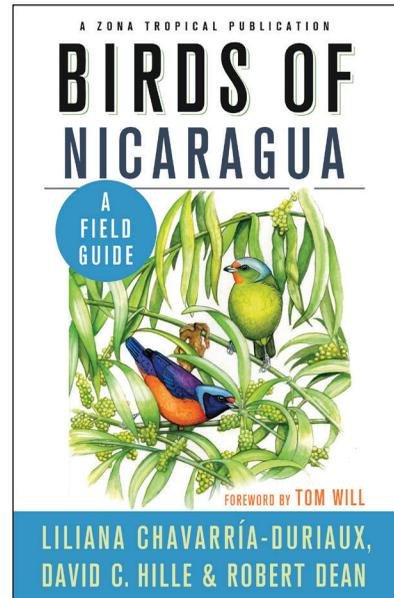
LILIANA CHAVARRÍA-DURIAUX has spent two decades conducting bird surveys throughout the far reaches of Nicaragua. She is Cofounder of El Jaguar Reserve, where she serves as Ornithological Research Director.

Ornithologist and cartographer DAVID C. HILLE has researched the parrot populations of Nicaragua for the past five years.

ROBERT DEAN is an acclaimed nature artist who has painted birds for field guides covering all seven countries in Central America.

ZONA TROPICAL PUBLICATIONS

\$39.95 978-1-5017-0158-0 paperback
480 pages, 5 x 8, fully illustrated



“This work represents the definitive field guide to Nicaraguan birds for bird watchers and ornithologists alike.”

—Steve Beissinger, President, American Ornithological Society

“Indispensable for learning the birds of Nicaragua and the diverse topography and habitats.”

—Mark Robbins, Biodiversity Institute and Natural History Museum, University of Kansas

“Field guides are one of our best conservation tools—we cannot conserve what we don’t know. From preferred habitat types and features, to specific calls and behaviors, *Birds of Nicaragua* provides much needed details to aid in the identification of the 763 bird species that make up the rich avifauna of the country. This guide will make a significant impact on bird conservation for one of the most important regions in Mesoamerica.”

—Viviana Ruiz-Gutierrez, Quantitative Ecologist, Cornell Lab of Ornithology

“A must-have for those birding in Nicaragua!”

—The Birdbooker Report

Grassroots to Global

Broader Impacts of Civic Ecology

EDITED BY MARIANNE E. KRASNY

FOREWORD BY KEITH G. TIDBALL

AFTERWORD BY DAVID MADDOX

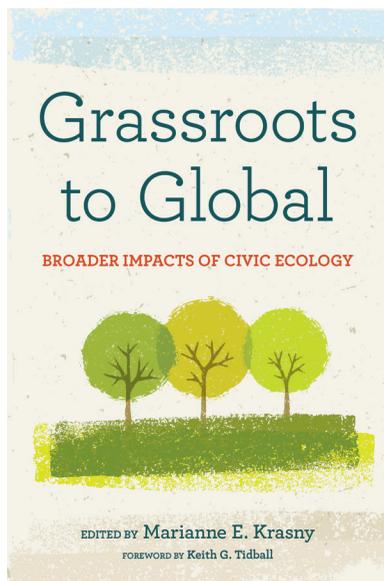
Addressing participatory, transdisciplinary approaches to local stewardship of the environment, *Grassroots to Global* features scholars and stewards exploring the broad impacts of civic engagement with the environment.

Chapters focus on questions that include: How might faith-based institutions in Chicago expand the work of church-community gardens? How do volunteer “nature cleaners” in Tehran attempt to change Iranian social norms? How does an international community in Baltimore engage local people in nature restoration while fostering social equity? How does a child in an impoverished coal mining region become a local and national leader in abandoned mine restoration? And can a loose coalition that transforms blighted areas in Indian cities into pocket parks become a social movement? From the findings of the authors’ diverse case studies, editor Marianne Krasny provides a way to help readers understand the greater implications of civic ecology practices through the lens of multiple disciplines.

MARIANNE E. KRASNY is Professor in the Department of Natural Resources and Director of the Civic Ecology Lab at Cornell University. She is the coeditor or coauthor of numerous books, most recently, *Urban Environmental Education Review* and *Civic Ecology: Adaptation and Transformation from the Ground Up*.

Contributors: Aniruddha Abhyankar, Martha Chaves, Louise Chawla, Dennis Chestnut, Nancy Chikaraishi, Zahra Golshani, Lance Gundersen, Keith E. Hedges, Robert E. Hughes, Rebecca Jordan, Karim-Aly Kassam, Laurel Kearns, Marianne E. Krasny, Veronica Kyle, David Maddox, Mila Kellen Marshall, Elizabeth Whiting Pierce, Rosalba Lopez Ramirez, Michael Sarbanes, Philip Silva, Traci Sooter, Erika S. Svendsen, Keith G. Tidball, Arjen E. J. Wals, Rebecca Salminen Witt, Jill Wrigley

\$28.95 978-1-5017-2197-7 paperback
276 pages, 28 b&w halftones, 6 diagrams, 1 graph



“Across the globe, people in urban communities are developing new ethics and cultures around their evolving relationship with nature. This book takes on the crucial task of exploring those new perspectives. The authors examine numerous practical examples of environmental stewardship and consider to what extent these movements may shape and create new alliances and movements and how they will help define the urban environment.”
—Thomas Elmqvist, Stockholm Resilience Center

Urban Environmental Education Review

EDITED BY ALEX RUSS AND
MARIANNE E. KRASNY

Urban Environmental Education Review explores how environmental education can contribute to urban sustainability. Urban environmental education includes any practices that create learning opportunities to foster individual and community well-being and environmental quality in cities. It fosters novel educational approaches and helps debunk common assumptions that cities are ecologically barren and that city people don't care for, or need, urban nature or a healthy environment.

Topics in *Urban Environmental Education Review* range from the urban context to theoretical underpinnings, educational settings, participants, and educational approaches in urban environmental education. Chapters integrate research and practice to help aspiring and practicing environmental educators, urban planners, and other environmental leaders achieve their goals in terms of education, youth and community development, and environmental quality in cities.

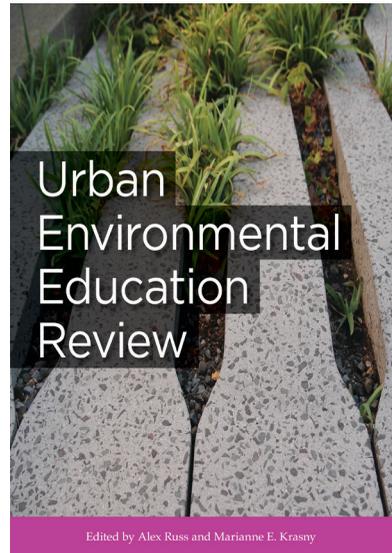
The ten-essay series Urban EE Essays, excerpted from *Urban Environmental Education Review*, may be found here: naaee.org/eeepro/resources/urban-ee-essays. These essays explore various perspectives on urban environmental education and may be reprinted/reproduced only with permission from Cornell University Press.

ALEX RUSS is an online course instructor in the Department of Natural Resources at Cornell University.

MARIANNE E. KRASNY is Professor in the Department of Natural Resources at Cornell University. She is first author of *Civic Ecology: Adaptation and Transformation from the Ground Up*.

CORNELL SERIES IN ENVIRONMENTAL EDUCATION

\$26.95 978-1-5017-0775-9 paperback
312 pages, 38 halftones, 3 line figures, 8 tables, 6 x 9



“Urban Environmental Education Review is a fantastic and unprecedented addition to the literature on environmental education. I appreciate the thoughtfulness of the editors in including authors with many different disciplinary lenses on the field, from a wide geographic range (including within, not just between chapters), and who represent a mix of august, experienced, mid-career, and some new-to-the-field researchers. The chapter topics are logical and provide a nice flow to the book, and the prose is accessible and easy to read.”
—Charlotte Clark, Nicholas School of the Environment, Duke University

Connecting the Drops

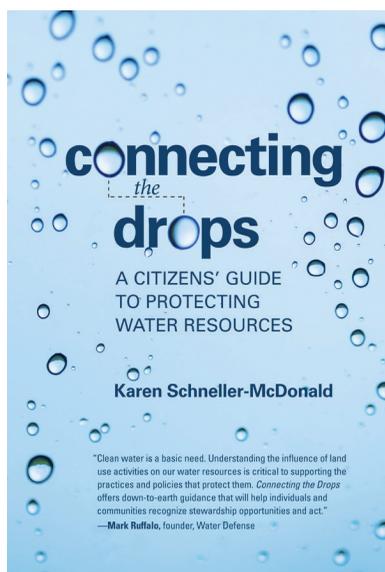
A Citizens' Guide to Protecting Water Resources

KAREN SCHNELLER-McDONALD

The need for improved water resource protection, beginning with grassroots action, is urgent. The water we use depends on networks of wetlands, streams, and watersheds. Land-use activities, however, are changing these natural systems. Often these changes result in ecological damage, flooding, water pollution, and reduced water supply. We need a healthy environment that sustains our personal and community health; we also need vibrant and sustainable economic development that does not destroy the benefits we derive from nature. Our ability to accomplish both depends on how well we can “connect the drops.” In this book, Karen Schneller-McDonald presents the basics of water resource protection: ecology and watershed science; techniques for evaluating environmental impacts; obstacles to protection and how to overcome them; and tips for protection strategies that maximize chances for success.

Schneller-McDonald makes clear the important connections among natural cycles, watersheds, and ecosystems; the benefits they provide; and how specific development activities affect water quality and supply. The methods described in *Connecting the Drops* have broad application in diverse geographic locations. The environmental details may differ, but the methods are the same. For water resource managers and concerned citizens alike, *Connecting the Drops* helps readers interpret scientific information and contextualize news media reports and industry ads—ultimately offering “how to” guidance for developing resource protection strategies. Visit the website for this book at <http://thewetnet.net>.

\$24.95 978-1-5017-0028-6 paperback
288 pages, 6 line figures, 18 tables, 4 maps



“Schneller-McDonald offers an authoritative review of methods for water conservation and use... She touches on ...the harmful effects of dams, acid rain, coal mining, sewage disposal, pesticides, and mercury. A detailed appendix contains checklists for evaluating streams and wetlands: features, conditions, pertinent questions to raise, etc. VERDICT: Highly recommended for environmentalists, resource managers, those concerned with pollution, and naturalists.

—*Library Journal*

“*Connecting the Drops* offers both knowledge and hope; it is an essential guide to action and overcoming the global water crisis.”

—Richard Louv, author of *The Nature Principle* and *Last Child in the Woods*

“Clean water is a basic need. Understanding the influence of land use activities on our water resources is critical to supporting the practices and policies that protect them. *Connecting the Drops* offers down-to-earth guidance that will help individuals and communities recognize stewardship opportunities and act.”

—Mark Ruffalo, founder, Water Defense

Hidden Kingdom

The Insect Life of Costa Rica

PIOTR NASKRECKI

FOREWORD BY E.O. WILSON

Encounter some of the most beautiful creatures in Costa Rica in Piotr Naskrecki's *Hidden Kingdom*. This book is a visual journey into the world of the insects and their relatives that dominate all terrestrial habitats in Costa Rica through their sheer numbers, biomass, and the ecological functions they perform. Naskrecki's stunning photographs serve as both a tool to help identify the insects that a visitor to Costa Rica is likely to encounter, and as an illustration of their diverse behaviors and ecological roles.

Through high-impact imagery and engaging narrative about insects and their evolutionary history, this book, an ideal companion on a visit to Costa Rica, reinforces or awakens in the readers their innate curiosity about the less appreciated elements of life on Earth. Each section of the book presents fascinating and useful facts about Costa Rica's insects. Naskrecki's photographs show the variety of morphological adaptations, survival strategies, and interlocking roles that insects play in tropical ecosystems.

PIOTR NASKRECKI is Associate Director of the E. O. Wilson Biodiversity Laboratory at Gorongosa National Park, Mozambique, and Research Associate at the Museum of Comparative Zoology, Harvard University. He is the author of *The Smaller Majority* and *Relics* and photographer of *A Window on Eternity* by E. O. Wilson. E. O. WILSON is Faculty Emeritus Pellegrino University Professor at Harvard University. He is the author most recently of *Half-Earth*, and his books *The Ants* and *On Human Nature* were both Pulitzer Prize winners.



“Piotr Naskrecki is a master at portraying miniature worlds. He combines two skills that are rarely found in one person: as a conservation biologist, he can speak about his subjects with authority and conviction; as a photographer, he makes them come alive with astonishing close-ups.”

—Frans Lanting, photographer on *The Smaller Majority*

“I continue to be astounded not only by Piotr’s knowledge, but his passion and teaching skills. Over the years, he’s given me new perspectives on the insect world more times than I can count. And now comes a masterwork. And the best part is, it’s written in a conversational tone that’s accessible to people of all ages. This book is a pure pleasure, as well as a great education.”

—Joel Sartore, Founder, *National Geographic Photo Ark*

A ZONA TROPICAL PUBLICATION

\$34.95 978-1-5017-0471-0 paperback
216 pages, color photographs throughout, 10 x 10

The Observation Hive Handbook

Studying Honey Bees at Home

FRANK LINTON

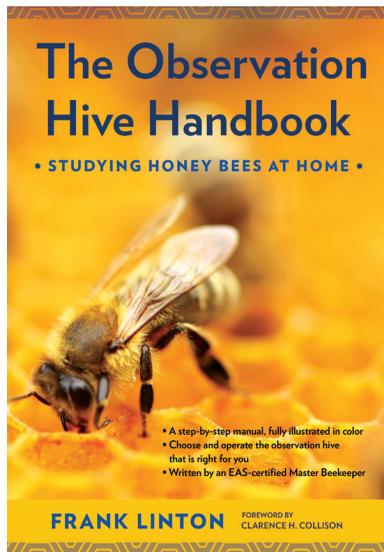
FOREWORD BY CLARENCE H. COLLISON

This book will guide you in selecting an observation hive and choosing a site for it, modifying the hive and the site as needed, installing the hive, working with the hive, and maintaining the hive. It will prepare you to take a temporary portable observation hive to a market, fair, or school. Most importantly, it will describe and illustrate the many ways you can use your observation hive to learn more about honey bees and how to care for them.

- A step-by-step manual, fully illustrated in color
- Choose and operate the observation hive that is right for you
- Written by an EAS-certified Master Beekeeper

FRANK LINTON is an EAS-certified Master Beekeeper who has kept an observation hive in his house since 2005. Retired from his career as an artificial intelligence engineer, he lives in Maryland.

CLARENCE COLLISON is Professor of Entomology and Head of the Department of Entomology and Plant Pathology at Mississippi State University. He is the author of *What Do You Know?*



“Linton, a certified master beekeeper, discusses the various options for constructing an observation hive.... This book is written primarily for experienced beekeepers, offering sound advice for those wishing to set up an observation hive.... Very well-written.”

—Choice

“*The Observation Hive Handbook* is a comprehensive text that provides all the necessary information needed for a beekeeper to select an observation hive design, stock it with bees, maintain it, and enjoy the experience that the hive will provide.”

—Jim Tew, bee specialist, Alabama Cooperative Extension System, Auburn University

“Whether you want to keep an observation hive for yourself or share it with the public, *The Observation Hive Handbook* will be an indispensable companion.”

—Bill Mares, former president of the Vermont Beekeepers Association and the Eastern Apicultural Society

\$24.95 978-1-5017-0726-1 paperback
110 pages, 94 color photographs, 2 line figures, 1 table, 7 x 10

Whales

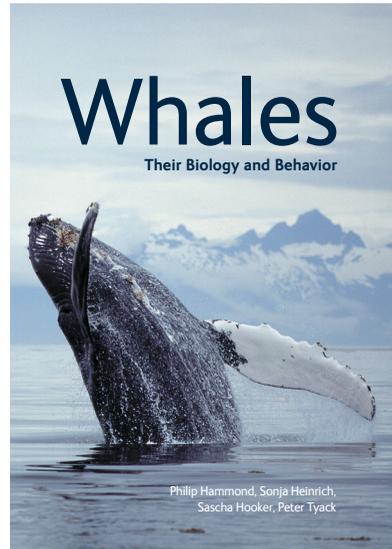
Their Biology and Behavior

PHILIP HAMMOND, SONJA HEINRICH,
SASCHA HOOKER, AND PETER TYACK

This book explores the lives of the world's largest living mammals. Drawing on the latest scientific research, *Whales* describes these incredible animals' evolution from terrestrial to marine mammals, their life cycle, diversity and distribution, and the ecosystems of which they are a part. *Whales* highlights the many extraordinary aspects of these intelligent and social creatures, including the complex vocalizations they use to communicate over vast distances.

Philip Hammond, Sonja Heinrich, Sascha Hooker, and Peter Tyack investigate the role of whales in human culture, from whaling to whale watching, and emphasize how scientists monitor the current threats to whales and the methods they use to conserve their future. Spectacular photographs of whales in the wild reveal the private lives of these fascinating and majestic ocean giants.

PHILIP HAMMOND, SONJA HEINRICH, SASCHA HOOKER, and PETER TYACK are researchers at the Sea Mammal Research Unit based at the University of St Andrews.



“This remarkable book is a rare beast—packing a blue whale-sized amount of information into a porpoise-compact volume. The authors, all researchers at the highly regarded Sea Mammal Research Unit at University of St Andrews, really know their stuff, and it shows in coverage of a wide range of aspects of whale evolution, ecology and, most fascinating of all, whale culture. In addition, *Whales* does not flinch from exploring our, at times, shameful relationship with these compelling animals and the seas and rivers in which they live.”

—Jon Dunn, BBC Wildlife

“The breadth of information and illustrations are excellent... This book provides a great introduction to the world of whales for general readers as well as university students who may be considering a career in research or conservation of these magnificent creatures.”

—*Quarterly Review of Biology*

\$19.95 978-1-5017-1656-0 paperback
144 pages, 101 color photographs, 1 halftone, 13 line figures,
13 maps, 15 graphs, 7.5 x 10

Zoo Ethics

The Challenges of Compassionate Conservation

JENNY GRAY

FOREWORD BY JOEL SARTORE

Zoo Ethics examines the workings of modern zoos and considers the core ethical challenges faced by people who choose to hold and display animals in zoos, aquariums, or sanctuaries. Jenny Gray asserts the value of animal life and assesses the impacts of modern zoos, including the costs to animals in terms of welfare and the loss of liberty. Gray highlights contemporary events, including the killing of the gorilla Harambe at the Cincinnati Zoo in May 2016, the widely publicized culling of a young giraffe in the Copenhagen Zoo in 2014, and the investigation of the Tiger Temple in western Thailand.

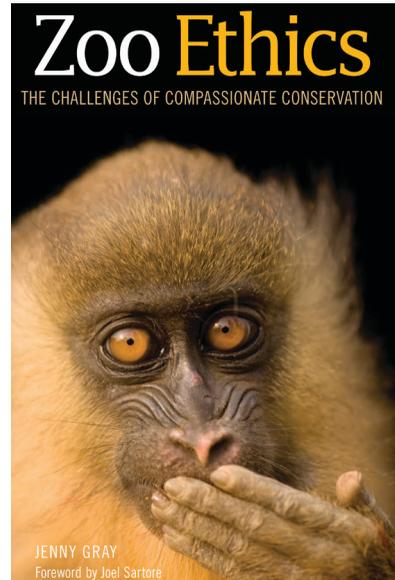
Gray describes the positive welfare and health outcomes of many animals held in zoos, the increased attention and protection for their species in the wild, and the enjoyment and education of the people who visit zoos. *Zoo Ethics* will empower students of animal ethics and veterinary sciences, zoo and aquarium professionals, and interested zoo visitors to have an informed view of the challenges of compassionate conservation and to develop their own ethical positions.

JENNY GRAY is the Chief Executive Officer of Zoos Victoria and will assume the role of President of the World Association of Zoos and Aquariums in 2017.

JOEL SARTORE is a photographer, speaker, author, teacher, and conservationist. A regular contributor to *National Geographic*, he is the author of *The Photo Ark*.

COPUBLISHED WITH CSIRO

\$45.00 978-1-5017-1442-9 hardcover
256 pages, 6 x 9



“A compelling and detailed exploration of the ethical management of zoos and of zoo animal welfare. *Zoo Ethics* is essential reading for zoo professionals and indeed anyone with an interest in animal ethics.”

—Susan Hunt, President, World Association of Zoos and Aquariums

“*Zoo Ethics* is a thought-provoking, balanced discussion of the issues and is both an interesting and challenging read for zoo and aquarium professionals.”

—Kristin Vehrs, Executive Director, Association of Zoos and Aquariums

“A meticulous examination of ethical considerations pertaining to zoos and their practices.... A provocative, educational resource for students and professionals alike.”

—*Choice*

“An exercise in applied ethics.... This book succeeds in giving a sense of the depth of the problem of defining and operating an ethical zoo, and as the author concludes: “It is possible for zoos to be operated ethically. Yet it is not easy.”

—*Quarterly Review of Biology*

Vanished and Vanishing Parrots

Profiling Extinct and Endangered Species

JOSEPH M. FORSHAW

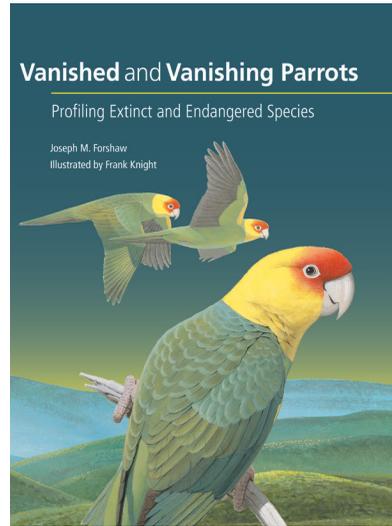
FOREWORD BY NOEL F. R. SNYDER

ILLUSTRATED BY FRANK KNIGHT

Joseph M. Forshaw, one of the world's leading authorities on parrots, calls attention to the threats they face: They are one of the most endangered groups of birds, with a growing number of species nearing extinction. The main threats arise from habitat loss through deforestation and agricultural development and from the taking of birds for the international live-bird trade.

Vanished and Vanishing Parrots brings together information on species that have become extinct in historical times with information on species that are in danger of becoming extinct to increase public awareness of the plight of these magnificent birds. Vivid color plates by the wildlife artist Frank Knight draw attention to the spectacular species that we have lost or that could be lost. No other book provides such a timely and thorough scientific treatment of endangered and extinct parrots.

JOSEPH M. FORSHAW has retired as Head of Wildlife Section, Australian National Parks and Wildlife Service. He is a Research Associate in the Department of Ornithology at the Australian Museum in Sydney and Corresponding Fellow of the American Ornithologists Union. He is the author of many books, including *Field Guide to Parrots of the World* and *Parrots of the World: An Identification Guide*.



COPUBLISHED WITH CSIRO

\$95.00 978-1-5017-0469-7 hardcover
344 pages, 17 illustrations, 79 maps, 59 color photographs,
12 x 8.5

Raptors

The Curious Nature of Diurnal Birds of Prey

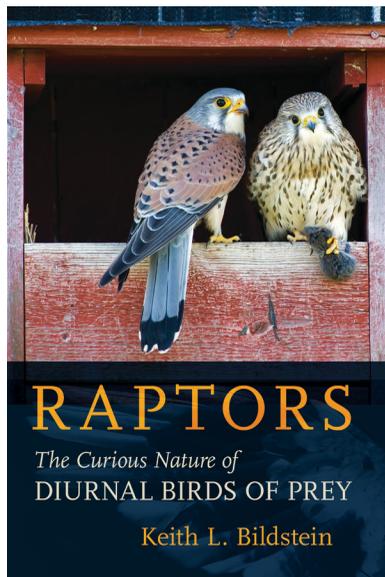
KEITH L. BILDSTEIN

Raptors are formally classified into five families and include birds—such as eagles, ospreys, kites, true hawks, buzzards, harriers, vultures, and falcons—that are familiar and recognized by many observers. These diurnal birds of prey are found on every continent except Antarctica and can thrive in seemingly inhospitable spots such as deserts and the tundra. They have powerful talons and hooked beaks for cutting and tearing meat, and keen binocular vision to aid in their hunting prowess. Because of their large size, distinctive feeding habits, and long-distance flight patterns, raptors intrigue humans and have been the subject of much general interest as well as extensive scientific research.

Keith L. Bildstein has watched and studied raptors on five continents and is well prepared to explain their critical importance, not only as ecological entities but also as inspirational tokens across natural and human-dominated landscapes. His book offers a comprehensive and accessible account of raptors, including their evolutionary history, their relationships to other groups of birds, their sensory abilities, their general natural history, their breeding ecology and feeding behavior, and threats to their survival in a human-dominated world. Biologically sound but readable, *Raptors* is a nontechnical overview of this captivating group. It will allow naturalists, birders, hawk-watchers, science educators, schoolchildren, and the general public, along with new students in the field of raptor biology, to understand and appreciate these birds, and in so doing better protect them.

KEITH L. BILDSTEIN is Sarkis Acopian Director of Conservation Science at Hawk Mountain Sanctuary. He is the author of *Migrating Raptors of the World: Their Ecology and Conservation*, also from Cornell, and *White Ibis: Wetland Wanderer*, and coauthor and coeditor of many books.

\$35.00 978-1-5017-0579-3 hardcover
336 pages, 8-page color insert, 8 maps, 11 tables, 1 chart, 6 x 9



“*Raptors* provides one-stop shopping for anyone interested in how diurnal birds of prey go about their lives. A tour de force that benefits both from its comprehensiveness and from Bildstein’s use of his personal experiences to illuminate raptor biology.”

—Alan Poole, author of *Ospreys: A Natural and Unnatural History*

“*Raptors* is a stunning overview of its subject and will be welcomed by students, birders, and biologists.”

—Allen Fish, Director, Golden Gate Raptor Observatory

“A clarifying perspective on a very complex subject.... Easy to read, yet still maintains a very high level of scientific objectivity.”

—*The Canadian Field-Naturalist*

“A superb summary of biological knowledge of birds of prey worldwide.... A very fine distillation of current knowledge and theories...that will keep any enquiring reader entertained and informed.”

—*Birdwatch*

“Any individual keenly interested in birds of prey will find this an entertaining read.”

—*Choice*

Birds of Aruba, Bonaire, and Curaçao

A Site and Field Guide

JEFFREY V. WELLS, ALLISON CHILDS WELLS,
AND ROBERT DEAN

Birds of Aruba, Bonaire, and Curaçao showcases the more than 280 species seen on Aruba, Bonaire, and Curaçao and provides descriptions of and directions to the best places to bird, from the famous white sand beaches to hidden watering holes to the majestic national parks.

Colorful introductory sections provide readers with a brief natural history of the islands, detailing the geography, geology, and general ecology of each. In the site guide that follows, the authors share their more than two decades of experience in the region, providing directions to the best birding spots. Clear, easy-to-read maps accompany each site description, along with notes about the species that birders are likely to find. The identification section is arranged in classic field guide format and offers vivid descriptions of each bird, along with tips on how to identify them by sight and sound. The accounts also include current status and seasonality, if relevant, and common names in English, Dutch, and Papiamentu. The color plates feature the beautiful work of illustrator Robert Dean.

The final section, on conservation, raises awareness about threats facing the birds and the habitats on which they rely and summarizes conservation initiatives and needs, offering recommendations for each island.

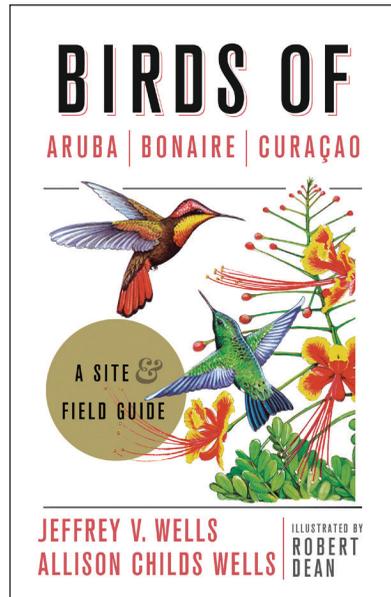
JEFFREY V. WELLS is the author of *Birder's Conservation Handbook: 100 North American Birds at Risk* and editor of *Boreal Birds of North America*.

ALLISON CHILDS WELLS is Senior Director of Public Affairs at the Natural Resources Council of Maine. She is coauthor, with Jeffrey V. Wells, of *Maine's Favorite Birds* and *Birds of Sapsucker Woods*.

ROBERT DEAN is the illustrator of *The Birds of Costa Rica: A Field Guide*, *The Birds of Panama: A Field Guide*, and *The Wildlife of Costa Rica: A Field Guide*, all from Cornell.

A ZONA TROPICAL PUBLICATION

\$39.95 978-1-5017-0107-8 paperback
488 pages, color throughout, 5.5 x 8.5



“This book is a superb field guide, a site guide with colorful maps, and a well-illustrated introduction to the ecology and conservation of Aruba, Bonaire, and Curaçao, all in one package. It raises the bar significantly for birding books.”

—Scott Weidensaul, author of *Living on the Wind* (Finalist, Pulitzer Prize in General Nonfiction)

“Beautifully designed and filled with helpful information, this outstanding new guide will transform the whole approach to birding on these alluring islands.”

—Kenn Kaufman, author of *Kaufman Field Guide to Birds of North America*

“Captures the spirit of birding on three of the most tempting tropical islands around.”

—Robert S. Ridgely, President, Rainforest Trust, coauthor of *Wildlife Conservation Society Birds of Brazil*

“Belongs on every keen birder’s bookshelf. It is well designed, clear, and above all useful. I am particularly impressed with the way that it helps direct people to the best birding sites.”

—Kalli De Meyer, Executive Director, Dutch Caribbean Nature Alliance

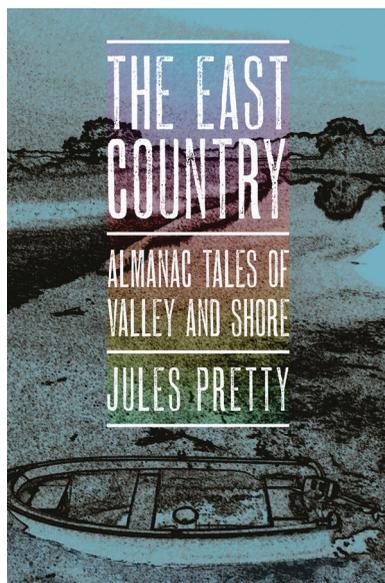
The East Country

Almanac Tales of Valley and Shore

JULES PRETTY

The East Country is a work of creative nonfiction in which the acclaimed nature writer Jules Pretty integrates memoir, natural history, cultural critique, and spiritual reflection into a single compelling narrative. Pretty frames his book around Aldo Leopold and his classic *Sand Country Almanac*, bringing Leopold's ethic—that some could live without nature but most should not—into the twenty-first century. In *The East Country*, Pretty follows the seasons through seventy-four tales set in a variety of landscapes from valley to salty shore. Pretty convinces us that we should all develop long attachments to the local, observing that the land can change us for the better.

JULES PRETTY is Professor of Environment and Society at the University of Essex. He is the author of many books, including *The Edge of Extinction* and *This Luminous Coast*, both from Comstock Publishing Associates, and *The Earth Only Endures*. He is coeditor most recently of *Green Exercise*.



“[Pretty’s] celebration of the landscape incorporates memoir and poetry, natural history and spiritual reflection, but also a critique of where current policies are leading us. ‘Nature will carry on regardless,’ he suggest. ‘It is just that we might not.’”

—*Times Higher Education*

“In *The East Country* Jules Pretty unites his two distinguished careers—as a biologist and as a writer in the broad fields of nature, place and landscape—to encourage ‘long attachments to the local’ as profoundly valuable undertakings.”

—Robert Macfarlane, author of *The Old Ways* and *Landmarks*

“A brave and visionary book.”

—Douglas E. Christie, author of *The Blue Sapphire of the Mind*

“A marvelous book. There is something mystical about it, coming perhaps from the sense of reverence that Jules Pretty accords the natural world.”

—Astrid E. J. Ogilvie, coeditor of *The Iceberg in the Mist*

\$17.95 978-1-5017-0933-3 paperback
166 pages, 14 halftones, 6 x 9

The Eye of the Sandpiper

Stories from the Living World

BRANDON KEIM

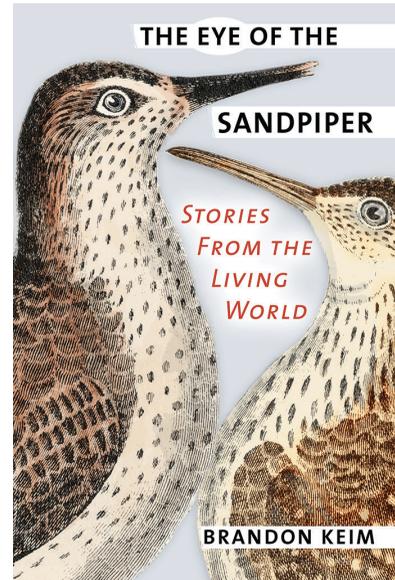
In *The Eye of the Sandpiper*, Brandon Keim pairs cutting-edge science with a deep love of nature, conveying his insights in prose that is both accessible and beautiful. In an elegant, thoughtful tour of nature in the twenty-first century, Keim continues in the tradition of Lewis Thomas, Stephen Jay Gould, and David Quammen, reporting from the frontiers of science while celebrating the natural world's wonders and posing new questions about our relationship to the rest of life on Earth.

The stories in *The Eye of the Sandpiper* are arranged in four thematic sections. The first is evolutionary and ecological dynamics, from how patterns form on butterfly wings to the ecological importance of oft-reviled lampreys. The second section explores the inner lives of animals: empathy in rats, emotions in honeybees, spirituality in chimpanzees. The third section contains stories of people acting on insights both ecological and ethological: nourishing blighted rivers, caring for injured pigeons at a hospital for wild birds, and demanding legal rights for primates. The fourth section unites ecology and ethology in discussions of ethics: how we should think about and behave toward nature, and the place of wildness in a world in which space for wilderness is shrinking.

By appreciating the nonhuman world more fully, Keim writes, "I hope people will also act in ways that nourish rather than impoverish its life. The solution will come from a love of nature rather than chastisement or lamentation."

BRANDON KEIM is a freelance journalist whose work has appeared in publications including *The Atlantic*, *WIRED*, *National Geographic News*, *The Guardian*, *Audubon Magazine*, *Grist*, and *Mother Jones*, among others.

\$19.95 978-1-5017-0772-8 paperback
266 pages, 6 x 9



"The frontier of writing about animals is the attempt to go deeper from the species to the individuals, their lives as they live them. *The Eye of the Sandpiper* makes that penetration a journey. I wanted to speed through this book, but I kept slowing down because it was too engaging to rush. The knowledgeable Brandon Keim is as much a thinker as he is a reporter."

—Carl Safina, author of *Beyond Words: What Animals Think and Feel*

"Brandon Keim is an outstanding writer who combines science, compassion and heart. He builds a vitally important bridge between old-fashioned love of nature and the rapidly growing science of animal intelligence and animal emotions."

—Marc Bekoff, author of *Rewilding Our Hearts*

"Brandon Keim is one of our finest chroniclers of nature. His beautiful writing radiates with his deep love for the world around us and the creatures we share it with."

—*The Atlantic*

The Marine World

A Natural History of Ocean Life

FRANCES DIPPER

FOREWORD BY MARK CARWARDINE

The Marine World is a book for everyone with an interest in the ocean, from the marine biologist or student wanting expert knowledge of a particular group to the naturalist or diver exploring the seashore and beyond.

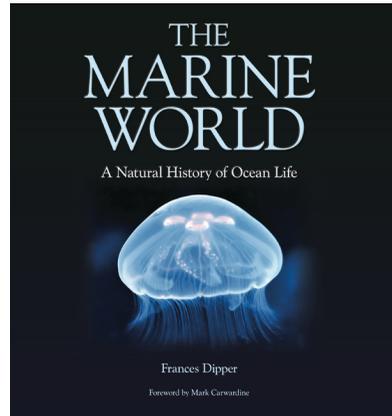
With color illustrations, line drawings, more than 1,500 color photographs, and clear accessible text, this book encompasses all those organisms that live in, on, and around the ocean, bringing together in a single text everything from the minuscule to the immense. It includes sections on all but the most obscure marine groups, covering invertebrate phyla from sponges to sea squirts, as well as plants, fungi, bacteria, fish, reptiles, mammals, and birds. It incorporates information on the identification, distribution, structure, biology, ecology, classification, and conservation of each group.

Today global warming, overfishing, ocean acidification, and pollution are just a few of the many threats faced by ocean life. Without knowledge of the animals, plants, and other organisms that live in the marine world, we cannot hope to support or implement successful conservation and management measures, or truly appreciate the incredible wealth and variety of marine life.

The Marine World is the product of a lifetime spent by Frances Dipper observing and studying marine organisms the world over. It has been brought to colorful life by a myriad of enthusiastic underwater photographers and by Marc Dando, the renowned natural history illustrator.

FRANCES DIPPER is an author, lecturer, and independent marine consultant. She is the author of books including *Extraordinary Fish* and *Guide to the Oceans*.

MARK CARWARDINE is a zoologist, the author of more than fifty books on wildlife and conservation, a radio and TV presenter, a wildlife photographer, and a wildlife tour operator.



\$59.95 978-1-5017-0989-0 hardcover
544 pages, color throughout, 8.5 x 9

Do Elephants Have Knees?

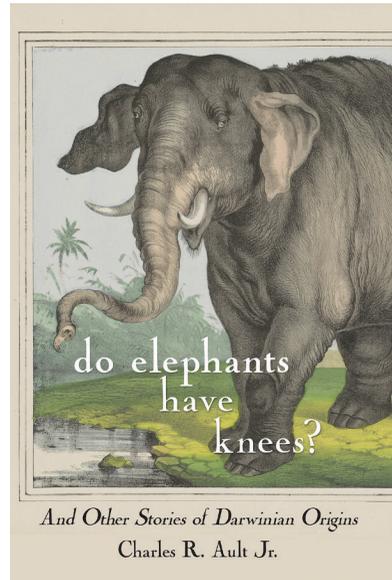
And Other Stories of Darwinian Origins

CHARLES R. AULT JR.

Thinking whimsically makes serious science accessible. *Do Elephants Have Knees?* invites readers into serious appreciation of Darwinian histories by deploying the playful thinking found in children's books. Charles R. Ault Jr. weds children's literature to recent research in paleontology and evolutionary biology. Inquiring into the origin of origins stories, Ault presents three portraits of Charles Darwin—curious child, twentysomething adventurer, and elderly worm scientist. Essays focusing on the origins of tetrapods, elephants, whales, and birds explain fundamental Darwinian concepts (natural selection, for example) with examples of fossil history and comparative anatomy.

The imagery of the children's story offers a way to remember and recreate scientific discoveries. Charles Darwin mused about duck beaks and swimming bears as he imagined a pathway for the origin of baleen. A "bearduck" chimera may be a stretch, but the science linking not just cows but also whales to moose through shared ancestry has great merit. By calling attention to surprising and serendipitous echoes between children's stories and challenging science, Ault demonstrates how playful thinking opens the doors to an understanding of evolutionary thought.

CHARLES R. AULT JR. is Professor Emeritus at the Lewis & Clark Graduate School of Education and Counseling.



"In *Do Elephants Have Knees?*, Charles R. Ault Jr. takes a unique approach, bringing together juvenile literature with a wide range of literature from science, history, education, and psychology. This is an important work for science education because the author weaves together scientific knowledge with the appropriate historical context. This book will find an audience not only among science educators but also among well-educated and curiosity-driven general readers who thrive on connections among disciplines."

—Roberta Johnson, Executive Director,
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Association

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240 pages, 11 halftones, 26 line figures, 6 x 9

Origins

The Search for Our Prehistoric Past

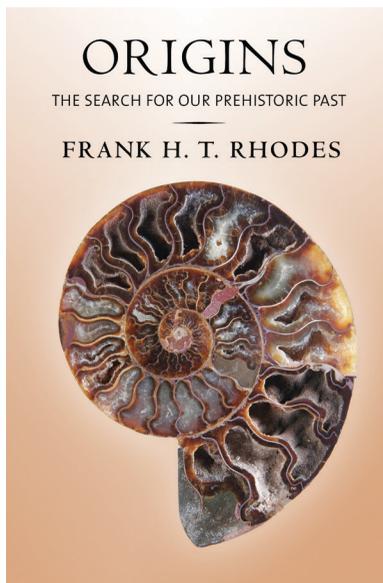
FRANK H. T. RHODES

In *Origins*, Frank H. T. Rhodes explores the origin and evolution of living things, the changing environments in which they have developed, and the challenges we now face on an increasingly crowded and polluted planet. Rhodes argues that the future well-being of our burgeoning population depends in no small part on our understanding of life's past, its long and slow development, and its intricate interdependencies.

Rhodes's accessible and extensively illustrated treatment of the origins narrative describes the nature of the search for prehistoric life, the significance of geologic time, the origin of life, the emergence and spread of flora and fauna, the evolution of primates, and the emergence of modern humans.

FRANK H. T. RHODES is President Emeritus of Cornell University. A geologist by training, he has published numerous works on geology and education including the books *Earth: A Tenant's Manual* and *The Creation of the Future: The Role of the American University* (both from Cornell), *The Evolution of Life*, and *Language of the Earth*. He holds the Bigsby Medal of the Geological Society, the Ian Campbell Medal of the American Geological Institute, and the Clark-Kerr Medal of the University of California–Berkeley. He holds more than thirty honorary degrees from universities both in the United States and abroad.

\$29.95 978-1-5017-0244-0 hardcover
336 pages, 69 halftones, 1 line figure, 1 map, 4 tables,
2 charts, 6 x 9



“In *Origins*, an overview of the history of life on Earth for the nonspecialist reader, Frank H. T. Rhodes starts with origins and traces a winding path to human evolution. This book is a highly readable treatment of an important and interesting topic.”

—Michael Foote, University of Chicago

“In this compact and elegant volume, Frank H. T. Rhodes does far more than beautifully updating his classic 1962 book *The Evolution of Life*. He provides a new narrative of the history of life on Earth for a new set of generations. He covers familiar territory with a fresh and lyrical prose that reveals new insights into both species past and present and the people who have studied them. This is a perfect introduction by a virtuoso.”

—Warren D. Allmon, Director,
Paleontological Research Institution

Mosses, Liverworts, and Hornworts

A Field Guide to Common Bryophytes of the Northeast

RALPH POPE

Mosses, liverworts, and hornworts are found throughout the world in a variety of habitats. They flourish particularly well in moist, humid forests, filling many ecological roles. They provide seedbeds for the larger plants of the community and homes to countless arthropods, they capture and recycle nutrients that are washed with rainwater from the canopy, and they bind the soil to keep it from eroding. This photo-based field guide to the more common or distinctive bryophytes of northeastern North America gives beginners the tools they need to identify most specimens without using a compound microscope. Ralph Pope's inviting text and helpful photographs cover not only the "true" mosses but also the Sphagnaceae (the peat mosses), liverworts, and hornworts.

The heart of any field guide is the ability to narrow down a large number of possibilities to a single species, and this book does that with a variety of keying strategies. Traditional dichotomous keys are included, and there are also "quick" keys based on habitat and special morphological characteristics. The organization of the species pages is by plant family, an arrangement likely to resonate with readers with some plant background or botanical interest. *Mosses, Liverworts, and Hornworts* also features information on collecting, preserving, and identifying specimens to help hikers, naturalists, botanists, and gardeners find their way into this beautiful miniature world. Sections on bryophyte biology and ecology provide taxonomic and ecological context.

RALPH POPE is the author of *Lichens above Treeline: A Hiker's Guide to Alpine Zone Lichens of the Northeastern United States*.

\$24.95 978-1-5017-0078-1 paperback
352 pages, 619 color photographs, 182 maps, 153 line figures, 6 x 9



MOSSES, LIVERWORTS, and HORNWORTS

RALPH POPE

A FIELD GUIDE to Common Bryophytes of the Northeast



"The most complete and the best illustrated field guide to mosses and liverworts in the Northeast. The photographs are excellent and the text both very useful and interesting. It contains the common and many uncommon mosses and even the rare hornworts, as well as good ecological pointers to help in finding them all."

—Nancy Slack, coeditor of *Bryophyte Ecology and Climate Change*

"*Mosses, Liverworts, and Hornworts* is scientifically accurate and accessible to an audience of amateur naturalists as well as to botanical professionals. The scope and breadth are right on target. The species descriptions are accurate and vivid. The use of habitat types, color, scale, and texture in identifying species is very helpful."

—Robin W. Kimmerer, author of *Gathering Moss and Braiding Sweetgrass*

"This authoritative and user-friendly book consists of well-illustrated treatments of each species. I find the comparison to similar species hugely helpful. Mossing adventures will be all the more satisfying with this book along for company."

—Alison C. Dibble, University of Maine

Amphibians of Costa Rica

A Field Guide

TWAN LEENDERS

Amphibians of Costa Rica is the first in-depth field guide to all 206 species of amphibians known to occur in Costa Rica or within walking distance of its borders. A diminutive nation with abundant natural wealth, the country is host to 146 species of frogs and toads. Frogs of gemlike beauty and dizzying variety abound: some species can fit on the end of a human finger; others would take two hands to hold. In the rainforests, you can find frogs capable of gliding from high in the treetops to the forest floor, some that carry their eggs or their tadpoles around on their back, and others that secrete glue-like substances from their skin that are capable of sticking shut the mouth of attacking snakes.

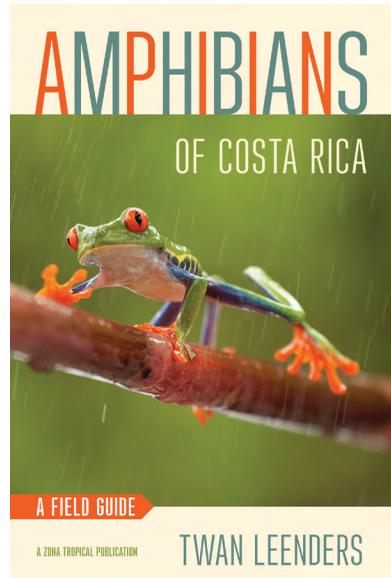
Costa Rica is also home to fifty-three species of lungless salamanders, whose unique adaptations and abilities have allowed them to colonize habitats inaccessible to other amphibians. In addition, this guide includes the caecilians—bizarre and highly specialized creatures that somewhat resemble giant worms.

Author, photographer, and conservation biologist Twan Leenders has been studying the herpetofauna of Central America for more than twenty years. Leenders and his team of researchers have traipsed the rainforests, dry forests, and swamps of Costa Rica to put together the richest collection of photographs of Costa Rican herpetofauna known to exist. In addition to hundreds of photographs, range maps, morphological illustrations, and precise descriptions of key field characteristics, *Amphibians of Costa Rica* offers a wealth of natural history information, describing prey and predators, breeding strategies, habitat, and conservation status.

TWAN LEENDERS is President of the Roger Tory Peterson Institute of Natural History in Jamestown, New York. He is coauthor of *The Wildlife of Costa Rica: A Field Guide*, also from Cornell, and author of *A Guide to Amphibians and Reptiles of Costa Rica*.

A ZONA TROPICAL PUBLICATION

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“Beautifully illustrated, with loads of great information and clearly defined field marks for each species, this groundbreaking book is destined to become the go-to guide to the amphibians of Costa Rica.”

—Clay Bolt, natural history photographer and cofounder of Meet Your Neighbours

“*Amphibians of Costa Rica* is highly informative and visually appealing. The use of drawings, photographs, and maps for each species account makes this a uniquely valuable reference.”

—Greg Watkins-Colwell, Peabody Museum of Natural History, Yale University

Rays of the World

EDITED BY PETER R. LAST, WILLIAM T. WHITE, MARCELO R. DE CARVALHO, BERNARD SERET, MATTHIAS F. W. STEHMANN, AND GAVIN J. P. NAYLOR

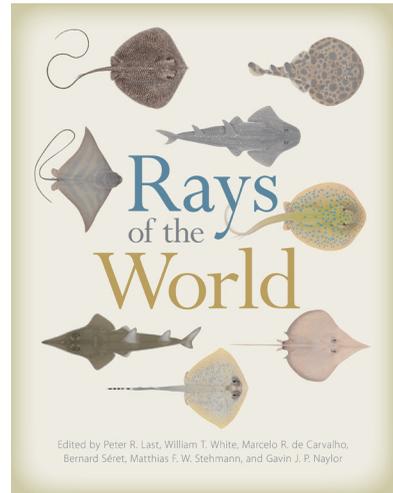
The first cousins of sharks, rays are among the largest fishes in the sea and have colonized all oceans. They also share with sharks many life history traits—all are carnivores or scavengers—and many morphological and anatomical characteristics. There are six families and 633 valid named species of rays, but additional undescribed species exist for many groups. Our knowledge of many of the ray species is based on only a small number of individuals, and few of them have been researched well enough to gain even a basic understanding of their biology and life history.

The largely unconstrained growth in the trade of rays for food, fins, leather, and curios; low productivity of most ray species; and general lack of management of their fisheries has led to growing concern over the sustainability of stocks throughout the world. *Rays of the World* is the first complete pictorial atlas of the world's ray fauna and features paintings of more than six hundred species by the fish artist Lindsay Marshall. A valuable collection of paintings of all living rays (as well as sharks) has been compiled as part of a multinational research initiative (Chondrichthyan Tree of Life Project) to gain a better understanding of the diversity and evolution of this group.

PETER R. LAST is a senior principal research scientist with CSIRO National Research Collections and former head of the Australian National Fish Collection. WILLIAM T. WHITE is the senior curator of the CSIRO Australian National Fish Collection, Hobart. MARCELO R. DE CARVALHO is a professor in the Department of Biology at University of São Paulo. He is also a Research Associate at the American Museum of Natural History. BERNARD SERET is a consultant ichthyologist and shark expert, formerly at the National Museum of Natural History in Paris. MATTHIAS F. W. STEHMANN is a retired ichthyologist at the Zoological Museum of Hamburg. GAVIN J. P. NAYLOR is professor of biology at the College of Charleston.

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832 pages, color throughout, 8.3 x 11



“This is a must have book for anyone with an interest in chondrichthyans, and should find a place in the libraries of any serious ichthyologist. The book is certainly not the last word on this group, but rather as the editors themselves commented on in the introduction, is a beginning to lay the groundwork for future research on this group of fishes.”

—*Environmental Biology of Fishes*

“Overall, this was a tremendous effort and the editors and illustrator should be commended. This is a must have book for anyone with an interest in chondrichthyans, and should find a place in the libraries of any serious ichthyologist.”

—*The Quarterly Review of Biology*

Trees

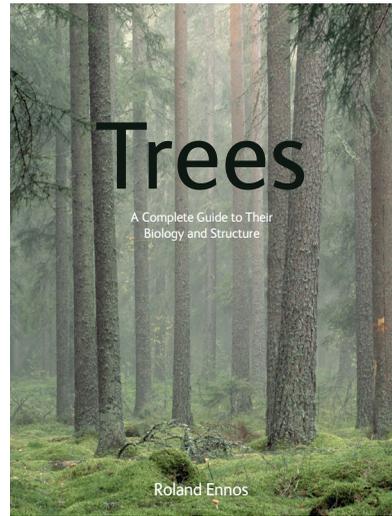
A Complete Guide to Their Biology and Structure

ROLAND ENNOS

Trees are vital components of the landscape and have been exploited by humans since the beginning of our history. They cover huge areas of the globe, from the rainforests of the central tropics to the conifer forests of the subarctic, and from high up mountains right down to the seashore.

Roland Ennos allows readers to better understand trees and their structure by answering questions that include: How did trees evolve? How do they stand up? Why are there so many different types? How and why do we use them? He also explores the evolution of the first trees to the enormous diversity of tree life today. Illustrated with more than 120 stunning color images from around the world, *Trees* provides fascinating insights into the biology of these magnificent plants.

ROLAND ENNOS is Professor of Biological Sciences at the School of Biological, Biomedical and Environmental Sciences at the University of Hull. His research has taken him to forests around the world, which has provided the inspiration for this book.



“This book is a wonderful introduction and guide to the history, structure, biology, and diversity of trees. . . . There are many color illustrations, photographs, and maps throughout, along with a glossary and further information section. This book is an excellent first book on the topic for K-12 education, and would be a nice coffee table addition as well.”

—Bradford Lee Eden, *American Reference Books Annual Online*

“An accessible introduction to one of the wonders of the natural world—an intelligent, inspiring read for all nature enthusiasts.”

—*New Scientist*

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128 pages, 104 color photographs, 7 halftones, 16 line figures, 6 maps, 3 graphs, 10 x 7.5

Wildlife Conservation Society Birds of Brazil

The Atlantic Forest of Southeast Brazil,
including São Paulo and Rio de Janeiro

ROBERT S. RIDGELY, JOHN A. GWYNNE, GUY
TUDOR, AND MARTHA ARGEL

Brazil is the fifth largest country in the world and is one of the planet's richest places for bird diversity, especially when it comes to the number of endemic species. Brazil's Atlantic Forest region is one of the most dazzling of all. Immediately surrounding São Paulo and Rio de Janeiro, this area of Brazil is also relatively accessible to birders from around the world.

With the *Birds of Brazil* field guide series, the Wildlife Conservation Society brings together a top international team to do justice to the incredible diversity of Brazilian birds. This second guide in the series presents 927 bird species, 863 illustrated, that occur in just the southeastern Atlantic Forest biome (Mata Atlântica in Portuguese). Of these species, 140 are endemic and 105 near endemic to just this region; 83 of these are threatened. Modern and compact, this field guide provides illustrations of unparalleled quality, key field marks, and regional range maps to facilitate easy recognition of all species normally occurring in this vibrant and critically important area of Brazil.

ROBERT S. RIDGELY is president of Rainforest Trust. He is the coauthor of *Birds of Ecuador*, also from Cornell, and author of *The Birds of South America*, *Field Guide to the Songbirds of South America*, and *A Guide to the Birds of Panama*.

JOHN A. GWYNNE is former Chief Creative Officer of the Wildlife Conservation Society. He is an artist of books including *Field Guide to the Birds of Panama* and *Birds of Venezuela*.

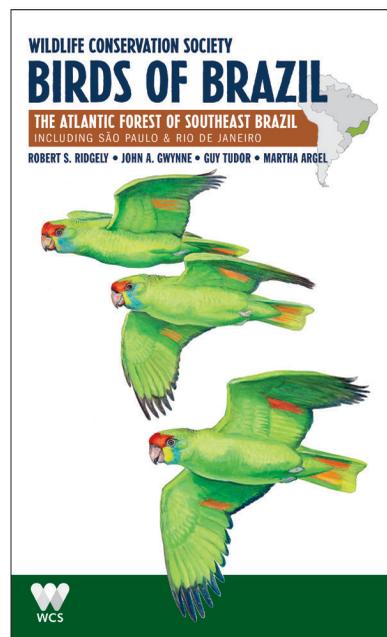
GUY TUDOR is the Neotropics' most acclaimed bird artist, a MacArthur fellow, and principal illustrator of many birding books.

MARTHA ARGEL is a widely known Brazilian ornithologist and author of multiple books on science.

Ridgely, Gwynne, Tudor, and Argel are coauthors of *Wildlife Conservation Society Birds of Brazil: The Pantanal and Cerrado of Central Brazil*.

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“There is no doubt that the Wildlife Conservation Society guide is the best yet to Brazilian birds.”

—*Cotinga*

“This, the much-awaited second in a series of handily sized guides to the world's fifth-largest country, builds strongly on the undoubted success of the first, to the Pantanal and Cerrado region. In many ways, it is even more needed, covering as it does the epicenter of the Atlantic Forest, where single country and biome endemics abound, but also that region of Brazil is blessed with most active birders. The latest offering from the Ridgely et al. team is a godsend. Birding in Brazil has unquestionably never been easier.”

—*Neotropical Birding*

Research in Outdoor Education

EDITED BY TIM O'CONNELL AND
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Research in Outdoor Education is a peer-reviewed, scholarly journal seeking to support and further outdoor education and its goals, including personal growth and moral development, team building and cooperation, outdoor knowledge and skill development, environmental awareness, education and

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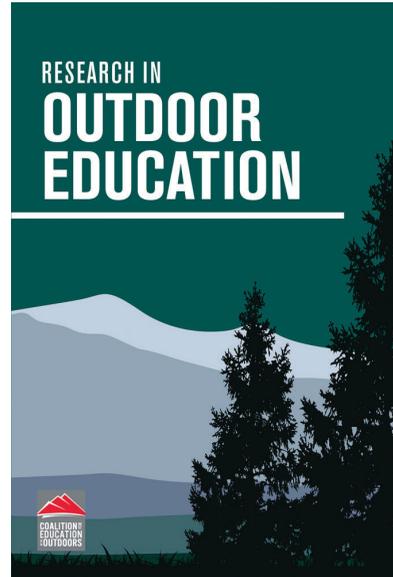
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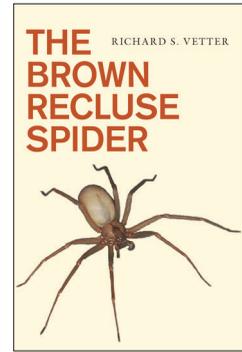
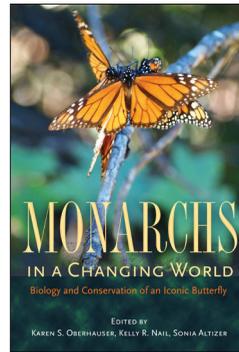
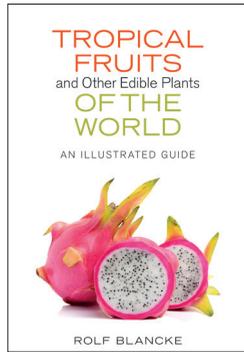
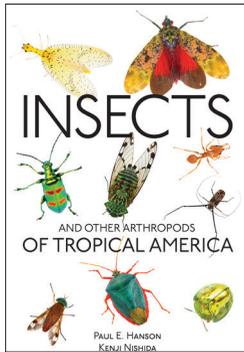
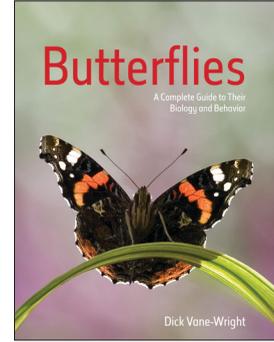
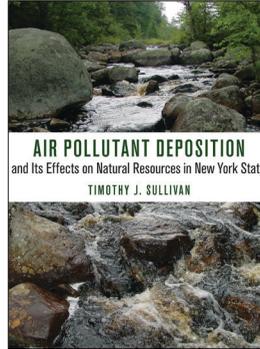
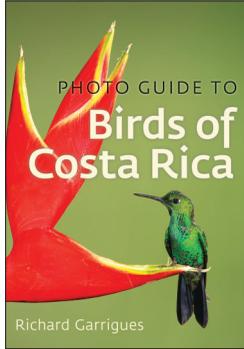


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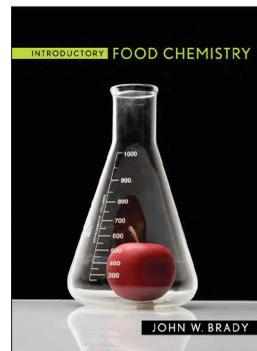
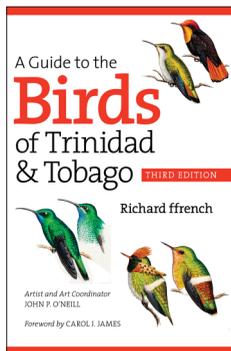
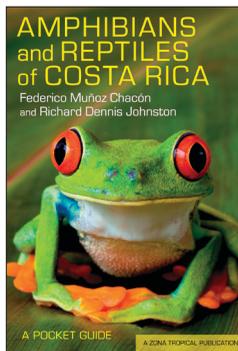
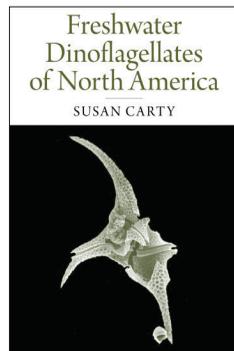
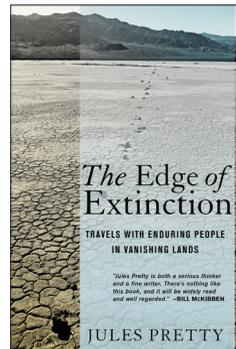
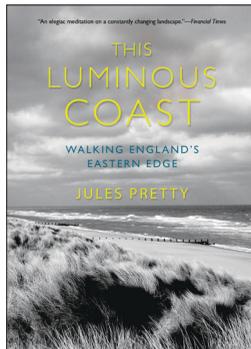
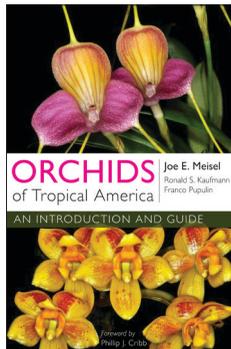
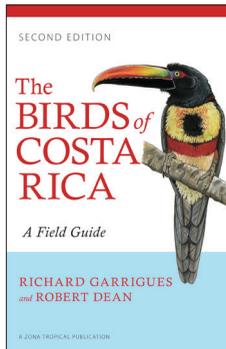
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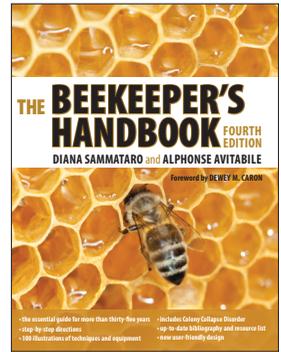
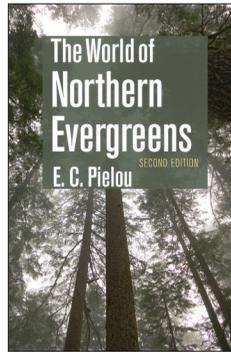
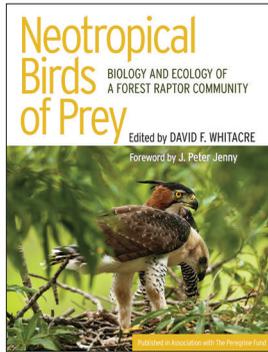
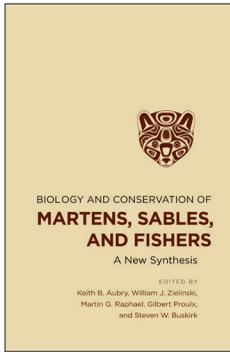
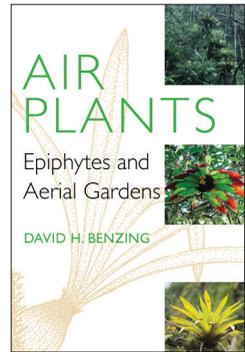
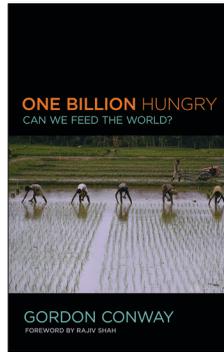
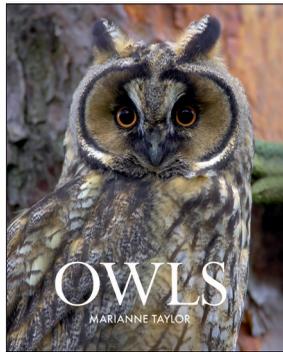
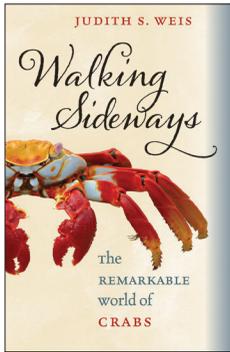
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