

CHANGING
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CHANGING

**THE WORLD
ONE BOOK
AT A TIME**

CHANGING
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Comstock Publishing Associates
An Imprint of Cornell University Press

Welcome to our new-look Comstock Publishing Associates annual imprint catalog.

As part of our 2020 Experience we're shifting the approach to this catalog so that you get more from it. All our forthcoming, new, and recent books published in nature and life sciences are here, of course, but there's other content worth checking out, too.

Mixed in with the book descriptions are articles written by some of our authors and question and answer sessions with some, too. The point of these pieces of content is to give you a little more sense of who our authors are and what makes their books fascinating. It's all part of the experience of being part of Comstock and CUP family.

You can find contact information for Kitty Liu, our acquiring editor for Comstock Publishing Associates, on the last page of this catalog or on our website.

Keep an eye out of these two symbols:  
If you see them it means there is a podcast and/or video from that author. If you're viewing this catalog on ISSUU you can click the symbol to listen or watch. Otherwise, download the podcast from your preferred platform or watch the video on YouTube.

Enjoy the new look!



Kitty

When Birds Are Near

Dispatches from Contemporary Writers

EDITED BY SUSAN FOX ROGERS

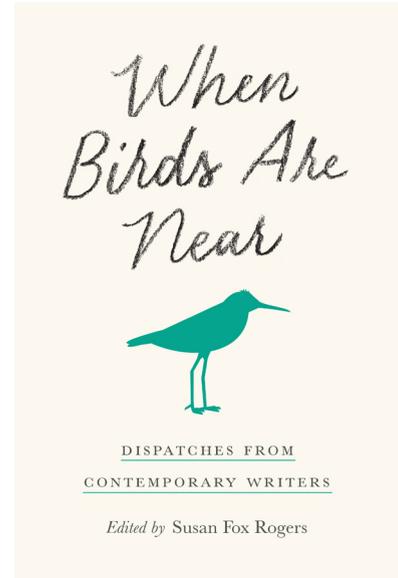
In this dazzling literary collection, writers explore and celebrate their lives with and love for birds—detailing experiences from Alaska to Bermuda, South Dakota to Panama. In *When Birds are Near*, fresh new voices as well as seasoned authors offer tales of perseverance, adventure, and fun; whether taking us on a journey down Highway 1 to see a rare Condor, fighting the destruction of our grasslands, or simply watching the feeder from a kitchen window.

But these essays are more than just field notes. They expand as the authors reflect on love, loss, and family, engaging a broad array of emotions from wonder to humor.

As Rob Nixon writes in his essay, “Spotted Owls”: “Sometimes the best bird experiences are defined less by a rare sighting than by a quality of presence, some sense of overall occasion that sets in motion memories of a particular landscape, a particular light, a particular choral effect, a particular hiking partner.” Or, as poet Elizabeth Bradfield remarks, “We resonate with certain animals, I believe, because they are a physical embodiment of an answer we are seeking. A sense of ourselves in the world that is nearly inexpressible.”

When Birds are Near gives us the chance to walk alongside these avid appreciators of birds and reflect on our own interactions with our winged companions.

SUSAN FOX ROGERS is Visiting Associate Professor of Writing at Bard College. She is the author of *My Reach* and the editor of ten previous anthologies, most recently *Antarctica*.



Contributors: Christina Baal, Thomas Bancroft, K. Bannerman, R. A. Behrstock, Richard Bohannon, Elizabeth Bradfield, Christine Byl, Susan Cerulean, Sara Crosby, Jenn Dean, Rachel Dickinson, Katie Fallon, Jonathan Franzen, Andrew Furman, Tim Gallagher, David Gessner, Renata Golden, Ursula Murray Husted, Eli J. Knapp, Donald Kroodsmas, J. Drew Lanham, John R. Nelson, Rob Nixon, Jonathan Rosen, Alison Townsend, Alison Világ

\$22.95 paperback | **\$10.99** epub
296 pages, 6 x 9, 5 b&w halftones

Birds of Cuba

A Photographic Guide

ARTURO KIRKCONNELL, PATRICIA E. BRADLEY, AND YVES-JACQUES REY-MILLET

Cuba is home to a diverse avifauna, rich with endemic species. The island is also home to a range of regional scarcities and acts as an important stopping point for migrants as they cross the Caribbean.

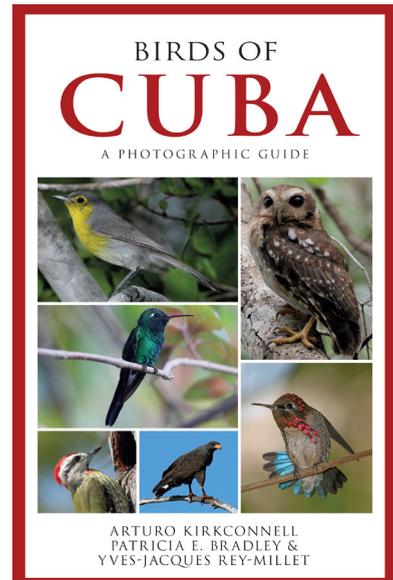
This comprehensive photographic guide provides full coverage of every species on the Cuban list. The images have been carefully selected to show key features, while the concise text is designed to aid field identification, providing essential information on ageing and sexing, voice, similar species, habitat and behavior. Each species account includes a map showing distribution on the island and is accompanied by notes on world range and status in Cuba.

Packed with spectacular images, *Birds of Cuba* is the definitive guide to the avifauna of Cuba and an essential companion for any birdwatcher or naturalist visiting this beautiful and bird-rich island.

ARTURO KIRKCONNELL is the curator of birds in Havana and the co-author of a previous guide to the birds of Cuba (Helm, 2000).

PATRICIA E. BRADLEY is an ornithologist who has lived and worked on the Cayman Islands for more than forty years. She is the author of several books on the birds of the Cayman Islands.

YVES-JACQUES REY-MILLET was a photographer who specialized in the birds of the Caribbean. His superb photography has appeared in many books, including *A Photographic Guide to the Birds of Jamaica*, which he co-authored.



First photographic field guide for the birds of Cuba

Includes all 378 recorded species

Updated status and distribution taxonomy

\$32.95 hardcover

384 pages, 5 x 8, 600 color photos, 3 maps

Central Valley

DIEGO ARGUEDAS AND LUCIANO CAPELLI

Costa Rica is much more than a verdant paradise that has no army. 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 guidebook wends its way through the cities and towns, coffee plantations, and majestic volcanoes of the Central Valley. From the gilt elegance of the National Theater to the remarkable birding to be found on highland slopes, readers will discover the heart of Costa Rica.

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

DIEGO ARGUEDAS ORTIZ is a climate change writer from Costa Rica. His work has featured on the BBC and Univision, and in *MIT Technology Review*.



ZONA TROPICAL | COSTA RICA REGIONAL GUIDES

\$17.95 paperback
132 pages, 9.5 x 8.5

BIRDS OF CUBA

A PHOTOGRAPHIC GUIDE



ARTURO KIRKCONNELL
PATRICIA E. BRADLEY &
YVES-JACQUES REY-MILLET

Manuel Antonio, Ballena & Carara

DIEGO ARGUEDAS

Costa Rica is much more than a verdant paradise that has no army. 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 guidebook takes a fresh look at three distinct regions along the Pacific Coast. From Carara—a birdwatcher's paradise, to the extraordinary ecological gems of Manuel Antonio, to whale-watching in Bahía Ballena; readers will gain a deeper understanding of some of Costa Rica's most popular tourist destinations.

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

DIEGO ARGUEDAS ORTIZ is a climate change writer from Costa Rica. His work has featured on the BBC and Univision, and in *MIT Technology Review*.



ZONA TROPICAL | COSTA RICA REGIONAL GUIDES

\$17.95 paperback
124 pages, 9.5 x 8.5

Osa and South Pacific

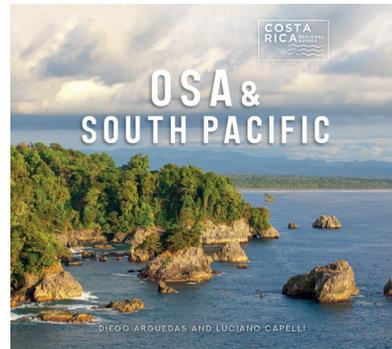
DIEGO ARGUEDAS AND LUCIANO CAPELLI

Costa Rica is much more than a verdant paradise that has no army. 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 guidebook showcases the prized jewel in Costa Rica's ecological crown—the Osa Peninsula and South Pacific. Readers plunge into the jungles of Corcovado National Park, waters that conceal extraordinary marine life, and the remarkable history of a region at the forefront of conservation efforts.

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

DIEGO ARGUEDAS ORTIZ is a climate change writer from Costa Rica. His work has featured on the BBC and Univision, and in *MIT Technology Review*.



ZONA TROPICAL | COSTA RICA REGIONAL GUIDES

\$17.95 paperback
128 pages, 9.5 x 8.5



Nature beyond Solitude

Notes from the Field

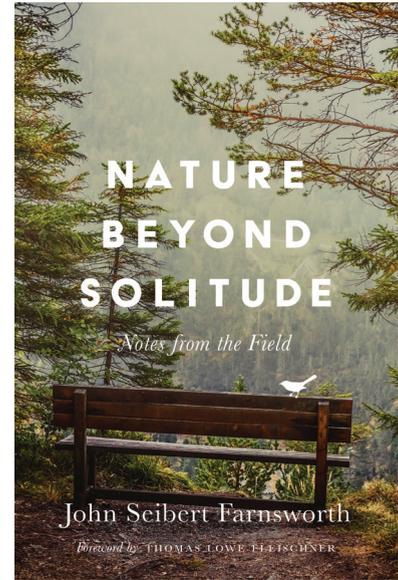
JOHN SEIBERT FARNSWORTH

FOREWORD BY THOMAS LOWE FLEISCHNER

John Seibert Farnsworth's delightful field notes are not only about nature, but *from* nature as well. In *Nature beyond Solitude*, Farnsworth lets us peer over his shoulder as he takes his notes. We follow him to a series of field stations where he teams up with scientists, citizen scientists, rangers, stewards, and graduate students engaged in long-term ecological study, all the while scribbling down what he sees, hears, and feels in the moment. With humor and insight, Farnsworth explores how communal experiences of nature might ultimately provide greater depths of appreciation for the natural world.

In the course of his travels, Farnsworth visits the Hastings Natural History Reservation, the Santa Cruz Island Reserve, the Golden Gate Raptor Observatory, the H. J. Andrews Experimental Forest, the North Cascades Environmental Learning Center, and more.

A lifelong student of literary natural history, JOHN SEIBERT FARNSWORTH taught environmental writing and literature at Santa Clara University. He is author of *Coves of Departure*.



"I keep saying that what we need are stories from the original real world, from what, in our estrangement from nature, is called "the field." And here they are, rendered in the moment, on site, feeling the sun as it crosses the sky. John Farnsworth has found, and shares with us: great places, fine people, and the right words."—Carl Safina, author of *Beyond Words*

"In this utterly original investigation, Farnsworth takes us deep into the hearts of field stations along the West coast and, by working alongside scientists and students, shows us why they remain essential. Witty, attentive, and familiar, this book will change what you thought you knew about nature study in the modern era. If you love the living world, read it right now."—Robert Michael Pyle, author of *Wintergreen*, *The Thunder Tree*, and *Nature Matrix*

\$19.95 paperback | **\$9.99** epub

216 pages, 6 x 9

CREATIVE WRITING, WOMEN, AND THE ENVIRONMENT

John Seibert Farnsworth

One of the items on my bucket list has been to teach a creative writing class. I had earned an MFA in that discipline during the previous millennium, well prior to earning my doctorate, but I'd never really taught creative writing during my sojourn in academe. More than anything else I wanted to teach a class where I didn't have to assign a letter grade at the end, a class where students could decide on their own what the level of rigor should be.

I'm teaching that class currently, and it ends this evening. It's called "Writing Nature," and has taken place around the "Point No Point" seminar table at the Hugo House in Seattle for the past ten Wednesdays. I'm loving the class because, among other factors, there are a couple of grandmothers in it. Grandmothers! During my twenty-one years in the classroom, where I mostly taught kids in their teens and early twenties, I'd never once had the opportunity to teach somebody's grandmother. Thank goodness this is no longer the case.

There are no grandfathers around the table, unfortunately. Indeed, of the fourteen names on my class roster, only three are male. Three. That's a whopping twenty-one percent of the students, and it reminds me of at least one other course I taught over the years.

A few years ago Cornell University Press was kind enough to publish *Coves of Departure: Field Notes from the Sea of Cortez*, which largely chronicled an undergraduate Santa Clara University course I used to teach in Baja natural history. The class ended with a ten-day sea kayak expedition in the Isla Espiritu Santo archipelago, where we would camp out on the beach every night. The participants were mostly from my own department, Environmental Studies and Sciences, and the Biology department. A popular offering at the upper-division level, it capped at sixteen students. For many years, however, I was lucky to get four or maybe five males to join in. Over the course of a decade, enrollment averaged slightly more than two females for every male student.

Fast forward to my next book, *Nature Beyond Solitude: Notes from the Field*. The new book contains my field notes from visits to five field stations up and down the west coast, from Santa Cruz Island to the south, up to the North Cascades Institute. During my six months in the field, I was able to participate in long-term ecological studies with numerous grad students, research assis-

tants, citizen scientists, wildlife biologists, and naturalists. And guess what: younger practitioners in the field were overwhelmingly female.

In the book's afterword, I wrote:

Patriarchy will change over time. People who trained in male-dominated forestry, geology, and zoology departments in the sixties and seventies are slowly being replaced by people who never learned to associate the word "scientist" with a specific gender. I can report with confidence that females were a particularly vibrant force among the interns, research assistants, grad students, and postdocs with whom I've associated these past six months. In some cases, the males were overwhelmingly outnumbered, like the solitary male among the six GGRO interns. The four males within the cohort of fourteen WWU graduate students represented a ratio more typical of what I was seeing in the field except for postdocs, who seemed more evenly split between gender.

My findings were not the result of scientific study; I'm merely reporting informal observations, from the field, that women seem to be connecting to nature in greater numbers than men these days. As someone who can finally call himself a creative writing instructor, I find this encouraging. If the grandmothers and granddaughters of this world can lead us out of the environmental mess we've gotten our planet into, I'm all for it.

The Comstocks of Cornell—The Definitive Autobiography

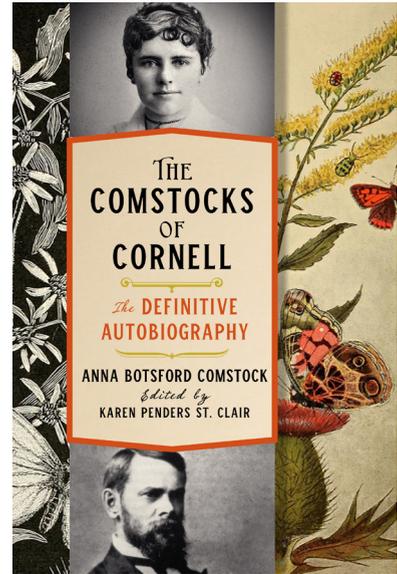
ANNA BOTSFORD COMSTOCK

EDITED BY KAREN PENDERS ST. CLAIR

The Comstocks of Cornell—The Definitive Autobiography is the autobiography written by the naturalist educator Anna Botsford Comstock about her life and that of her husband, the entomologist John Henry Comstock—both prominent figures in the scientific community and in Cornell University history.

A first edition was published in 1953, but it omitted key Cornellians, historical anecdotes, and personal insights. In this twenty-first-century edition, Karen Penders St. Clair restores the author's voice by reconstructing the entire manuscript as Anna Comstock wrote it—and thereby preserves Comstock's memories of the personal and professional lives of the couple as she originally intended. The book includes an epilogue documenting the Comstocks' last years and fills in gaps from the 1953 edition. Described as serious legacy work, this book is an essential part of the history of both Cornell University and its press.

KAREN PENDERS ST. CLAIR is an independent researcher and holds a position in the School of Integrated Plant Science and Horticulture at Cornell University.



"Anna Botsford Comstock's voice has been returned to her in this carefully edited and amended edition of her memoir of her husband John Comstock, her observations of life around her, and of Cornell University during its early days. Anna Comstock was Cornell student, scientific illustrator, wife, mother of Nature Studies, Cornell faculty woman, and one of the three most admired female citizens of the world she inhabited. Her words return us to a different world and are worth attending."—Carol Kammen, Tompkins County Historian

"Karen Penders St. Clair's masterful recovery of Anna Botsford Comstock's personal voice corrects a historical injustice. It also bestows a gift to us all as we hear and learn from a woman of great warmth and wisdom in her full humanity."—Scott J. Peters, Cornell University

\$39.95 hardcover | **\$19.99** epub
560 pages, 6 x 9, 27 b&w halftones



Catching up with Karen Penders St. Clair

What's your favorite anecdote from your research for this book?

On September 14, 2016 I found the keystone to my research in the guise of the Woodford Patterson letter of July 19, 1938 in the Rare & Manuscript Archive collection at Cornell's Kroch Library. Written to the Board of Directors, of the Comstock Publishing Company, Patterson's four-page letter unequivocally describes the Comstock-manuscript as "a desultory recital," "trivial jottings," and "commonplace and tedious for the reader" (among many other statements). Finding this letter invoked a physical reaction of dizziness. When I rushed from the reading room of the Archives, I knelt down in front of the card catalog and put my head down. I knew I had found a major piece to my research and not just supposition, or fragment thoughts in remnant letters, but an actual intact document which backed my dissertation thesis proposal and provided the foundation for the rest of my authorial work on Mrs. Comstock's manuscript.

What do you wish you had known when you started writing your book, that you know now?

I would not have wished for different

knowledge before I started writing my book. When I began my research I did not know the scope of Mrs. Comstock's contributions to nature study, her true personality or intimate details of her life, nor the extent of the censure which occurred with the 1953 edition of *The Comstocks of Cornell*. I am glad I did not know any of this because my research was not influenced by another's writing or point of view. I was able to reconstruct Mrs. Comstock's life story through her insights, discover new anecdotes about the Comstocks, and was only limited by "my research imagination" to delve into as many archival holdings I deemed necessary to tell a complete story.

How do you wish you could change the field?

I wish to present to provide a comprehensive research document for academic researchers in library & archival fields on proper research techniques and documentation, and for this book to serve as an example in giving voice to one of many early women educators in the sciences.

"I am glad I did not know any of this because my research was not influenced by another's writing or point of view"



Catching up with Peter Del Tredici

“Taking photos that captured the essence of the plant became an obsession of mine.”

What’s your favorite anecdote from your research for this book?

My book has nearly 1,200 photos of plants and I took all but 15 of them over a period of fourteen years. Most of the 268 species covered in the book are illustrated with three to six images that capture the form of the plant and the typical habitat where it grows. Taking photos that captured the essence of the plant became an obsession of mine as I travelled around the northeast stopping wherever I saw a plant in the book—along interstate highways, inner city neighborhoods and random roadside encounters. At first my family tolerated this behavior pretty well, but after a while their annoyance started to show when I repeated stopped the car to get another picture of *Phragmites* growing along the New Jersey Turnpike or whatever.

What do you wish you had known when you started writing your book, that you know now?

I sort of knew that writing a book was a huge job, but I really didn’t realize just how huge it was until it was too late to turn back. What I really didn’t appreciate was how many tiny details had to be checked over and over again. Something

as simple as determining the correct name of a plant is actually a complex problem because the names are always changing as a result of our every expanding knowledge of molecular genetics.

How do you wish you could change the field?

With my field guide I hope to set an example for how to write a field guide. I have tried to follow a few guiding principles: keep the use of jargon to a minimum; the extensive use of photos allows me to minimize technical descriptions; the photos themselves focus on the form of the plant and the habitat where it typically grows, making it easy to identify the plant at all times of year; and finally people are really interested in how a given plant relates to people, so I added a section on “Cultural Significance” to each entry.

Wild Urban Plants of the Northeast

A Field Guide, Second Edition

PETER DEL TREDICI

FOREWORD BY STEWARD T. A. PICKETT

In this field guide to the future, esteemed Harvard University botanist Peter Del Tredici unveils the plants that will become even more dominant in urban environments under projected future environmental conditions. These plants are the most important and most common plants in cities. Learning what they are and the role they play, he writes, will help us all make cities more livable and enjoyable.

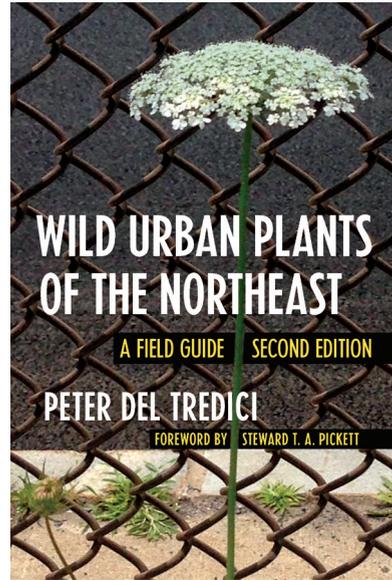
With more than 1000 photos, readers can easily identify these powerful plants.

Learn about the fascinating cultural history of each plant.

PETER DEL TREDICI is a botanist specializing trees. He retired from the Arnold Arboretum of Harvard University in 2014 after thirty-five years as plant propagator, bonsai curator, editor of *Arnoldia*, and Director of Living Collections and Senior Research Scientist. In 2013, he was awarded the Veitch Gold Medal by The Royal Horticultural Society, "in recognition of services given in the advancement of the science and practice of horticulture."

\$34.95 hardcover | **\$164.99** epub

428 pages, 6 x 9, 965 color photos, 1 b&w halftone, 1 map, 1 chart



"This field guide is useful for trained ecologists, botanists, and naturalists, and is accessible to anyone else who wonders what is sprouting up from that sidewalk crack or in that corner of their suburban garden."—*Rhodora*

"Peter Del Tredici has written one of those rare books that completely overturns the way you look at the landscape—in this case, the landscape of the city's derelict cracks and corners, which in his hands becomes a place of unusual interest, value, and beauty. Though ostensibly a field guide, this book is much more than that—it offers a deep and wise reconsideration of our most cherished ideas about nature. You will never look at an 'invasive species' the same way again."—Michael Pollan, author of *The Botany of Desire* and *The Omnivore's Dilemma*

"Despite derisive labels for these plants, such as 'weedy' and 'invasive,' he contends that the public should have greater appreciation for plants that are able to contend with complex urban ecosystems."—Marilyn K. Alaimo, Chicago Botanic Garden

LISTEN UP!

We'd really appreciate it if you listen to our incredible podcast, featuring in-depth interviews with authors who write about nature studies and life sciences, as well as check-ins with Kitty Liu, our acquiring editor in these important fields.

Find the i869 Podcast on iTunes, Spotify, SoundCloud, or wherever you get your podcasts.

Keep an eye out for the  symbol!



Mosses 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.

With multi-image composite photos that allow for unparalleled depth and clarity, this unique guide illustrates the myriad varied and beautiful—and often overlooked—mosses of the Northern Forest.

Large, easy-to-use format

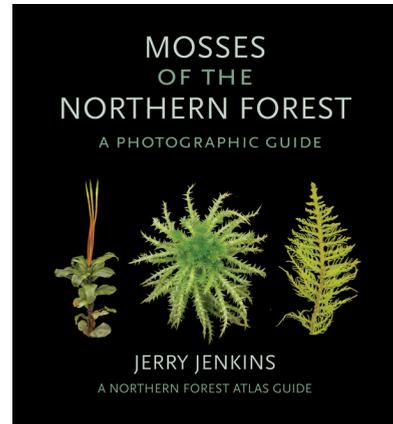
Easily characterize and compare over 300 moss species

High-definition composite images, ecological diagrams, habitat keys, and a visual glossary

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. He is author of *Woody Plants of the Northern Forest*, *Sedges of the Northern Forest*, *Climate Change in the Adirondacks*, *The Adirondack Atlas*, and coauthor of *Acid Rain in the Adirondacks*.



THE NORTHERN FOREST ATLAS GUIDE

\$16.95 paperback

176 pages, 10 x 11, 1435 color photos, 1321 diagrams

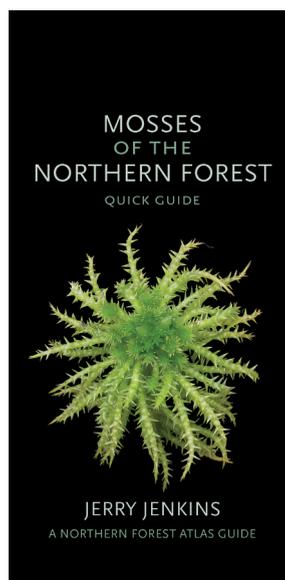
Mosses of the Northern Forest

Quick Guide

JERRY JENKINS

Mosses of the Northern Forest, Quick Guide contains two double-sided photographic charts that allow users to see high-res, close-up images of the more than 300 mosses in the Northern Forest region. The map-sized folding charts are water-resistant and field-friendly, the perfect companion to the *Photographic Guide*.

JERRY JENKINS directs the Northern Forest Atlas Project . He is author of *Woody Plants of the Northern Forest*, *Sedges of the Northern Forest*, *Climate Change in the Adirondacks*, *The Adirondack Atlas*, and coauthor of *Acid Rain in the Adirondacks*.



THE NORTHERN FOREST ATLAS GUIDES

\$11.95 fold out
4 pages, 4 x 9

Advancing Environmental Education Practice

MARIANNE E. KRASNY

In this important intervention, change-agent Marianne E. Krasny challenges the knowledge-attitudes-behavior pathway that underpins much of environmental education practice; i.e., the assumption that environmental knowledge and attitudes lead to environmental behaviors. Krasny shows that certain types of knowledge are more likely than others to influence behaviors, and that generally it is more effective to work with existing attitudes than to try to change them. The chapters expand the purview of potential outcomes of environmental education beyond knowledge and attitudes to include nature connectedness, sense of place, efficacy, identity, norms, social capital, youth assets, and individual wellbeing.

Advancing Environmental Education Practice also shows how, by constructing theories of change for their environmental education programs, environmental educators can target specific intermediate outcomes likely to lead to environmental behaviors and collective action, and plan activities to achieve those intermediate outcomes. In some cases, directly engaging program participants in the desired behavior or collective action can lead to changes in efficacy, sense of place, and other intermediate outcomes, which in turn foster future environmental actions. Finally, *Advancing Environmental Education Practice* shares twenty-four surveys that assess changes in environmental behaviors and intermediate outcomes, and provides guidelines for qualitative evaluations.

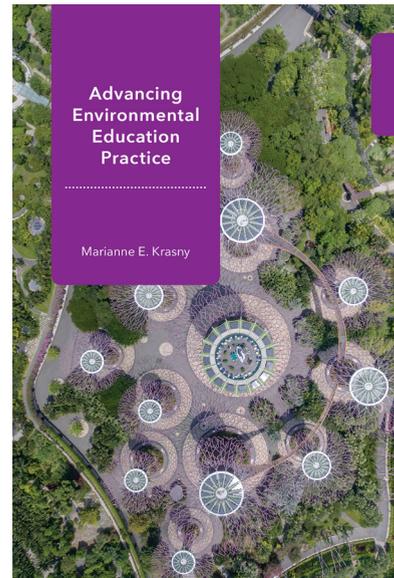
Thanks to generous funding from the Cornell Department of Natural Resources, the ebook editions of this book are available as Open Access volumes from Cornell Open (cornellopen.org) and other Open Access repositories.

MARIANNE E. KRASNY is professor of Natural Resources and Director of the Civic Ecology Lab at Cornell University. Her recent publications include *Civic Ecology*, *Urban Environmental Education Review*, *Communicating Climate Change*, and *Grassroots to Global*.

CORNELL SERIES IN ENVIRONMENTAL EDUCATION

\$19.95 hardcover | **\$0.00** epub

312 pages, 6 x 9, 2 b&w halftones, 19 charts



"I believe *Advancing Environmental Education Practices* makes a significant contribution to the field and can be a useful resource for EE practitioners to gain understanding of psychological theories and related applications to their work."—Cathlyn Styliniski, University of Maryland Center for Environmental Science Appalachian Laboratory

"I'm really glad someone is writing this book, as I think it will be useful for practitioners looking to evaluate their programs or just understand (or construct!) a theory of change for their organizations."—Kathryn Stevenson, North Carolina State University

Turfgrass Insects of the United States and Canada

Third Edition

PATRICIA J. VITTUM

The first edition of this reference work became known as the bible of turfgrass entomology upon publication in 1987. It has proved invaluable to professional entomologists, commercial turf managers, and golf course superintendents and has been used widely in college extension courses. This classic of the field is now in its third edition, providing up-to-date and complete coverage of turfgrass pests in the continental United States, Hawaii, and southern Canada.

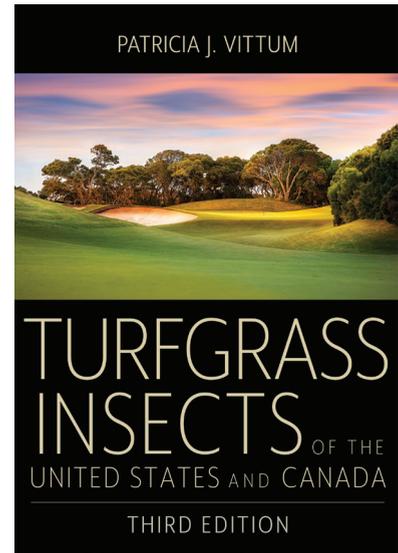
This revised volume integrates all relevant research from the previous two decades. It provides expanded coverage of several pest species, including the annual bluegrass weevil, invasive crane fly species, chinch bugs, billbugs, mole crickets, and white grubs. Patricia J. Vittum also provides detailed information on the biology and ecology of all major pests and includes the most current information on conditions that favor insect development and biological control strategies pertinent to each species.

This edition will include more than 100 black-and-white images, including diagrams of life cycles, sketches of morphological characteristics, and charts highlighting seasonal activity. The book also includes 72 full-color plates (more than 500 color images), showing closeup pictures of most of the key insects (adult and immature stages) and damaged turf. The reader should be able to identify most turf insects through the use of this text. It is a critical reference work that any serious turf professional should own.

PATRICIA J. VITTUM spent thirty-seven years on the faculty of the University of Massachusetts-Amherst, conducting research on the biology and ecology of several turf insects. She received the Distinguished Service Award from the United States Golf Association Green Section in 2015 and from the Golf Course Superintendents Association of America in 2017.

\$99.95 hardcover | **\$49.99** epub

552 pages, 7 x 10, 3 b&w halftones, 49 b&w line drawings, 34 maps, 11 charts, 72 color photos



"This revised and expanded second edition is excellent and is highly recommended for anyone working with turfgrasses and their pests."—*E-Streams*

"This contribution updates and expands the excellent first edition by Tashiro . . . and will become the new standard reference for turfgrass entomology. Users still must tailor the information to their turfgrass species in their environments to make the most effective use of the book. This task is much easier with the depth and breadth of information provided."—*Choice*

"There is no book available that offers such comprehensive, yet in-depth coverage of turfgrass insects and associated pests. The team of highly regarded authors mastered the challenge of integrating the latest research findings and produced an outstanding volume with the finest collection of color plates of pests and damage found anywhere. If you only have one book as a reference for turfgrass insect management, this should definitely be the one!"—Rick L. Brandenburg, North Carolina State University



Catching up with Patricia L. Vittum

“I estimate I spent about 1,000 hours on the revision.”

What’s your favorite anecdote from your research for this book?

No anecdote, just an observation:

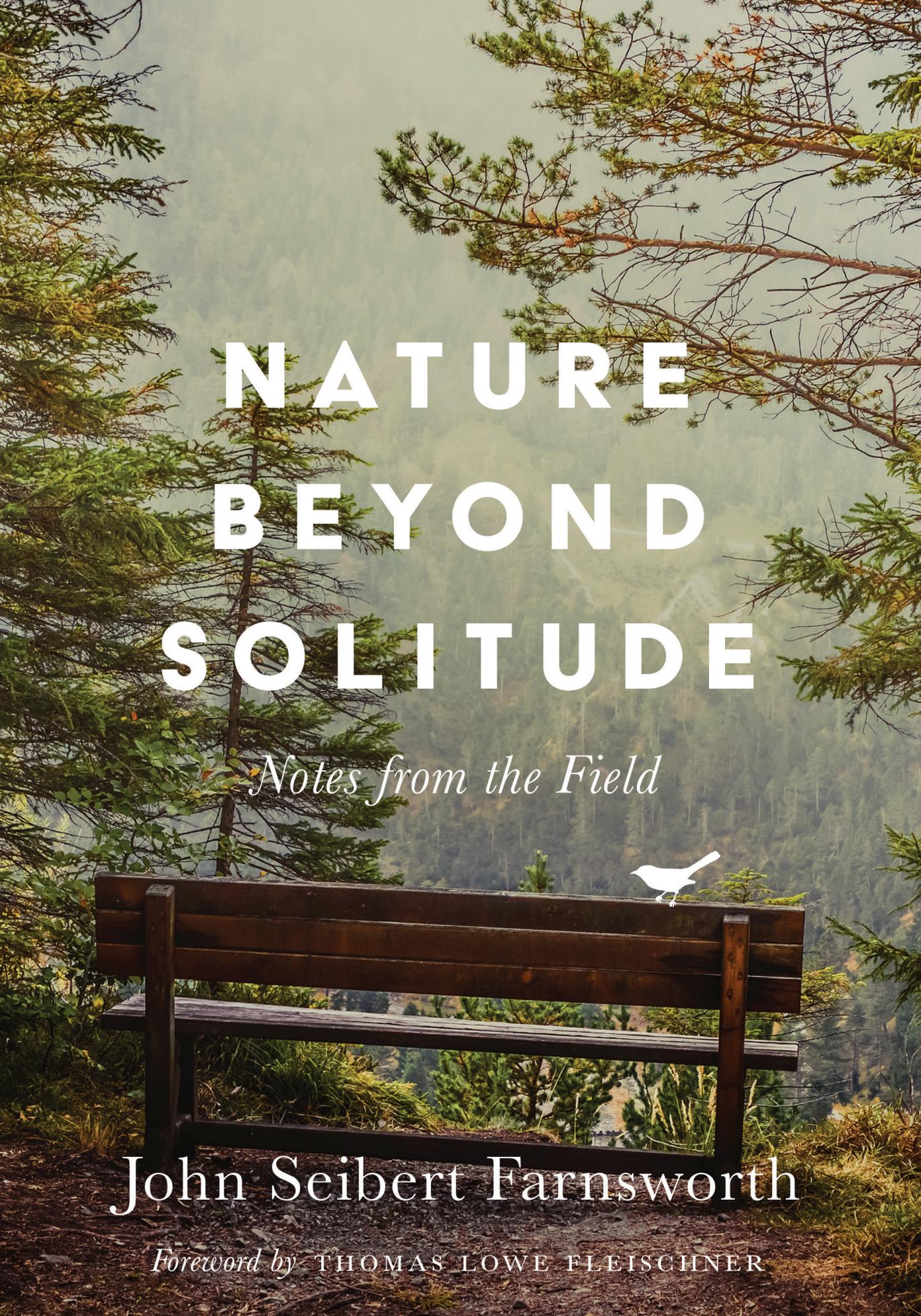
When I began collecting the information for this revision, I found myself thinking a lot about “Tash” (Haruo Tashiro), the sole author of the first edition of *Turfgrass Insects of the United States and Canada*, and premier turf entomology researcher throughout his career. I also thought a lot about Mike Villani, who was the second author to the second edition and perhaps the best turf entomology researcher in the world before his untimely death in 2001.

What do you wish you had known when you started writing your book, that you know now?

I don’t think I truly understood what a monumental effort it would be to pull the research papers together from the past 20 years. While my turf entomologist colleagues were unfailingly helpful and sent me many pdfs or links, the volume of information I collected was overwhelming. Processing all of that information was also overwhelming. I estimate I spent about 1,000 hours on the revision, maybe more.

How do you wish you could change the field?

A change I would love to see in “Science and Nature Studies” would be to reach out to elementary school students more effectively, and engage them in the wonders of scientific exploration. While a few schools have excellent programs, too many are forced to rely on teaching techniques that shut down the natural curiosity of children.



NATURE
BEYOND
SOLITUDE

Notes from the Field



John Seibert Farnsworth

Foreword by THOMAS LOWE FLEISCHNER



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.

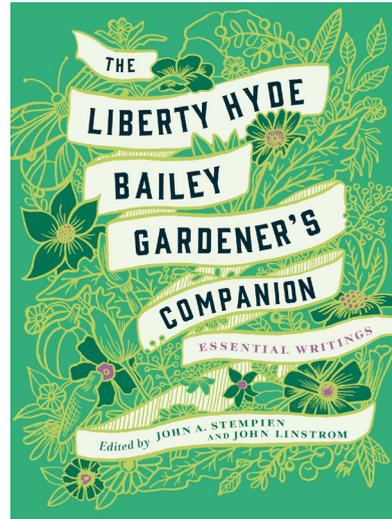
LIBERTY HYDE BAILEY (1858–1954) grew up on a farm in Michigan and went on to become Dean of the College of Agriculture at Cornell University, Chair of the Country Life Commission under President Theodore Roosevelt, and the “Father of Modern Horticulture.” He authored more than seventy books, published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

\$26.95 hardcover | **\$12.99** epub

320 pages, 5.5 x 8.5, 21 b&w halftones, 1 b&w line drawing, 1 chart



“This earnest collection will likely introduce Bailey’s name to a new generation of gardeners and reacquaint older ones with the ideas of a justly celebrated master.”—*Publishers Weekly*

“Bailey’s writing reflects his deep desire to educate. . . because he so wanted to share the joy he felt for plants and gardening with anyone who would listen. The book will be relished by gardeners, both novice and experienced, who will smile and nod knowingly at Bailey’s descriptions of the smell of newly-turned soil, the miracle of watching a see sprout, or the feeling of pure contentment a garden can bring.”—*The American Gardener*

“Liberty Hyde Bailey spoke to an early generation of environmentalists, and this collection brings his affection for plants and nature to contemporary ears. His affection is contagious, at once enthusiastic and practical, a powerful, lovely tool to help rekindle connections to the world that feeds us body and soul.”—Amy Halloran, author of *The New Bread Basket*

Monteverde and Arenal

MARÍA MONTERO AND LUCIANO CAPELLI

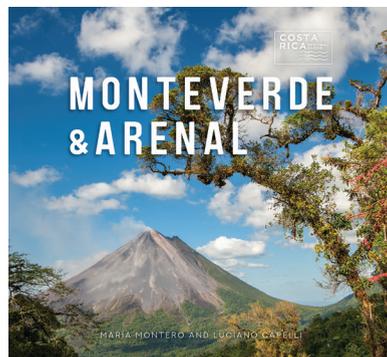
Costa Rica is much more than a verdant paradise. It's a land of diverse landscapes and cultures. This collection of regional guides reveals unknown facets of Costa Rica and helps travelers understand what makes this country so unique.

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.



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Guanacaste

MARÍA MONTERO AND LUCIANO CAPELLI

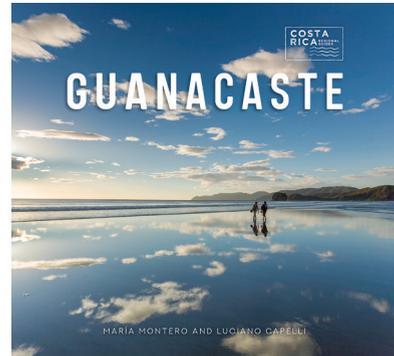
Costa Rica is much more than a verdant paradise. It's a land of diverse landscapes and cultures. This collection of regional guides reveals unknown facets of Costa Rica and helps travelers understand what makes this country so unique.

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.



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- *The Birds of Costa Rica, A Field Guide*, by Richard Garrigues,
- *The Beekeeper's Handbook, Fourth Edition*, by Diana Sammataro and Al-
phone Avitabile
- *The Wildlife of Costa Rica, A Field Guide*, by Fiona Reid, Twan Leenders,
Jim Zook, and Robert Dean
- *Weeds of the Northeast*, by Richard H. Uva, Joseph C. Neal, and Joseph M.
DiTomaso
- *Photo Guide to Birds of Costa Rica*, by Richard Garrigues
- *The Liberty Hyde Bailey Gardener's Companion*, by Liberty Hyde Bailey,
edited by John A. Stempien and John Linstrom
- *Mosses, Liverworts, and Hornworts*, by Ralph H. Pope
- *Birds of Panama, A Field Guide*, by George Angehr
- *Reptiles of Costa Rica*, by Twan Leenders
- *Woody Plants of the Northeast, Photo Guide*, by Jerry Jenkins

Caribbean Coast

YAZMÍN ROSS AND LUCIANO CAPELLI

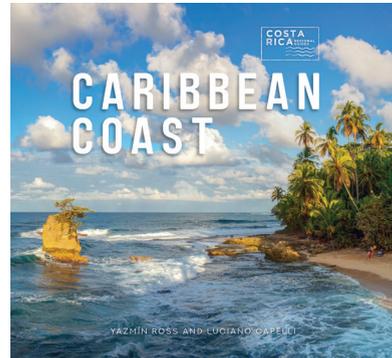
Costa Rica is much more than a verdant paradise. It's a land of diverse landscapes and cultures. This collection of regional guides reveals unknown facets of Costa Rica and helps travelers understand what makes this country so unique.

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.



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128 pages, 9.5 x 8.5, 80 color photos, 10 color line drawings

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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.

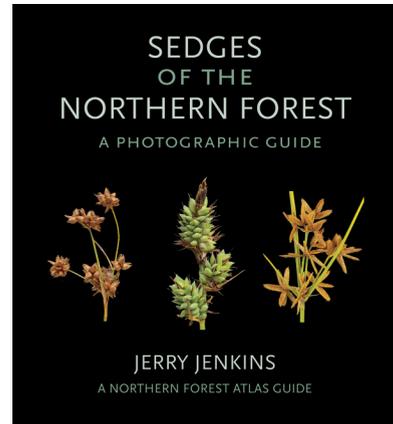
Through multi-image composite photos that allow for unparalleled depth and clarity, this unique guide illustrates the 236 varied and beautiful, and often overlooked, sedges of the Northern Forest.

- Large, easy-to-use format
- Easily identify and compare different sedges
- Fully illustrated with high-definition composite images
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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. He is author of *Woody Plants of the Northern Forest*, *Sedges of the Northern Forest*, *Climate Change in the Adirondacks*, *The Adirondack Atlas*, and coauthor of *Acid Rain in the Adirondacks*.



"This guide is an essential companion for those interested in stewardship and conservation of the region."—*Northeastern Naturalist*

"This group of plants will never be easy to identify at the species level, but Jenkins makes it as easy as possible, and this guide is much more accessible than the technically written identification manuals that preceded it."—*Choice*

"This book is well conceived, and provides an excellent resource for field botanists . . . I certainly recommend it to field botanists and naturalists interested in improving their knowledge of this important family of flowering plants."—*The Canadian Field-Naturalist*

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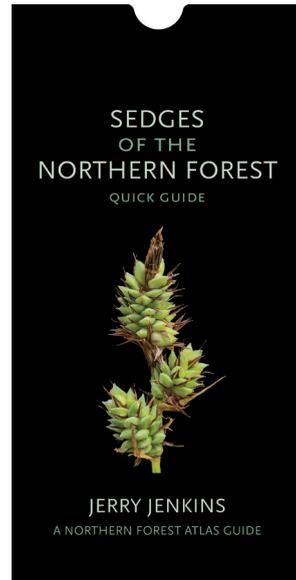
Sedges of the Northern Forest

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 . He is author of *Woody Plants of the Northern Forest*, *Sedges of the Northern Forest*, *Climate Change in the Adirondacks*, *The Adirondack Atlas*, and coauthor of *Acid Rain in the Adirondacks*.



THE NORTHERN FOREST ATLAS GUIDES

\$11.95t fold-out chart

4 pages, 4 x 9



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.

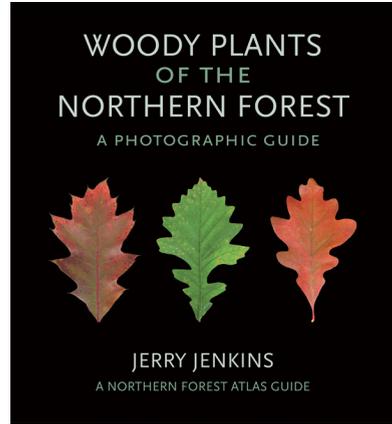
- Large, easy-to-use format
- Easily compare different species
- Fully illustrated with high-definition composite images
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A complete online archive of images and articles, including digital atlases, is available at northernforestatlas.org.

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THE NORTHERN FOREST ATLAS GUIDES

\$16.95 paperback
64 pages, 11 x 10, fully illustrated



“The majority of the 265 woody plants present in the Northern Forest region (the oak forests of the eastern United States and the boreal forests of eastern Canada) are illustrated in *Woody Plants of the Northern Forest*. High-resolution studio photos are annotated with detailed identification markers and notes. . . . Anyone interested in forests and their stewardship will find this title of use.”—*American Reference Books Annual*

“A beautiful, easy-to-use, and innovative identification book. The accompanying *Quick Guide* and online material help to fulfill the aims of the Northern Forest Atlas in producing ground-breaking resources, targeted at naturalists and ecologists, to aid in fostering conservation and stewardship of the Northern Forest Region. . . . The affordable price tag for the *Quick Guide* and the *Photographic Guide* make either a welcome addition to any naturalist’s library.”—*The Canadian Field-Naturalist*

“This guide is an essential companion for those interested in stewardship and conservation of the region.”—*Northeastern Naturalist*

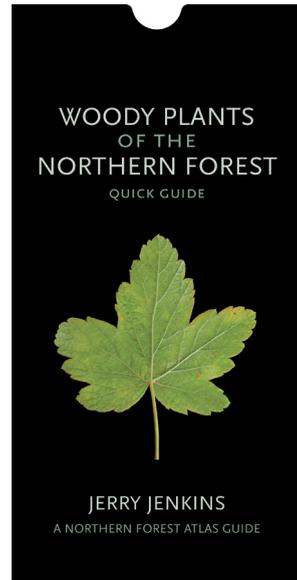
Woody Plants of the Northern Forest

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. He is author of *Woody Plants of the Northern Forest*, *Sedges of the Northern Forest*, *Climate Change in the Adirondacks*, *The Adirondack Atlas*, and coauthor of *Acid Rain in the Adirondacks*.



THE NORTHERN FOREST ATLAS GUIDES

\$11.95 foldout

4 pages, 4 x 9, fully illustrated

Reptiles of Costa Rica

A Field Guide

TWAN LEENDERS

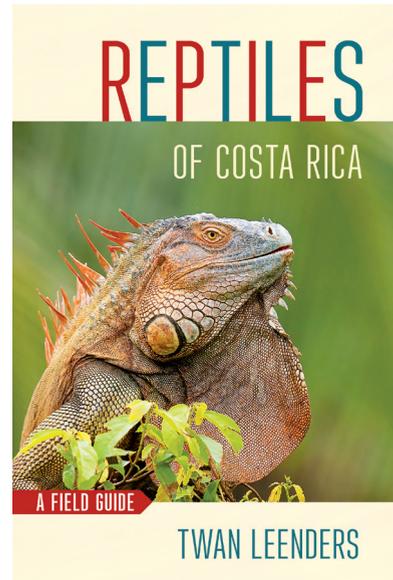
Reptiles of Costa Rica, the long-awaited companion to *Amphibians of Costa Rica*, is the first ever comprehensive field guide to the crocodylians, turtles, lizards, and snakes of Costa Rica. A popular destination for tourists and biologists because of its biodiversity, the country is particularly rich 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.

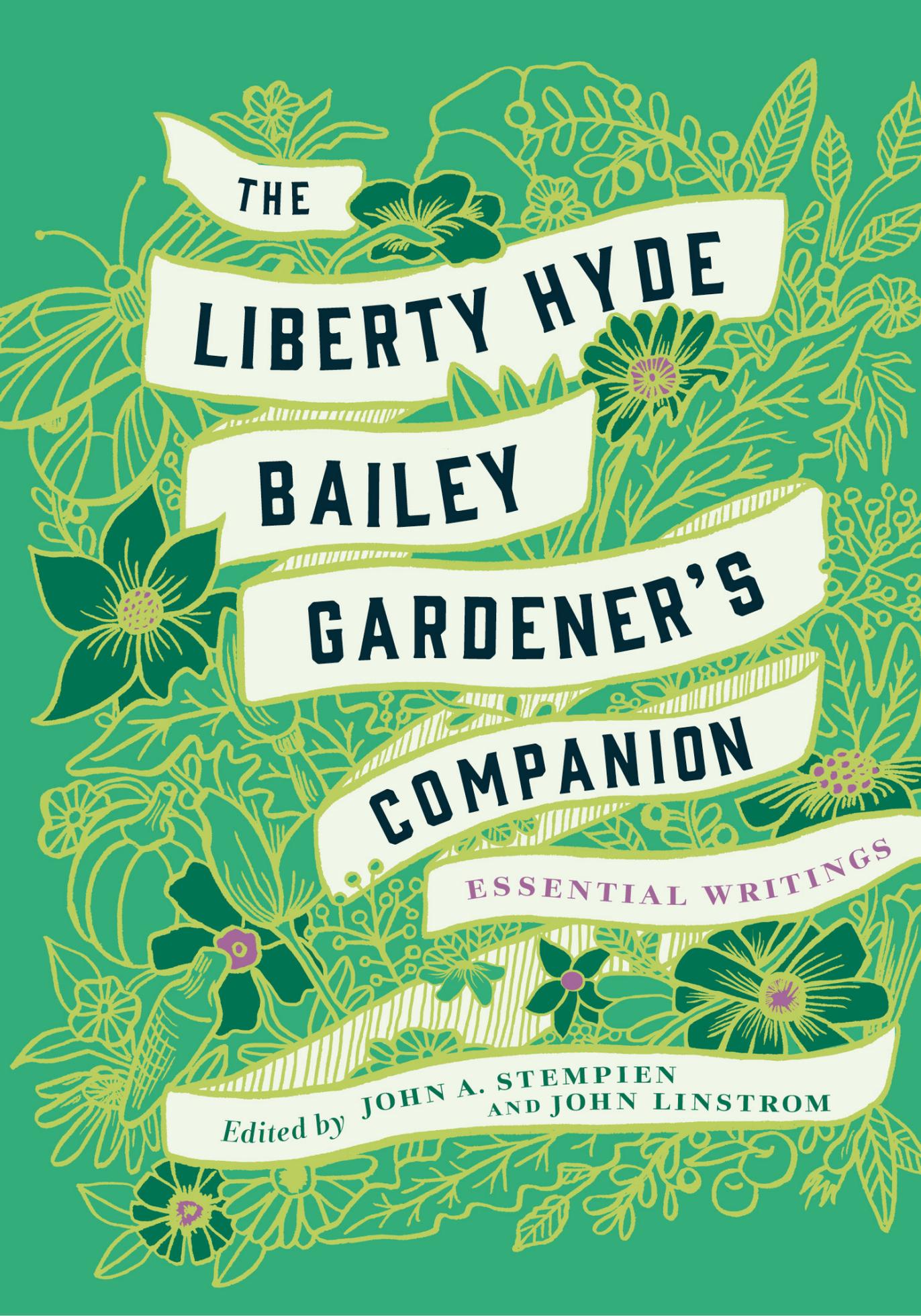
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640 pages, 5 x 7.75, 800 color photos, 40 b&w line drawings,
51 illustrations, 245 maps



"Overall the book is an amazing accomplishment— scientifically sound, beautifully constructed, and artistically orchestrated. The photos alone are reason enough to collect the book for your library. The guide is absolutely necessary for reptile exploration in Costa Rica."—*Sonoran Herpetologist*

"With sumptuous photos and informative text this brilliant book has everything you need to identify all of Costa Rica's reptiles. Twan Leenders' elegant prose summarizes up to date information on the conservation status and natural history of the country's crocodylians, turtles, lizards and snakes. This guide should be in everyone's suitcase on any visit to Costa Rica, it will definitely be in mine."—Nigel Marven, Wildlife TV host and filmmaker



THE
LIBERTY HYDE

BAILEY

GARDENER'S

COMPANION

ESSENTIAL WRITINGS

Edited by JOHN A. STEMPIEN
AND JOHN LINSTROM

Nature Rx

Improving College-Student Mental Health

DONALD A. RAKOW AND GREGORY T. EELLS

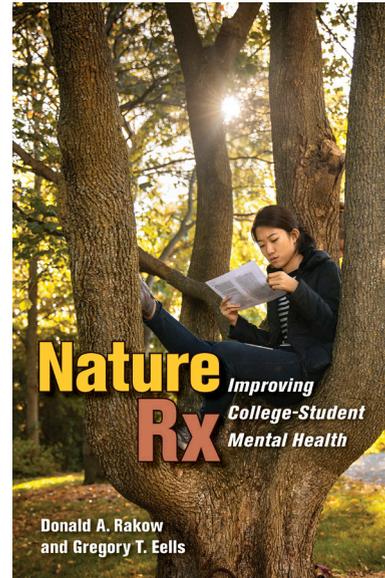
The Nature Rx movement is changing campus life. Offering alternative ways to deal with the stress that students are under, these programs are redefining how to provide students with the best possible environment in which to be healthy, productive members of the academic community.

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 was Director of Counseling and Psychological Services at Cornell University.



"The writing style is engaging and the authors are well versed in their subject, providing ample evidence to support their arguments. The material in this slim book would be of benefit to student counseling center and student affairs staff, as well as to students of psychology."—*Choice*

"*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

\$14.95 paperback | \$6.99 epub
108 pages, 5.5 x 8.5



Coves of Departure

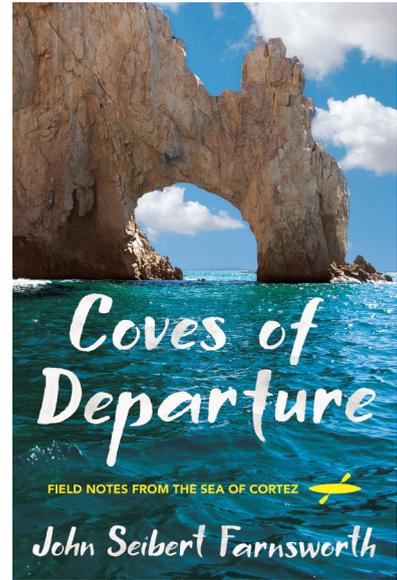
Field Notes from the Sea of Cortez

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.



"Farnsworth has created a single narrative out of experiences from various years and turned the rotating cast of science professors who helped lead the class into a composite character, "Dr. Awesome." The result is warm and witty, a resource full of information about birds, sea creatures, desert plants, and the changing environment; tips for camping, cooking, kayaking, and teaching writing; and insights into how humans respond to encounters with the natural world."—*Choice*

"*Coves of Departure* is a natural history of a place, a travel memoir, a dip into the author's consciousness—a literary book with multiple layers. The fresh contribution of this book lies in its humor; 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 Russell, author of *Diary of a Citizen Scientist*, winner of the 2016 John Burroughs Medal for Distinguished Nature Writing, Western New Mexico University

\$18.95 paperback | **\$7.99** epub
168 pages, 6 x 9

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.

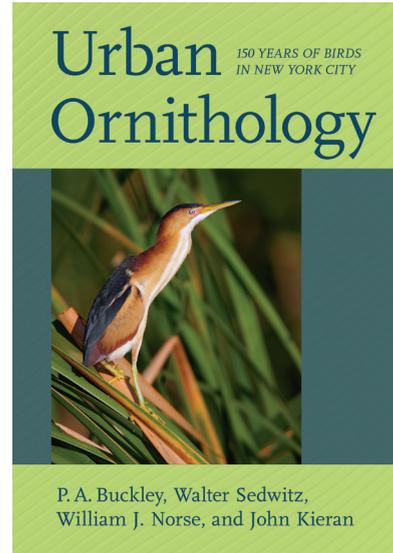
P. A. BUCKLEY, a Riverdale native, is Senior Scientist Emeritus at Patuxent Wildlife Research Center.

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 hardcover | **\$36.99** epub
536 pages, 7 x 10



"This is a detail-rich historical summary of a local urban avifauna. . . . Urban ecologists will find it valuable for its documentation of the declines and successes of birds in a well-studied metropolis. The text is enriched by many maps, photographs, figures, and tables."—*Choice*

"Throughout the book you read and hear a voice that is tying together all that was, all that has been lost, and all that remains, and what people who love nature are trying to do to protect New York City's natural world. . . . A treasure for anyone wanting to learn about bird life in New York City, and for students and teachers of ornithology. Here we get not only a natural history of the city, but many of the reasons why we need to cherish and protect it."—*The Gotham Center for New York City History*

"Any book that starts "It was a dark and very stormy night." has got to be worth investigating. [*Urban Ornithology*] is a testament to what long-term effort by dedicated observers can achieve."—*British Trust for Ornithology*



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.

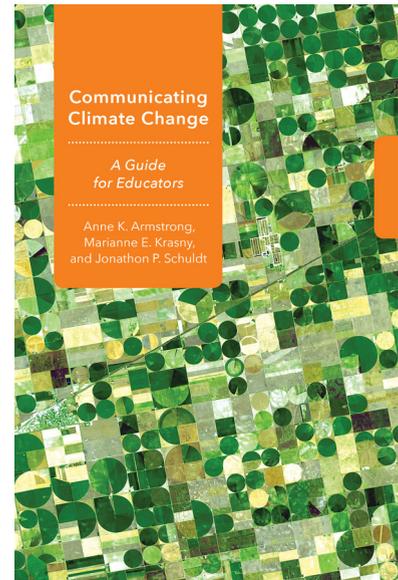
Starting with the basics of climate science and climate change public opinion, Armstrong, Krasny, and Schuldt synthesize research from environmental psychology and climate change communication, weaving in examples of environmental education applications throughout this practical book. Each chapter covers 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

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144 pages, 6 x 9, 2 b&w halftones, 1 figure, 9 charts



"The intertwined fields of climate change and education are both expertly addressed in this timely, well-organized book. Not shying away from the inherent complexity of teaching to promote meaningful action in response to global climate challenges, this resource offers practical examples supported by conceptually rich perspectives. . . . This resource offers rich insights to both formal and informal environmental educators and to students studying climate change in the advanced secondary and higher education contexts."—*Choice*

"*Communicating Climate Change* provides a coherent explanation of effective climate change communication for practitioners. It offers 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, Professor and Extension Specialist, University of Florida

Thanks to generous funding from Cornell University, the ebook editions of this book are available as Open Access from Cornell Open (cornellopen.org) and other Open Access repositories.

An aerial photograph of a dense forest. A stream flows through the center of the image, reflecting the sky. The trees are mostly evergreens, with some showing autumnal colors. The stream is surrounded by a mix of green and brown foliage.

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The Birds at My Table

Why We Feed Wild Birds and Why It Matters

DARRYL JONES

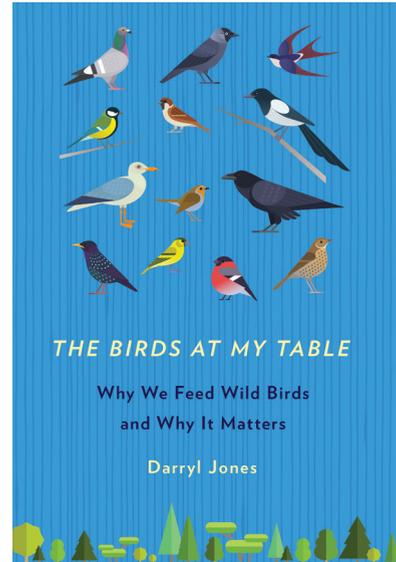
Darryl Jones is fascinated by bird feeders. Not the containers supplying food to our winged friends, but the people who fill the containers.

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.



"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*

"[An] outstanding book. It is scholarly, meticulously researched, wide-ranging, and extremely thought-provoking. Jones's descriptions of his many visits to experts on wild bird feeding are especially entertaining; you feel you almost know the people he is interviewing and are on the journey with him! There are also some lovely little flashes of a dry, almost whimsical humour."—*Corella*

"Jones's passion shines through, and the book ultimately succeeds at making its main point: that bird feeding is more about humans than about birds."—*Earth Island Journal*

\$19.95 paperback | **\$9.99** epub
352 pages, 6 x 9

WHAT HAPPENS WHEN WE FEED BIRDS?

Darryl Jones

Feeding wild birds is probably something so familiar, so everyday, so commonplace—so tame perhaps—that we can forget that this is a fundamentally artificial activity. In virtually every case, the types of food we use to attract birds to our house yards—typically mixtures of various seeds but sometimes leaf-overs from a family meal—are entirely different to those they consume in their natural diet. Our feeders also concentrate birds into closer interactions than they would normally tolerate, often bringing together species which would never have anything to do with each other. Even the structure of the feeder itself is starkly unnatural: a swaying glass cylinder or a conspicuous platform, typically in an open and potentially dangerous setting.

Yet—wonderfully—the birds don't seem to mind. They wing in to consume the unusual offerings from these strange structures, freely and willingly, wild creatures entering our lives for a while and then leaving just as quickly. These visits are often brief but they can be deeply valued by the people watching. Nonetheless, regardless of what we may think, these snacks usually occupy only a fragment of their busy lives. There have been concerns that our provisioning of bird food may lead to dependence but there appears very little evidence for this. Apart from extreme situations such as prolonged cold periods or drought, most birds visiting feeders obtain only a small proportion of their daily diet this way; most of their food remains entirely natural.

We might pride ourselves on our efforts at providing plenty of food for lots of species. And that this makes a real difference in their lives. But, it seems, this may speak more about us than it does about them. Now there are definitely circumstances where the provisioning of foods for birds in towns and cities is vital – the hummingbirds now resident in wintry Seattle, for example, or the song thrushes on Britain, whose primary habitat is now urban. But the reality is that almost all of the seed (and it is a truly massive amount) put out for untold millions of birds which visit our feeders, is not really necessary. It all gets eaten, sure, but it is really is an addition, sometimes just a passing snack, to their dietary requirements. For most individual birds, the feeder food appears to be a welcome option but is rarely essential.

That statement might suggest that I don't think that feeding birds is important. On the contrary, I believe this pastime to be one of the most significant means

by which humans are able to interact with nature. In an increasingly urbanized world, where more and more people are concentrated into increasingly smaller areas, our connection with wildness becomes ever more vital. There is now an abundance of evidence of the benefits—mental, medical, physical, spiritual—of even passive form of contact with non-anthropogenic features. A walk in the park, time in the garden, walking beside a lake, jogging along the river. These are all valuable. But there is something especially profound about direct contact with genuine wild-life. The simple, everyday, commonplace action of filling a feeder can result in a truly wild creature entering our lives. That can be an experience of enormous significance.

And responsibility. This everyday, commonplace action also changes entirely natural communities. Feeders attract feeder birds, not everything. Many of these birds displace, other less pushy types. And by concentrating birds into unnaturally small areas, the possibility for the spread of infection is enormously increased. Feeders can attract vermin and predators, and the food can be of poor quality. If we are going to invite birds to share our table, we must face up to the responsibility of the host.

The most important issue of maintaining a bird feeder is, however, even less obvious. We are typically focussed on our feeder, in our garden. But these are part of a huge network of other feeders, all interconnected by the birds which travel between them. As a whole, this is a landscape, state, country, continental, possibly global web of connections. Currently, we know virtually nothing about the how these interactions work. But it's time to take this everyday activity much more seriously.

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.

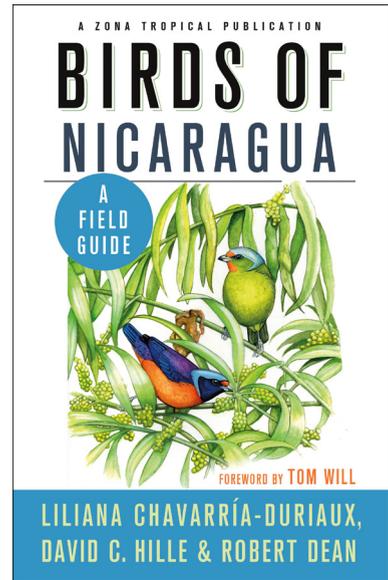
LILIANA CHAVARRÍA-DURIAUX has spent two decades conducting bird surveys throughout the far reaches of Nicaragua. She is Cofounder of El Jaguar Reserve, where she serves as Ornithological Research Director.

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 paperback
480 pages, 5.5 x 8.5



"A must-have for those birding in Nicaragua!"—*The Birdbooker Report*

"Relatively straightforward and exceptionally well done . . . Libraries with extensive ornithological holdings will want a copy."—*Choice*

"This work represents the definitive field guide to Nicaraguan birds for bird watchers and ornithologists alike. It's an important work that will promote ornithology, conservation, and tourism in a country rich with birds at the crossroads of North and South America."—Steve Beissinger, President, American Ornithological Society, and Professor of Conservation Biology, University of California, Berkeley

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.

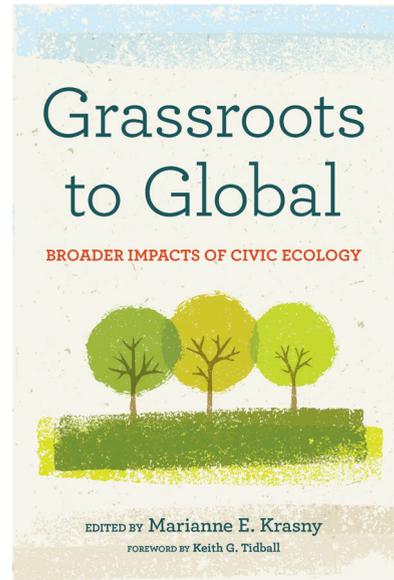
Chapters focus on questions that include: How might faith-based institutions in Chicago expand the work of church-community gardens? How do volunteer “nature cleaners” in Tehran attempt to change Iranian social norms? How does an international community in Baltimore engage local people in nature restoration 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*.

Contributors: Aniruddha Abhyankar, Martha Chaves, Louise Chawla, Dennis Chestnut, Nancy Chikaraishi, Zahra Golshani, Lance Gunderson, 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 paperback | **\$13.99** epub

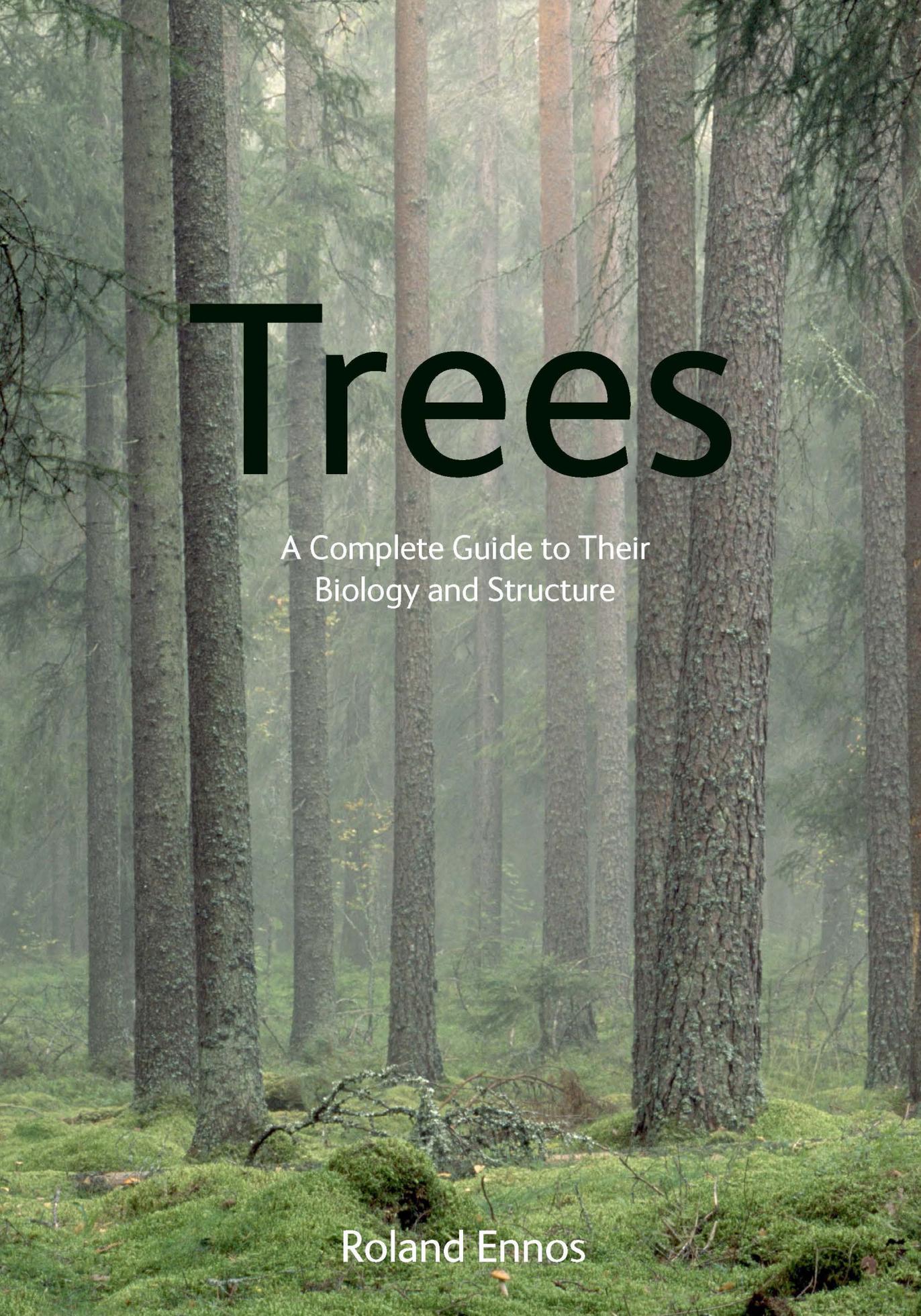
276 pages, 6 x 9, 28 b&w halftones, 6 diagrams, 1 graph



“Both eminently practical and theoretically sophisticated. *Grassroots to Global* will be of great interest to those who focus on civic ecology in particular, or scholars and practitioners who focus on grassroots approaches to social-ecological change in general.”—*Choice*

“*Grassroots to Global* is about reclaiming broken pieces. . . .the text is enhanced with a variety of charts and pictures, and it clearly has a global reach.”—*Electric Green Journal*

“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

A misty forest scene with tall, thin trees and a mossy ground. The trees are mostly evergreens, and the ground is covered in green moss. The atmosphere is soft and hazy, with light filtering through the trees.

Trees

A Complete Guide to Their
Biology and Structure

Roland Ennos

Urban Environmental Education Review

EDITED BY ALEX RUSS AND
MARIANNE E. KRASNY

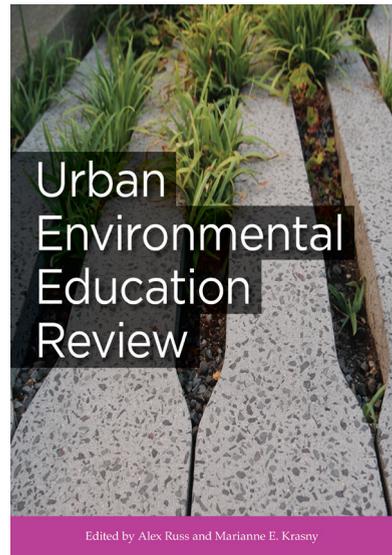
Urban Environmental Education Review explores how environmental education can contribute to urban sustainability. Urban environmental education includes any practices that create learning opportunities to foster individual and community well-being and environmental quality in cities. It fosters novel 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/eepro/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 co-author of *Civic Ecology*.



“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

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330 pages, 6 x 9

Connecting the Drops

A Citizens' Guide to Protecting Water Resources

KAREN SCHNELLER-MCDONALD

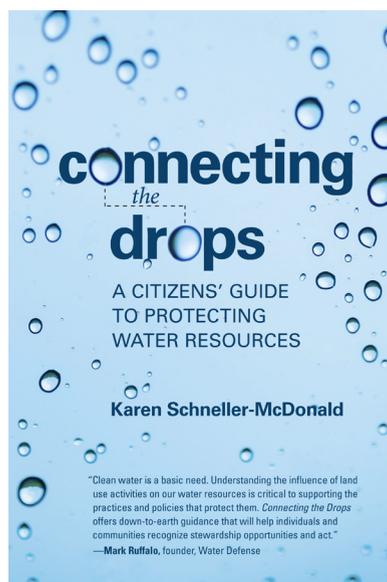
The need for improved water resource protection, beginning with grassroots action, is urgent. The water we use depends on networks of wetlands, streams, and watersheds. Land-use activities, however, are changing these natural systems. Often these changes result in ecological damage, flooding, water pollution, 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>.

KAREN SCHNELLER-MCDONALD is a wetland and water resources specialist. She is the president of Hickory Creek Consulting LLC.

\$27.95 hardcover | **\$13.99** epub

288 pages, 6 x 9, 6 line figures, 18 tables, 4 maps



“Schneller-McDonald offers an authoritative review of methods for water conservation and use, which is especially important as many regions of the world currently face shortages. 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.

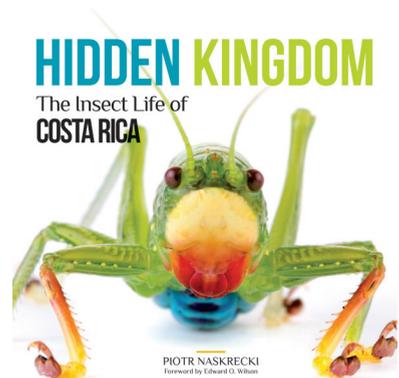
PIOTR NASKRECKI is Associate Director of the E. O. Wilson Biodiversity Laboratory at Gorongosa National Park, Mozambique, and Research Associate at the Museum of Comparative Zoology, Harvard University. He is the author of *The Smaller Majority* and *Relics* and photographer of *A Window on Eternity* 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.

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216 pages, 10 x 10, 450 color photos



"I recommend this volume to both biologists and anyone with an aesthetic interest in nature. Naskrecki's high-quality photographs should convince even the most ardent Web surfers and app aficionados that there is still a place for books."—*The Quarterly Review of Biology*

"The text is excellently written and scientifically accurate, yet thoroughly accessible and engaging for lay readers. Many photographs were taken in natural environments, and a few under controlled lighting, but all images are of high quality, revealing details that highlight the unique beauty of each specimen. This work would make an excellent educational coffee-table book."—*Choice*

"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*

The Observation Hive Handbook

Studying Honey Bees at Home

FRANK LINTON

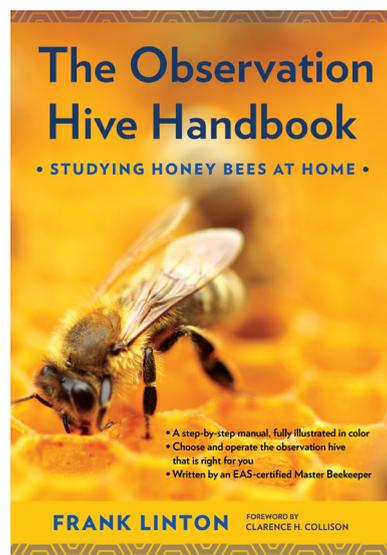
FOREWORD BY CLARENCE H. COLLISON

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*

"I wish I would have had this book 30 years ago when I started my first observation hive. It would have saved me a lot of time and energy and money, and if you don't already have one (and why not?), it will do the same for you. . . . If you have plans for, or already have one of these [hives], you need this book. It's worth every penny."—*Bee Culture*

"*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

\$24.95 paperback | **\$11.99** epub
110 pages, 7 x 10, 94 color photos, 2 line drawings

Whales

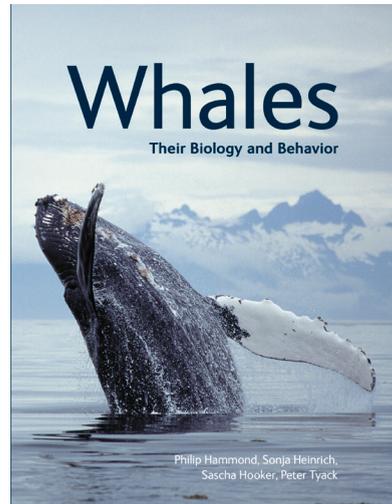
Their Biology and Behavior

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 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."—*BBC Wildlife*

"By highlighting certain aspects of conducting research on free-ranging whales, readers will come away with an appreciation of the difficulties associated with studying these highly specialized animals, despite the many advances in technology. As such, 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 paperback

144 pages, 7.5 x 10, 1 b&w photo, 94 color photos, 4 b&w line drawings, 5 color line drawings



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commentaries, and Q&As with
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It's like a blog, but better!

Want to write for it?
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af582@cornell.edu.

Zoo Ethics

The Challenges of Compassionate Conservation

JENNY GRAY

FOREWORD BY JOEL SARTORE

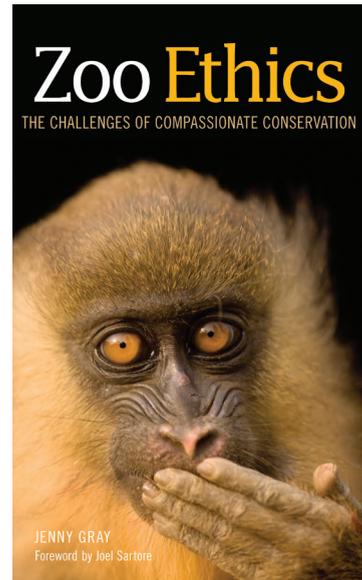
Zoo Ethics examines the workings of modern zoos and considers the core ethical challenges faced by people who choose to hold and display animals in zoos, aquariums, or sanctuaries. Jenny Gray asserts the value of animal life and assesses the impacts of modern zoos, including the costs to animals in terms 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*.

\$45.00 hardcover
256 pages, 6 x 9



"The book considers a range of ethical issues, including animal welfare, animal rights, consequentialism, virtue theory, and environmental ethics of the conservation of species. Gray thoughtfully considers these topics in the context of the history of zoos' treatment of animals, both as trained spectacles and in terms of housing. . . . Overall, this is a provocative, educational resource for students and professionals alike."—*Choice*

"An exercise in applied ethics, bringing together ethical frameworks with real information about the ways zoos are run, and their positive and negative impacts. . . . This book succeeds in giving a sense of the depth of the problem of defining and operating an ethical zoo."—*Quarterly Review of Biology*

"Calling on zoo professionals to rise to the challenge of transforming zoos using compassionate conservation, Gray recognises that many zoos cannot continue to ignore the needs of their animals. This book is a thoughtprovoking addition to the field of animal and zoo ethics."—*Australian Veterinary Journal*

Vanished and Vanishing Parrots

Profiling Extinct and Endangered Species

JOSEPH M. FORSHAW

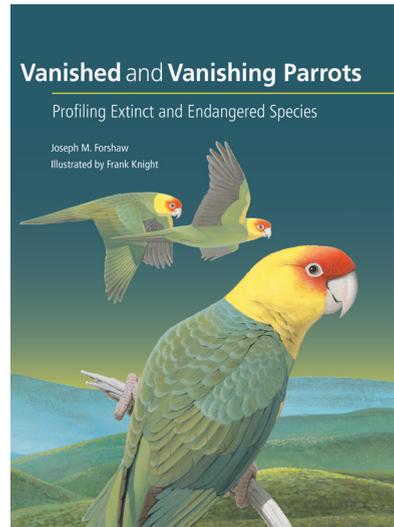
FOREWORD BY NOEL F. R. SNYDER

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*.



"This encyclopedic work has beautiful color plates, references, and index. Bird lovers and ornithology researchers will find this title a valuable reference."—*American Reference Books Annual*

"Forshaw and Knight have provided a thorough, well-organized, and aesthetic work that not only inspires us to look back at what we have lost but also forward to prevent further extinctions; we can learn from past mistakes."—*The Quarterly Review of Biology*

"In sum, this is a valuable book with a great many strengths. Forshaw is a master of collecting pertinent information from a broad array of sources; the result is a rich collection of species accounts that surpasses in detail those in any of his preceding books. The artwork by Knight complements these accounts and brings them to vibrant life."—*The Condor*

\$95.00 hardcover

344 pages, 8.5 x 12, 17 illustrations, 79 maps, 59 color plates



Raptors

The Curious Nature of Diurnal Birds of Prey

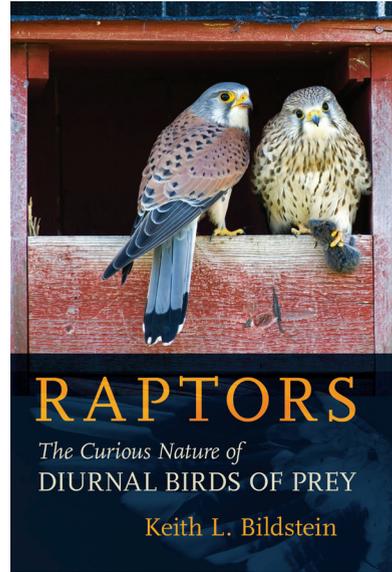
KEITH L. BILDSTEIN

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 hardcover
336 pages, 6 x 9



"The text is well written, yet contains significant information the general reader will consider esoteric. Clearly, this is a labor of love for the author and it shows on every page. Any individual keenly interested in birds of prey will find this an entertaining read. Libraries with strong ornithological holdings will want a copy, but libraries with limited natural science sections may also find it attractive."—P. K. Lago, University of Mississippi, *Choice*

"A clarifying perspective on a very complex subject. . . . [Bildstein] notes the many deficiencies in our knowledge and the possible ways we can fill the gaps.... 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, with a global scope, arranged in an interesting and sometimes novel way that will keep any enquiring reader entertained and informed."—*Birdwatch*

Birds of Aruba, Bonaire, and Curaçao

A Site and Field Guide

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

CHOICE MAGAZINE OUTSTANDING ACADEMIC TITLE

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*.

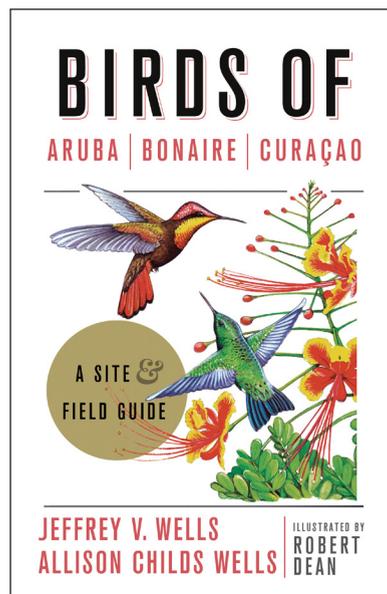
ALLISON CHILDS WELLS is Senior Director of Public Affairs at the Natural Resources Council of Maine. She is coauthor, with Jeffrey V. Wells, of *Maine's Favorite Birds* and *Birds of Sapsucker Woods*.

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.

ZONA TROPICAL PUBLICATIONS

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488 pages, 5.5 x 8.5, color throughout



"This guide to the more than 280 bird species seen on Aruba, Bonaire, and Curaçao is accessible to both beginners and experts. In this work that serves as both a site guide and a field guide to the islands' birds, readers will find excellent maps and illustrations along with detailed bird descriptions. The section on conservation adds awareness of the threats to the birds and to the habitats on which they rely. This reliable and enjoyable resource is recommended to public libraries."—Thomas E. Baker, *American Reference Books Annual*

"The authors are professional musicians(!), obviously accomplished birders, and well-published authors, and they have produced a really nice book here. This book is an absolute must for birders traveling to the islands."—*Choice*

"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)

Zoo Ethics

THE CHALLENGES OF COMPASSIONATE CONSERVATION



JENNY GRAY



The East Country

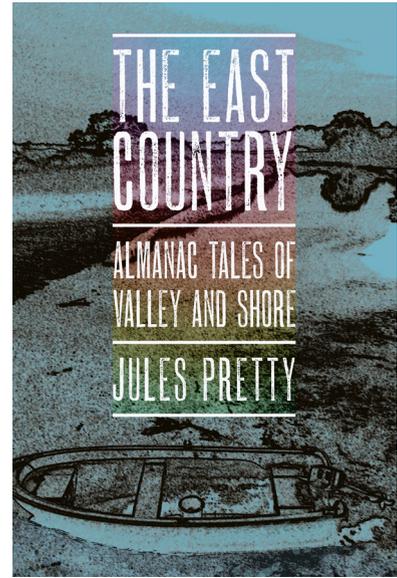
Almanac Tales of Valley and Shore

JULES PRETTY

WINNER OF THE EAST ANGLIAN BOOK OF THE YEAR AWARD

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*, *This Luminous Coast*, 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 suggests. ‘It is just that we might not.’”—*Times Higher Education*

“I’m in step with Prof Jules Pretty. Who wouldn’t be, when he rightly recognises the link between a healthy natural world and good mental health in humans – and trumpets the message? Like him, I love getting outdoors to feel the sun (and rain) on my skin and notice the different rhythm. You could say I’ve bought the T-shirt along with the waterproof walking boots and warm coat.”—*The East Anglian Daily Times*

“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 *andmarks*

“A brave and visionary book.”—Douglas E. Christie, author of *The Blue Sapphire of the Mind*

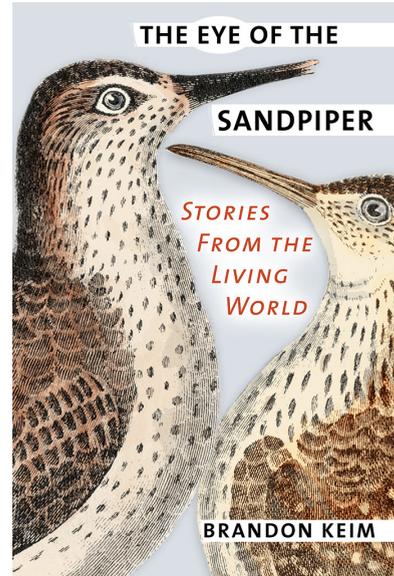
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158 pages, 6 x 9, 14 halftones



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.

“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*

“Provides accessible and beautifully written food for thought for ecologists.”—*The Quarterly Review of Biology*

“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*

\$19.95 paperback | **\$9.99** epub
266 pages, 6 x 9

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.

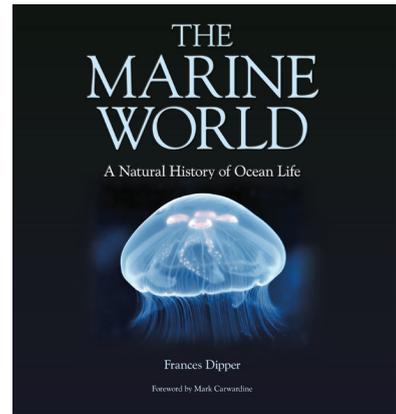
The Marine World is the product of a lifetime spent by Frances Dipper observing and studying marine organisms the world over. It has been brought to colorful life by a myriad of enthusiastic underwater photographers and by Marc Dando, the renowned natural history illustrator.

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 hardcover

544 pages, color throughout, 8.5 x 9



"For those who want an introduction to a wide swath of ocean biodiversity and conservation resources, Dipper's volume should certainly be considered."—*The Quarterly Review of Biology*

Do Elephants Have Knees?

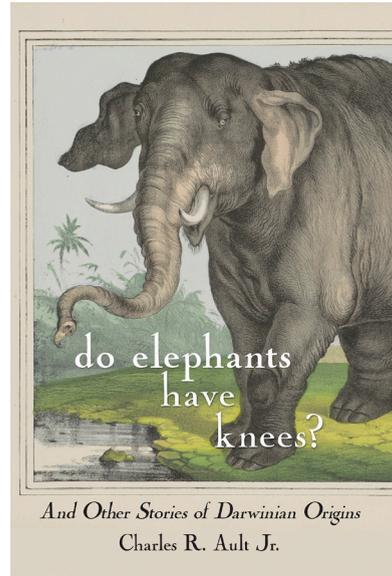
And Other Stories of Darwinian Origins

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, National Earth Science Teachers Association

\$27.95 hardcover | **\$13.99** epub
240 pages, 6 x 9, 11 halftones, 26 line figures

Origins

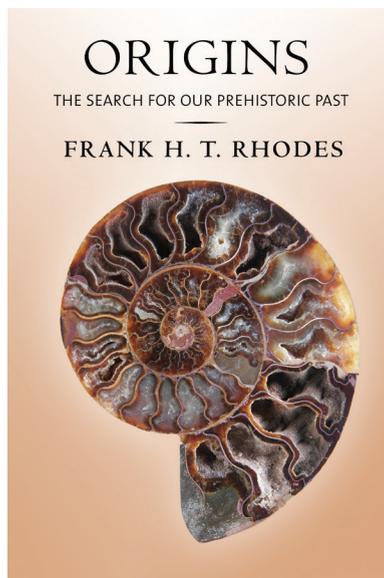
The Search for Our Prehistoric Past

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.



“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

\$29.95 hardcover | **\$14.99** epub

344 pages, 6 x 9, 69 halftones, 1 line figure, 1 map, 4 tables, 2 charts

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*.

\$24.95 paperback

352 pages, 6 x 9, 619 color photographs, 182 maps, 153 line figures



MOSSSES, LIVERWORTS, and HORNWORTS | RALPH POPE

A FIELD GUIDE to Common Bryophytes of the Northeast



"A remarkable book that bridges the gap between dense technical manuals and superficial field guides and covers these interesting plants in remarkable depth and detail for such a compact volume. . . . More than being just a simple identification guide, this book is a thoughtful interpretation of the flora with a much greater wealth of biological, ecological, and bibliographic information that is found in most field guides. Its rigor and friendly tone should inspire botanists to enter the miniature world of mosses, liverworts, and hornworts."—*Castanea*

"The inclusion of some of the more commonly used technical terms makes the book a good educational tool that can help people transition from amateur bryology to more advanced study. . . . Pope's inclusion of similar species in his species accounts and species lists eliminates some of the uncertainty that the user may be experiencing and maximizes the guide's use for both amateurs and those seeking to delve a little deeper into bryology."—*Rhodora*

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.

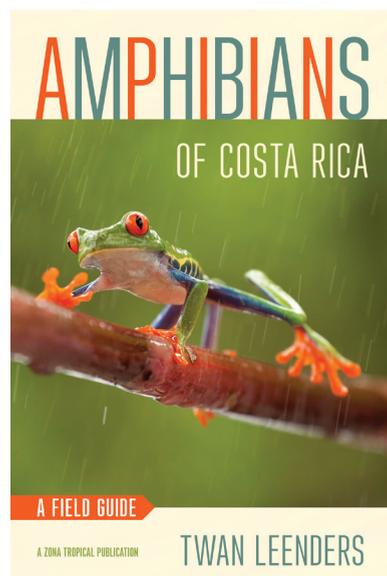
Author, photographer, and conservation biologist Twan Leenders has been studying the herpetofauna of Central America for more than twenty years. Leenders and his team of researchers have traipsed the rainforests, dry forests, and swamps of Costa Rica to put together the richest collection of photographs 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*, also from Cornell, and author of *A Guide to Amphibians and Reptiles of Costa Rica*.

ZONA TROPICAL PUBLICATIONS

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"Amphibians of Costa Rica is one of the best books of this kind published thus far for Costa Rica."—*Herpetological Review*

"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

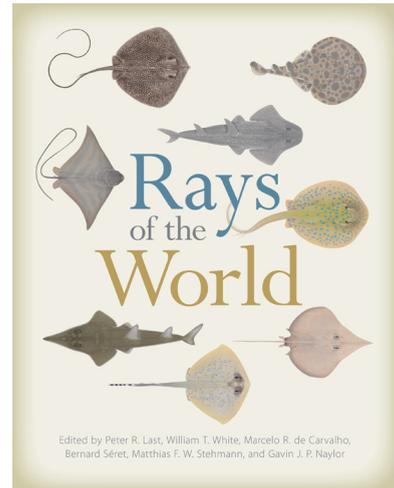
EDITED BY PETER R. LAST, WILLIAM T. WHITE, MARCELO R. DE CARVALHO, BERNARD SERET, MATTHIAS F. W. STEHMANN, AND GAVIN J. P. NAYLOR

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, 8.5 x 11, color throughout



“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*

Research in Outdoor Education

EDITED BY TIM O'CONNELL AND
GARRETT HUTSON

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 enrichment, and research that directly supports systematic assessment and/or evidence-based advances in outdoor education.

Research in Outdoor Education is intended to appeal to researchers, practitioners, teachers and post-secondary students through the exploration and discussion of diverse perspectives on the theoretical, empirical, and practical aspects of outdoor education in its broadest sense.

For author guidelines or to submit a manuscript, contact:

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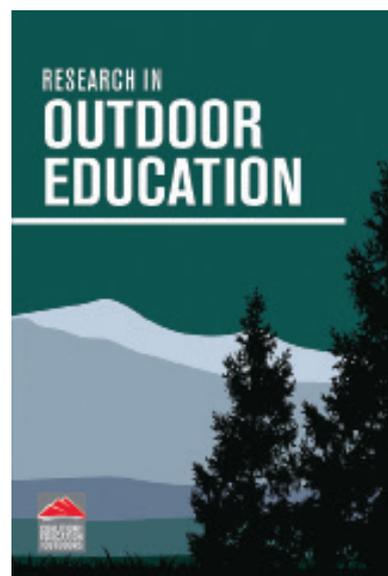
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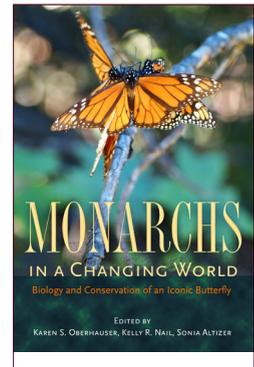
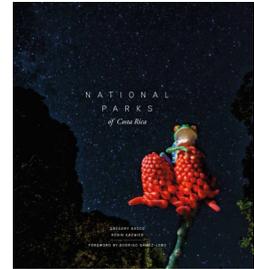
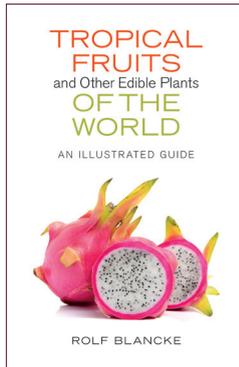
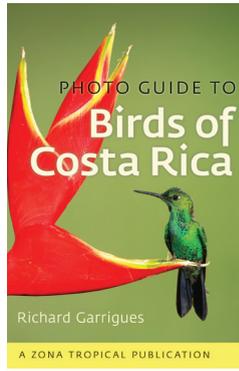
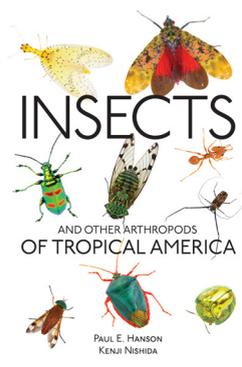
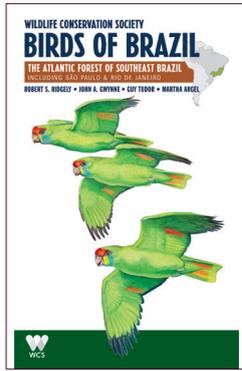
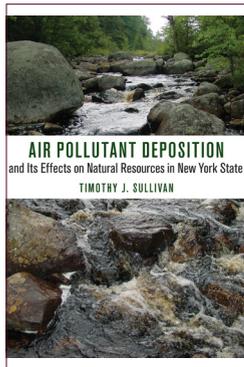
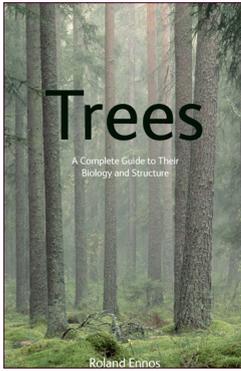
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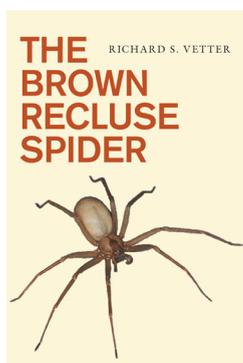
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Biology and Conservation of an Iconic Butterfly

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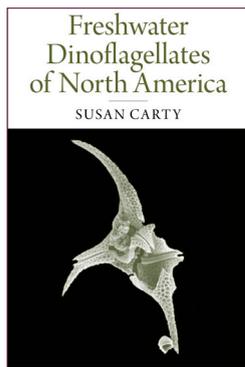
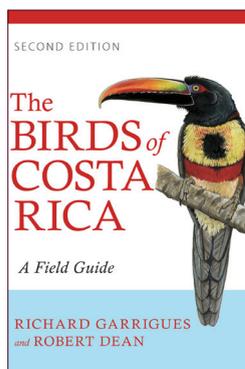
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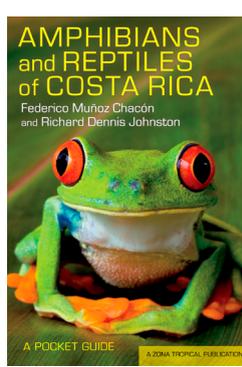
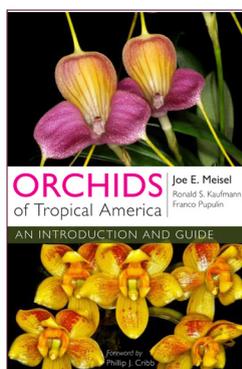
RICHARD S. VETTER

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Freshwater Dinoflagellates of North America

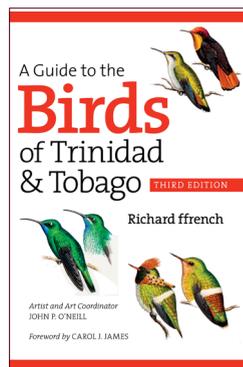
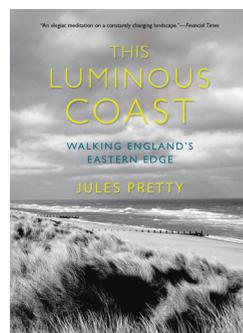
SUSAN CARTY



AMPHIBIANS and REPTILES of COSTA RICA

Federico Muñoz Chacón
and Richard Dennis Johnston

A POCKET GUIDE
A ZONA TROPICAL PUBLICATION



A Guide to the **Birds** of Trinidad & Tobago

THIRD EDITION

Richard Ffrench

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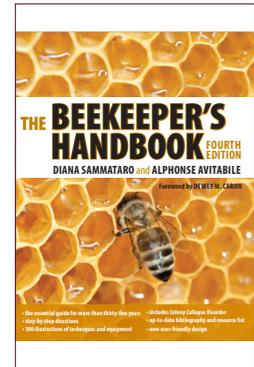
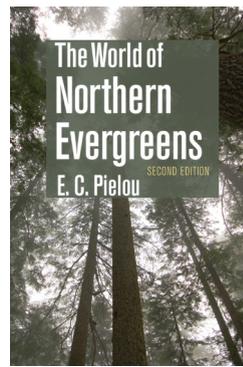
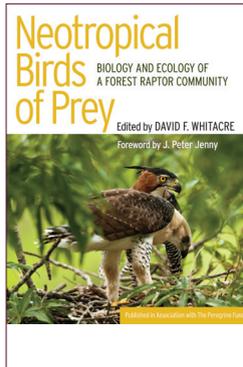
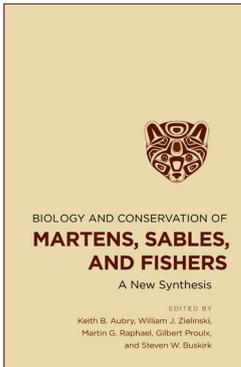
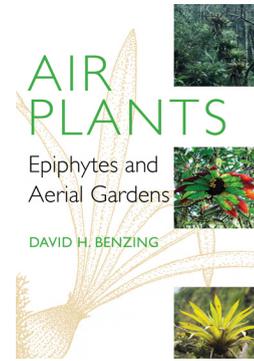
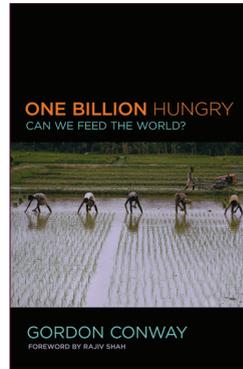
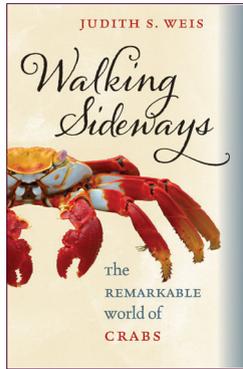
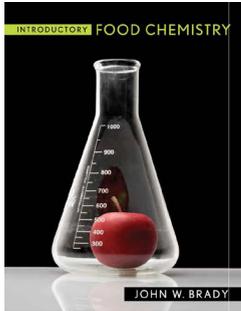
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