

ORNITHOLOGY

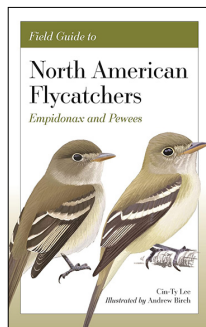
Field Guide to North American Flycatchers: Empidonax and Pewees

By Cin-Ty Lee. Illustrations by Andrew Birch. 2023. Princeton University Press. 168 pages, 55 pages of colour and black and white illustrations, and 19 pages of maps, 24.99 CAD, Paper, 19.99 CAD, E-book.

Many birders talk about “confusing fall warblers” because at that time of year the birds no longer have their colourful spring breeding plumages. I find flycatchers in the fall to be even more confusing. (At least in the spring you might hear a song to help you with identification!) This new *Field Guide to North American Flycatchers* should help anyone who shares the same angst.

Lee’s stated goal in producing this guidebook is to create “a more holistic approach: not just focusing on plumage features but also looking at overall structure, shape, size, and impression” or “gestalt” (p. 1). Using words and painted illustrations, Lee and Birch contrast the shapes and proportions of different species, along with their voices, habitats, behaviours, and seasonal statuses.

Over 20 pages at the beginning of the book are dedicated to the main field marks that the authors suggest one should study: crown shape, forehead angle, bill length, lower mandible colour, tail length and width, primary projection (relative to tertials), wing-bar contrast (relative to upperparts), wing panel contrast, upper/underpart contrast, eye-ring, and overall colouration. Each of these field mark sections has an explanation on the left-hand page and multiple colour illustrations on the right-hand page, some of which are accompanied by line drawings that show the differences among, for example, the various crown



shapes (i.e., round, flattish, peaked, or crested). Birders often struggle to understand subjective field guide descriptions—such as short, medium, and long—but this guide does the best job I’ve seen in clarifying and illustrating these subtle differences. Beside each field mark illustration is a list of species that generally show that characteristic. But Lee and Birch don’t stop there. They have compiled a one-page Field Mark Matrix (scan it for a handy cheat sheet) and two comparison plates, one for western birds and one for eastern birds. Another interesting feature is a Visual Similarity Map where species are arranged according to how similar they appear to each other. Those that are nearly identical overlap, such as Willow (*Empidonax traillii*) and Alder (*Empidonax alnorum*) Flycatchers.

Each species account has sections on size, general identification, habitat, similar species, voice, one or more spectrograms with mnemonics or other notes, multiple illustrations showing salient field marks, side-by-side comparisons of similar species (often both in colour and pen-and-ink), and two range maps.

The range maps are unique. Each starts with a standard colour map showing breeding, migration, wintering, and year-round ranges. However, one map is overlaid with arrows showing spring migration directions and approximate routes, and the second map depicts fall migration patterns. Contour lines on each map show the approximate arrival months (solid line) and arrival weeks (dotted line) of each species on a continental scale. Each map is accompanied by a series of simple horizontal graphs showing the relative seasonal abundance at various localities throughout the calendar year. For example, Olive-sided

Flycatcher (*Contopus cooperi*) spring migration graphs are for Yukon, Newfoundland, southern British Columbia, Ohio, the Upper Texas Coast, and southeastern Arizona; the fall migration graphs are for southern California, southern Mexico, and Colombia. At first glance these maps seem confusing, but with a little effort to understand them they are very useful.

The detail provided can be overwhelming at first, but a methodical study of this book will be invaluable to any birder, regardless of skill level. Sometimes unique features in a book are just window dressing, but in this case they contribute to the authors' goal to "make *Empidonax* identification a possibility for

everyone" (p. 1). While I have had this small book for many months, I feel that I have barely scratched the surface in what I can learn from it. This is the first field guide that Princeton published on this difficult family group; the second, *Field Guide to North American Flycatchers: Kingbirds and Myiarchus*, also by Lee and Birch, was published in April 2024. You can also watch a webinar that Lee and Birch gave to the Santa Clara Valley Audubon Society, which is available online at <https://www.youtube.com/watch?v=3t6CA2Akbwc>.

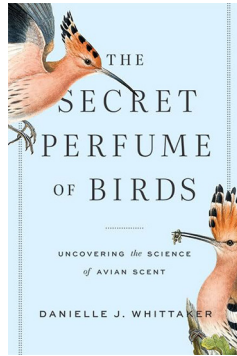
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The Secret Perfume of Birds: Uncovering the Science of Avian Scent

By Danielle J. Whittaker. 2022. Johns Hopkins University Press. 296 pages, 11 black and white photos, and 14 black and white illustrations, 36.95 CAD, Hardcover. Also available as an E-book.

When Whittaker was a post-doctoral researcher, she was annoyed by the conventional wisdom that said birds did not possess a sense of smell. There were acknowledged exceptions—such as vultures that can smell carrion—but it didn't make sense to her that a whole class of animals would lack this ability. She felt that researchers "were asking the wrong questions, muddling the answers, and coming to unsupported conclusions" (p. 8). Her scientific pursuit of this question, and the convoluted route she took to do so, is the basis of *The Secret Perfume of Birds*.



Olfaction is the ability to smell, named for the olfactory bulb, which is the part of the brain that receives information from receptors in the nose. (Throughout the book, specialized words are in italics; a definition is given either within the text or in a footnote and then explained in more detail in the nine-page Glossary.) When she began her research, Whittaker was particularly interested in how birds use odours in social and reproductive behaviour. Her study subjects were Dark-eyed Juncos (*Junco hyemalis*) because they are common and, as ground feeders and nesters, are also easy to observe and catch. She felt that her research conclusions might apply to other birds with similar biologies, too. Juncos also do well in captivity, which allowed Whittaker and her colleagues to design experiments in a laboratory setting and test various hypotheses. She started with

two basic questions: Did Dark-eyed Juncos detect the smell of other juncos of the same species or unrelated species? If so, what role did these chemical odours play in social and reproductive behaviour?

The uropygial gland, also known as the preen gland, is unique to birds and is located on the dorsal base of the tail. It has long been known that birds spread the gland's secretions (called preen oil) on their feathers to protect them from the elements and ectoparasites, and to maintain their appearance for attracting mates. Preen oil is also the source of body odours in birds. Each species has a specific blend of volatile and semi-volatile chemical compounds in its preen oil, and each individual has different quantities of these compounds, resulting in a unique olfactory signature. Whittaker wanted to know what information these compounds convey about an individual, such as overall health and readiness to breed. She found that scent is helpful to avoid mating with close relatives and preen oil-based odours can predict which individuals have higher numbers and better survival rates of offspring.

The complexity of the research grew when Whittaker and her colleagues discovered that it is a diverse array of symbiotic bacteria living in the uropygial gland that produces the odours important for reproductive behaviour. Social and sexual behaviour then spreads these bacteria quickly between individuals. Whittaker, who studied primates in Indonesia for her Ph.D. in anthropology, linked this research back to her earlier interest in the genetic basis of mate choice through the major histocompatibility complex (MHC). The MHC is a large family of genes that are part of a vertebrate's self-recognition system: proteins coded by MHC genes allow the animal's immune system to detect both itself and any foreign substances

that shouldn't be there. A diverse MHC will result in a less diverse microbiome because the immune system can identify and kill more species of bacteria. Thus, an individual should choose a mate that has more dissimilar MHC genes to ensure more diverse bacteria are identified and killed. It is also possible that mates who have more similar MHC genes seek out extra-pair copulations to ensure their offspring will have more dissimilar MHC.

Whittaker's research on avian scent and odours has also broken away from the gender bias in ornithology, where male birds are typically studied more frequently than females. Males may have the brighter plumage, but when it comes to producing scent females are the champions. In conducting a meta-analysis of studies of avian odours, Whittaker and her colleague Julie Hagelin discovered that females have larger uropygial glands (which produce higher concentrations of chemical compounds), greater diversity of volatile compounds in their preen oil, and more varied bacteria. Both sexes rely on chemical signals for stimulating reproduction, mate attraction (in competition with others of the same sex), and parental care. Whittaker wonders

if one of the reasons that the existence of chemical communications in birds has been overlooked for so long is that many of the lead people researching it, especially early on, have been women. (p. 220)

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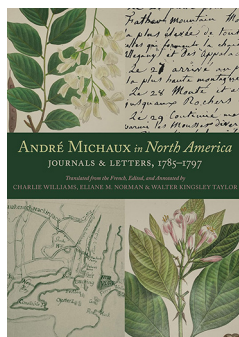
OTHER

André Michaux in North America: Journals & Letters, 1785–1797

Edited by Charlie Williams, Eliane M. Norman, and Walter Kingsley Taylor. Translated by Eliane M. Norman. Foreword by James E. McClellan. 2020. University of Alabama Press. Distributed in Canada by UBC Press. 608 pages, 124 colour figures, 18 black and white figures, and 16 maps, 68.95 CAD, Hardcover.

This weighty tome (literally, it weighs almost 2.3 kg!) provides a day-to-day account of the North American travels and discoveries of iconic 18th century French naturalist André Michaux (1746–1802). Those discoveries were essential in his preparation of *Flora Boreali-Americana* (Parisiiis et Argentorati [i.e., Paris et Strasbourg, France], Apud fratres Levrault, 1803). When posthumously published in 1803, it represented the first flora for eastern North America.

André Michaux in North America does more than



This book is a good example of the scientific method, whereby a researcher forms a hypothesis and tests it, and if the data don't support their original hypothesis, they investigate why they don't and revise their hypothesis. In Whittaker's book, the phrase "it didn't quite turn out as expected" (p. 168) is a common refrain, one not admitted by enough scientists. Whittaker is obviously enthusiastic about her research and the natural world, with a buoyant and at times humorous writing style, poking fun at herself and the situations she found herself in during her research. In this book she has made a complex topic very accessible.

The only error I noticed is on page 2, where Whittaker states that there are nearly 20 000 species of birds—perhaps this total included subspecies? The latest estimate from the International Ornithological Congress is around 11 000 species (IOC 2023). In case the level of detail in this book isn't sufficient for some readers, the 21-page References section, organized by chapter (in smaller font, so there are lots of them), should enable anyone to access more information.

Literature Cited

International Ornithological Congress (IOC). 2023. IOC world bird list version 14.1, updates. Accessed 20 March 2024. <https://www.worldbirdnames.org/new/updates/>.

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just translate his original journals from French. The editors of this attractive and physically well-produced book copiously annotate and expand upon Michaux's raw entries. They fill in many of the frequent gaps in the record with information gleaned from his miscellaneous papers and from correspondence by him and/or his associates.

And what a time he had! Venturing out from Charleston, South Carolina, where he maintained a large garden property, Michaux scoured the wild areas of what is now the eastern United States on foot and by horseback in search of plants of economic, medicinal, or scientific significance. The prize finds were sent back to his royal (and later republican) sponsors in France. Such an undertaking would have been incredibly challenging—even life-threatening—for anyone in the late 18th century. This was a period of

immense political and social upheaval both in North America and back in Europe. The American Revolution had just ended; the French Revolution exploded in the midst of his American period. Working under such conditions would have to have been even more difficult for Michaux, someone raised in the Versailles gardens of Louis XV but now reporting from afar to republican administrations not noted for recent kindness to royalists! However, one of the many insights offered by the supplementary materials gathered by the editors is strong evidence that Michaux was a republican at heart and did not mourn the passing of the French monarchy.

Oddly, the botanical information contained in his field journals is relatively slim. These were essentially daily diaries, highlighting travel and logistical facts but rarely going into great detail on the plants he saw, let alone the particular specimens he collected. While some entries list a dozen or so of the species he encountered in a day, others provide only descriptive statements or generic determinations, and some list no plants at all. That is frustrating, especially for Canadian botanists interested in details of Michaux's monumental canoe trip into northern Quebec. Some Quebec entries, like that for 22 August 1792 on the Mistassini River north of Lac Saint-Jean (p. 185), offer fulsome landscape descriptions but virtually nothing on the plant species he saw. The editors provide valuable supplementary information in this case, however, obtained from a list found elsewhere amongst Michaux's papers. Thankfully, they do this in many other places in the book, too. Of particular value are the footnotes, which untangle the often-fragmentary descriptions and archaic nomenclature employed by Michaux and express likely meanings in contemporary terms (e.g., suggesting that "*Cerasus racemosa* petioles glandular" [p. 186] may indicate these Mistassini River plants were Choke Cherry [*Prunus virginiana* L.] [p. 472]). Yet many of the journal entries record little more than logistical issues and a notation of the distance travelled that day.

I had hoped to see some mention of the Mistassini Primrose (*Primula mistassinica*) that Michaux famously discovered at Lac Mistassini between 4 and 7 September 1792, and which he described as new to science in *Flora Boreali-Americana*. Its absence from the journal entries seems odd, as Michaux would undoubtedly have immediately recognized this distinctive plant to be something unusual, if not unique.

Providing such an abundance of information unavoidably makes for a lengthy volume. Significant reductions in the book's length (and cost) could have

been realized with no significant loss of understanding by a judicious editing of certain sections. The Foreword goes on for nine pages where one (or two) would have done the trick. Omitting an 18-page, full-colour Appendix (pp. 355–372) comprised of pleasant but only marginally useful photos of some of the taxa mentioned would surely have reduced publication costs. And was there really a need for six pages of names in the Acknowledgements?

On the other hand, the Table of Described Plants (pp. 373–414) that identifies and then cites page numbers for every Michaux journal observation is pure gold. Indeed, this and the superb biographical sketch of Michaux's life and scientific contributions (pp. 1–24) will probably be of greatest interest to most readers. Those of us more deeply interested in the details of Michaux's peregrinations will greatly appreciate the numerous and informative footnotes populating most pages.

I found the placement of the text for the footnotes in stand-alone listings at the back of the book, their numbering restarting with each chapter, to be unnecessarily cumbersome. Having footnote numbers running continuously throughout the volume would have been simpler. It would also significantly reduce the annoying degree to which flipping back and forth is required to keep up with the valuable commentaries provided by the editors.

Those commentaries are particularly rich in detail about the people and places Michaux encountered, especially in the southern United States. Details in the footnotes underscore what a high-powered sociopolitical world Michaux operated in when he was not slogging through swamps, climbing the Appalachian Mountains, or sailing along the Spanish-held islands off the Florida coast. He routinely associated with members of the elite of the time, including such famous intellectual and political American personalities as Thomas Jefferson and George Washington.

André Michaux in North America is more a scholarly reference book than it is a can't-put-it-down adventure tale. However, the information and insights the editors provide (and I've not even mentioned their commentaries of Michaux's political intrigues against the Spanish on behalf of France and the United States during this time) could very well support the telling of such a tale. In detailing all this for a contemporary audience, the editors have served the history of North American botanical exploration very well. Still, I can't wait for the movie!

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NEW TITLES

Prepared by Jessica Sims

If you are interested in reviewing a book on this list, please contact Jessica Sims (bookrevieweditor@canadianfieldnaturalist.ca). This list covers a range of upcoming and new releases in field biology, ecology, and natural history. We also welcome your suggestions for new titles and offers to review unlisted books with a Canadian connection, including those on any species (native or non-native) that inhabits Canada, or books covering topics of global relevance, including climate change, biodiversity, species extinction, habitat loss, evolution, and field research experiences.

Please note: Books marked with a * have already been assigned to a *Canadian Field-Naturalist* reviewer. All other books are available for review and review copies of books marked with a † have been explicitly offered by publishers.

Currency Codes: CAD Canadian Dollars, AUD Australian Dollars, USD United States Dollars, EUR Euros, GBP British Pounds.

BIOLOGY

The Benefits of Imperfection: Biology, Society, and Beyond. By Olivier Hamant. 2024. CRC Press. 208 pages, 267.50 CAD, Hardcover.

The Catalyst: RNA and the Quest to Unlock Life's Deepest Secrets. By Thomas R. Cech. 2024. W.W. Norton. 304 pages, 38.99 CAD, Hardcover, 26.99 CAD, E-book.

Color in Nature. By Justin Marshall, Thomas Cronin, Sönke Johnsen, Ron Douglas, Anya Hurlbert, Jane Boddy, and Fabio Cortesi. 2024. Princeton University Press. 288 pages and 150+ colour illustrations, 44.00 CAD, Hardcover. Also available as an E-book.

The Emotional Lives of Animals: a Leading Scientist Explores Animal Joy, Sorrow, and Empathy—and Why They Matter. Edition, Revised and Updated. By Marc Bekoff. Foreword by Jane Goodall. 2024. New World Library. 272 pages, 30.50 CAD, Paper, 25.99 CAD, E-book.

Evolution Evolving: the Developmental Origins of Adaptation and Biodiversity. By Kevin N. Lala, Tobias Uller, Nathalie Feiner, Marcus Feldman, and Scott F. Gilbert. Illustrations by David Andrews. 2024. Princeton University Press. 440 pages and 19 black and white illustrations, 57.00 CAD, Hardcover. Also available as an E-book.

A Little Queer Natural History. By Josh L. Davis. 2024. University of Chicago Press. 128 pages, 20.95 CAD, Paper. Also available as an E-book.

Living on Earth: Forests, Corals, Consciousness, and the Making of the World. By Peter Godfrey-Smith. 2024. Farrar, Straus and Giroux. 336 pages, 39.00 CAD, Hardcover, 16.99 CAD, E-book.

Meet the Neighbors: Animal Minds and Life in a More-than-Human World. By Brandon Keim.

2024. W.W. Norton. 368 pages, 39.99 CAD, Hardcover, 30.99 CAD, E-book.

The Network of Life: a New View of Evolution. By David P. Mindell. 2024. Princeton University Press. 272 pages, 36 black and white illustrations, and 14 tables, 35.00 CAD, Hardcover. Also available as an E-book.

Sensory Systems of Animals: Biology and Behavior. By Mark Hollins. 2024. CRC Press. 304 pages, 349.99 CAD, Hardcover, 137.99 CAD, Paper.

The Well-Connected Animal: Social Networks and the Wondrous Complexity of Animal Societies. By Lee Alan Dugatkin. 2024. University of Chicago Press. 264 pages, 10 colour plates, and 6 halftones, 29.00 USD, Hardcover. Also available as an E-book.

Why Animals Talk: the New Science of Animal Communication. By Arik Kershenbaum. 2024. Penguin Press. 288 pages, 39.99 CAD, Hardcover, 16.99 CAD, E-book.

BOTANY

Do Plants Know Math? Unwinding the Story of Plant Spirals, from Leonardo da Vinci to Now. By Stéphane Douady, Jacques Dumais, Christophe Golé, and Nancy Pick. 2024. Princeton University Press. 352 pages and 208 colour illustrations, 35.00 CAD, Hardcover. Also available as an E-book.

The Heart of the Woods. By Wyl Menmuir. 2024. Aurum. 336 pages, 27.95 CAD, Hardcover.

How to be a Bad Botanist. By Simon Barnes. Illustrations by Cindy Lee Wright. 2024. Simon and Schuster. 288 pages, 16.99 GBP, Hardcover, 9.99 GBP, E-book.

The Light Eaters: How the Unseen World of Plant Intelligence Offers a New Understanding of Life

on Earth. By Zoë Schlanger. 2024. HarperCollins. 304 pages, 36.99 CAD, Hardcover, 14.99 CAD, E-book.

Oaklore: Adventures in a World of Extraordinary Trees. By Jules Acton. 2024. Greystone Books. 272 pages, 32.95 CAD, Hardcover.

Our Green Heart: the Soul and Science of Forests. By Diana Beresford-Kroeger. 2024. Random House of Canada. 216 pages, 35.00 CAD, Hardcover, 16.99 CAD, E-book.

Plants and Fungi: the Definitive Visual Encyclopedia. DK Definitive Visual Encyclopedias. By DK. 2024. DK. 448 pages, 66.00 CAD, Hardcover. Also available as an E-book.

Poisonous Plants. Kew Pocketbooks. By Melanie-Jayne Howes and Eliot Jan-Smith. 2024. Royal Botanic Gardens, Kew. Distributed by University of Chicago Press. 96 pages and 40 colour plates, 19.50 CAD, Hardcover.

Redouté: Fabulous Flowers. By Pierre-Joseph Redouté. 2024. Dover Publications. 192 pages, 33.75 CAD, Hardcover. Also available as an E-book.

Rooted in Time: Living Fossils and Other Tenacious Plants. By Carole T. Gee. Illustrations by Channing Redford. 2024. Johns Hopkins University Press. 280 pages, 135 colour photos, and 12 black and white illustrations, 51.95 CAD, Hardcover. Also available as an E-book.

Smithsonian Trees of North America. By W. John Kress. Foreword by Lonnie G. Bunch and Margaret D. Lowman. 2024. Yale University Press. 800 pages, 3626 colour illustrations, and 300+ maps, 97.50 CAD, Hardcover.

†**Treewilding: Our Past, Present and Future Relationship with Forests.** By Jake M. Robinson. 2024. Pelagic Publishing. 336 pages, 37.00 CAD, Hardcover.

Wild Harvest: Edible Plants of the Pacific Northwest. By Terry Domico. 2024. Hancock House. 88 pages and 42 illustrations, 15.95 CAD, Paper.

CONSERVATION AND CLIMATE CHANGE

After Ice: Cold Humanities for a Warming Planet. Edited by Rafico Ruiz, Paula Schönach, and Rob Shields. Foreword by Emma Kowal and Joanna Radin. 2024. UBC Press. 280 pages and 20 black and white photos, 99.00 CAD, Hardcover.

The Age of Melt: What Glaciers, Ice Mummies, and Ancient Artifacts Teach Us about Climate, Culture, and a Future Without Ice. By Lisa Baril. 2024. Timber Press. 272 pages, 39.00 CAD, Hardcover, 19.99 CAD, E-book.

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Beautiful Beasts, Beautiful Lands: the Fall and Rise of an African National Park. By Mark Infield. 2024. Whittles Publishing. 240 pages, 31.95 CAD, Paper.

Before They Vanish: Saving Nature's Populations—and Ourselves. By Paul R. Ehrlich, Gerardo Ceballos, and Rodolfo Dirzo. Foreword by Jared Diamond. 2024. Johns Hopkins University Press. 384 pages, 38.95 CAD, Hardcover.

The Biology and Conservation of Animal Populations. By John A. Vucetich. 2024. Johns Hopkins University Press. 312 pages, 8 black and white photos, and 86 black and white illustrations, 97.95 CAD, Hardcover. Also available as an E-book.

Burn Scars: a Documentary History of Fire Suppression, from Colonial Origins to the Resurgence of Cultural Burning. By Char Miller. 2024. Oregon State University Press. 272 pages, 43.95 CAD, Paper.

Copout: How Governments Have Failed the People on Climate—an Insider's View of Climate Change Conferences, from Paris to Dubai. By Nick Breeze. 2024. Palazzo Editions. 240 pages, 22.99 CAD, Paper.

†**Cull of the Wild: Killing in the Name of Conservation.** By Hugh Warwick. 2024. Bloomsbury USA. 304 pages, 37.00 CAD, Hardcover, 20.99 CAD, E-book.

Flourishing in the Age of Climate Change. By William M. Throop. 2024. Cornell University Press. 224 pages, 30.95 CAD, Paper. Also available as an E-book.

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The Green Ages: Medieval Innovations in Sustainability. By Annette Kehnel. 2024. Brandeis University Press. Distributed by University of Chicago Press. 352 pages, 45.50 CAD, Hardcover.

Groundbreakers: the Return of Britain's Wild Boar. By Chantal Lyons. 2024. Bloomsbury USA. 288 pages, 37.00 CAD, Hardcover, 20.99 CAD, E-book.

The Heart of the Wild: Essays on Nature, Conservation, and the Human Future. Edited by Ben A. Minteer, Jonathan B. Losos, and Bill Adams. 2024. Princeton University Press. 280 pages and 26 black and white illustrations, 58.50 CAD, Hardcover. Also available as an E-book.

Heat, a History: Lessons from the Middle East for a Warming Planet. By On Barak. 2024. University of California Press. 322 pages, 119.00 CAD, Hardcover, 37.95 CAD, Paper. Also available as an E-book.

Intertwined: from Insects to Icebergs. By Michael Gross. 2024. Johns Hopkins University Press. 424 pages, 42.95 CAD, Hardcover. Also available as an E-book.

Into the Clear Blue Sky: the Path to Restoring Our Atmosphere. By Rob Jackson. 2024. Scribner. 304 pages, 39.99 CAD, Hardcover, 20.99 CAD, E-book.

The Land is Our Community: Aldo Leopold's Environmental Ethic for the New Millennium. By Roberta L. Millstein. 2024. University of Chicago Press. 184 pages, 149.50 CAD, Hardcover, 37.95 CAD, Paper. Also available as an E-book.

The Last Sunset in the West: Britain's Vanishing West Coast Orcas. By Natalie Sanders. 2024. Birlinn. 320 pages, 19.99 CAD, Paper.

Nature-First Cities: Restoring Relationships with Ecosystems and with Each Other. By Cam Brewer, Herb Hammond, and Sean Markey. Foreword by Faisal Moola and David Suzuki. 2024. UBC Press. 224 pages, 48 black and white photos, 9 illustrations, and 9 maps, 39.95 CAD, Paper.

Nature's Ghosts: the World We Lost and How to Bring It Back. By Sophie Yeo. 2024. HarperCollins. 320 pages, 36.99 CAD, Hardcover, 22.99 CAD, E-book.

Nuclear is Not the Solution: the Folly of Atomic Power in the Age of Climate Change. By M.V. Ramana. 2024. Verso Books. 272 pages, 35.95 CAD, Hardcover, 11.99 CAD, E-book.

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Philosopher Fish: Sturgeon, Caviar, and the Geography of Desire. Edition, Revised and Updated. By Richard Adams Carey. 2024. Brandeis University Press. Distributed by University of Chicago Press. 352 pages, 45.50 CAD, Paper.

Polar and Climate Change Education: Citizen Science and Sustainability. Research and Teaching in Environmental Studies. Edited by Gisele M. Arruda. 2024. Routledge. 176 pages and 76 black and white illustrations, 331.50 CAD, Hardcover.

Proven Climate Solutions: Leading Voices on How to Accelerate Change. Edited by B.F. Nagy. 2024. Rowman & Littlefield. 238 pages, 47.00 CAD, Hardcover.

Rewilding the Urban Frontier: River Conservation in the Anthropocene. Edited by Greg Gordon. 2024. University of Nebraska Press. 344 pages, 87.95 CAD, Hardcover.

River Profiles: the People Restoring Our Waterways. By Pete Hill. 2024. Columbia University Press. 288 pages, 156.00 CAD, Hardcover, 39.00 CAD, Paper. Also available as an E-book.

Saving the World: How Forests Inspired Global Efforts to Stop Climate Change. By Brett M. Bennett and Gregory A. Barton. 2024. Reaktion Books. Distributed by University of Chicago Press. 256 pages, 32.50 CAD, Hardcover. Also available as an E-book.

†Sea Change: Charting a Sustainable Future for Oceans in Canada. Sustainability and the Environment Series. Edited by Ussif Rashid Sumaila, Derek Armitage, Megan Bailey, and William W.L. Cheung. 2024. UBC Press. 276 pages, 45.00 CAD, Paper. Also available as an E-book.

A Sea Full of Turtles: the Search for Optimism in an Epoch of Extinction. By Bill Streever. 2024. Pegasus Books. 256 pages, 38.95 CAD, Hardcover.

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Voices for the Islands: Thirty Years of Nature Conservation on the Salish Sea. By Sheila Harrington. Foreword by Briony Penn. 2024. Heritage House. 288 pages, 34.95 CAD, Paper, 11.99 CAD, E-book.

What We Leave Behind: a Birdwatcher's Dispatches from the Waste Catastrophe. By Stanislaw Lubinski. 2024. Hodder. 272 pages, 24.99 CAD, Paper, 5.99 CAD, E-book.

What the Wild Sea Can Be: the Future of the World's Ocean. By Helen Scales. 2024. Grove/Atlantic. 320 pages, 42.95 CAD, Hardcover.

When the Ice is Gone: What a Greenland Ice Core Reveals about Earth's Tumultuous History and Perilous Future. By Paul Bierman. 2024. W.W. Norton. 304 pages, 36.99 CAD, Hardcover, 26.99 CAD, E-book.

ECOLOGY

Hedgeland [US Edition]: a Wild Wander Around Britain's Greatest Habitat. By Christopher Hart. 2024. Chelsea Green Publishing. 208 pages, 33.95 CAD, Paper.

Into the Great Wide Ocean: Life in the Least Known Habitat on Earth. By Sönke Johnsen. 2024. Princeton University Press. 224 pages and 15 black and white illustrations, 32.00 CAD, Hardcover. Also available as an E-book.

James Prosek Grasslands: Painting the American Prairie. By James Prosek. Contributions by Andrew J. Walker, Andrew Graybill, Spencer Wigmore, Margaret Adler, and Matt White. 2024. Rizzoli. 160 pages, 60.00 CAD, Hardcover.

†**Principles of Soundscape Ecology: Discovering Our Sonic World.** By Bryan C. Pijanowski. 2024. University of Chicago Press. 456 pages, 80 halftones, and 28 tables, 214.50 CAD, Hardcover, 71.50 CAD, Paper. Also available as an E-book.

Sing Like Fish: How Sound Rules Life under Water. By Amorina Kingdon. 2024. Crown. 336 pages, 39.99 CAD, Hardcover, 16.99 CAD, E-book.

The World Atlas of Deserts and Drylands. Edited by David Thomas. 2024. Princeton University Press. 400 pages and 250+ colour illustrations, 75.00 CAD, Hardcover. Also available as an E-book.

ENTOMOLOGY

The Ant Collective: Inside the World of an Ant Colony. By Armin Schieb. 2024. Princeton University Press. 128 pages and 120 colour illustrations, 32.00 CAD, Hardcover, 24.99 CAD, E-book.

Conservation of Dragonflies: Sentinels for Freshwater Conservation. By Michael J. Samways. 2024. CABI. 640 pages, 253.50 CAD, Hardcover. Also available as an E-book.

Dragonflies of North America. By Ed Lam. 2024. Princeton University Press. 448 pages and 1850+ co-

lour illustrations, 44.00 CAD, Paper. Also available as an E-book.

Heart of the Hive: Inside the Mind of the Honey Bee and the Incredible Life Force of the Colony. By Hilary Kearney. Photography by Eric Tourneret. 2024. Storey Publishing, LLC. 200 pages, 36.00 CAD, Hardcover.

The Honey Trap: How the Good Intentions of Urban Beekeepers Risk Ecological Disaster. By Dana Church. 2024. Sutherland House Books. 250 pages, 27.95 CAD, Paper.

The Lives of Bees: a Natural History of Our Planet's Bee Life. The Lives of the Natural World No. 9. By Christina Grozinger and Harland Patch. 2024. Princeton University Press. 288 pages and 150+ colour illustrations, 44.00 CAD, Paper. Also available as an E-book.

The Monarch Butterfly Migration: Its Rise and Fall. By Monika Maeckle. 2024. University of Oklahoma Press. 240 pages, 40.95 CAD, Hardcover.

Routledge Handbook of Insect Conservation. Routledge Environment and Sustainability Handbooks. Edited By James S. Pryke, Michael J. Samways, Tim R. New, Pedro Cardoso, and René Gaigher. 2024. Routledge. 586 pages and 74 colour illustrations, 399.95 CAD, Hardcover, 71.99 CAD, E-book.

Six-Legged Ghosts: the Insects of Aotearoa. By Lily Duval. 2024. Canterbury University Press. 296 pages and 100+ colour illustrations, 46.00 CAD, Hardcover.

†**What Do Bees Think about?** Animal Worlds Series. By Mathieu Lihoreau. Translated by Alison Duncan. 2024. Johns Hopkins University Press. 176 pages, 28.95 CAD, Paper, 21.99 CAD, E-book.

HERPETOLOGY

Crocodiles, Alligators and Lizards: from Black Caimans to Komodo Dragons. By David Alderton. 2024. Amber Books. 224 pages, 38.99 CAD, Hardcover.

The Frog Book. The Nature Book Series. By Jo Byrne. 2024. Graffeg. 160 pages, 22.99 CAD, Hardcover.

Frog Day: a Story of 24 Hours and 24 Amphibian Lives. Earth Day Series. By Marty Crump. Illustrations by Tony Angell. 2024. University of Chicago Press. 200 pages and 24 halftones, 23.50 CAD, Hardcover. Also available as an E-book.

Incredible Lizards: One Hundred Species from Around the World. By Steve Wilson. 2024. New Holland Publishers. 216 pages, 47.00 CAD, Hardcover.

Our Sea Turtles: a Practical Guide for the Atlantic and Gulf, from Canada to Mexico. Second Edition. By Blair Witherington and Dawn Witherington. 2024. Globe Pequot. 296 pages, 38.95 CAD, Paper.

Reptiles. By Steve Wilson. 2024. New Holland Publishers. 208 pages, 53.99 CAD, Hardcover.

Salamanders of the Eastern United States. Wormsloe Foundation Nature Books. By Larry Wilson, Whit Gibbons, and Joe Mitchell. 2024. University of Georgia Press. 500 pages, 450 colour photos, and 80+ maps, 48.95 CAD, Paper.

†**Tortoises of the World: Giants to Dwarfs.** By George R. Zug and Devin A. Reese. 2024. Johns Hopkins University Press. 256 pages, 25 colour photos, 15 black and white photos, and 51 black and white illustrations, 64.95 CAD, Hardcover, 49.99 CAD, E-book.

ORNITHOLOGY

The Bird Book: the Stories, Science, and History of Birds. By DK. 2024. DK. 320 pages, 54.00 CAD, Hardcover, 19.99 CAD, E-book.

Bird Photographer of the Year: Collection 9. Edited by Bird Photographer of the Year Limited. Foreword by Simon King. 2024. Princeton University Press. 256 pages, 44.00 CAD, Hardcover. Also available as an E-book.

Birding for Boomers: and Everyone Else Brave Enough to Embrace the World's Most Rewarding and Frustrating Activity. By Sneed B. Collard III. Illustrations by Tanner Barkin. 2024. Mountaineers Books. 224 pages, 32.95 CAD, Paper.

Birds: the Art of Ornithology. By Jonathan Elphick. 2024. Natural History Museum, London. 224 pages, 33.99 CAD, Hardcover.

The Birds that Audubon Missed: Discovery and Desire in the American Wilderness. By Kenn Kaufman. 2024. Avid Reader Press/Simon & Schuster. 400 pages, 44.00 CAD, Hardcover, 33.99 CAD, E-book.

†**Birds of North America: a Photographic Atlas.** By Bruce M. Beehler. Photography edited by Brian E. Small. 2024. Johns Hopkins University Press. 560 pages, 1173 colour photos, 39 colour illustrations, and 735 maps, 77.95 CAD, Hardcover.

City Bird: Explore the Charming Metropolitan Melodies of Our Feathered Friends. By Angela Harrison Vinet and Janis Hatten Harrison. 2024. Epic Ink. 128 pages, 17.99 CAD, Hardcover.

Clinging to the Edge: a Year in the Life of a Little Tern Colony. By Richard Boon. 2024. Pelagic Publishing. 204 pages and colour illustrations, 45.00 USD, Paper. Also available as an E-book.

The Complete Language of Birds: a Definitive and Illustrated History. Complete Illustrated Encyclopedia No. 13. By Randi Minetor. 2024. WellFleet Press. 256 pages, 32.99 CAD, Hardcover.

Cuckoo. By Cynthia Chris. 2024. Reaktion Books. Distributed by University of Chicago Press. 168 pages, 80 colour plates, and 17 halftones, 28.95 CAD, Paper.

†**Dare to Bird: Exploring the Joy and Healing Power of Birds.** By Melissa Hafting. Photography by Melissa Hafting. 2024. Rocky Mountain Books (RMB). 224 pages, 45.00 CAD, Paper, 19.99 CAD, E-book.

The East Atlantic Flyway of Coastal Birds: 50 Years of Exciting Moments in Nature Conservation and Research. Edited by Peter Prokosch. 2024. Lynx Edicions. 232 pages, colour photos, colour illustrations, and colour maps, 29.00 EUR, Hardcover.

Feathered Entanglements: Human-Bird Relations in the Anthropocene. Edited by Scott Simon and Frédéric Laugrand. 2024. UBC Press. 340 pages, 31 black and white photos, 14 tables, 7 charts, and 4 maps, 99.00 CAD, Hardcover.

Ferdinand Bauer's Remarkable Birds. By Jonathan Elphick. 2024. Bodleian Library Publishing. Distributed by University of Chicago Press. 240 pages and 120 colour plates, 146.50 CAD, Hardcover.

The Golden Eagle Around the World: a Monograph on a Holarctic Raptor. Edited by Jesús Bautista and David H. Ellis. 2024. Hancock House. 928 pages and 1150 photos and illustrations, 99.95 CAD, Hardcover.

The Gull Guide: North America. By Amar Ayyash. 2024. Princeton University Press. 512 pages and 1800+ colour photos, 50.00 CAD, Paper. Also available as an E-book.

The New York Pigeon: Behind the Feathers. Second Edition. By Andrew Garn. 2024. powerHouse Books. 160 pages, 53.95 CAD, Hardcover.

Of a Feather. By Thaddeus Holownia and Harry Thurston. 2024. Anchorage Press. 56 pages, 45.00 CAD, Paper.

†**The Shorebirds of North America: a Natural History and Photographic Celebration.** By Pete Dunne and Kevin T. Karlson. 2024. Princeton University Press. 304 pages and 225 colour photos, 44.00 CAD, Hardcover. Also available as an E-book.

Shorebirds of the Northern Hemisphere. Helm Photographic Guides. By Richard Chandler. 2024. Bloomsbury. 448 pages, 700 colour photos, and 150 colour maps, 107.00 CAD, Paper.

Space for Birds: Patterns and Parallels of Beauty and Flight. By Roberta L. Bondar. 2024. Figure 1 Publishing. 256 pages, 55.00 CAD, Hardcover.

The Stokes Guide to Finches of the United States and Canada. By Lillian Q. Stokes and Matthew A. Young. 2024. Little, Brown and Company. 352 pages, 345+ colour photos, and 50+ maps, 28.99 CAD, Paper, 19.99 CAD, E-book.

Storm-Petrels. By Rob Thomas. 2024. Bloomsbury USA. 336 pages, 67.00 CAD, Paper.

Swirling Starlings. By Erik Hijweege. Text by Maartje van den Heuvel and Koos Dijksterhuis. Photography by Erik Hijweege. 2024. Waanders & de Kunst. 96 pages, 60.00 CAD, Hardcover.

The Wisdom of Birds: Essential Life Lessons for Positivity and Grace. By Alison Davies. 2024. Michael O'Mara. 128 pages, 22.99 CAD, Hardcover.

ZOOLOGY

A Beary Special April in Yellowstone. By Jonathan G. Way. 2024. Self-published. 596 pages and colour photos, Open Access URL (but please consider a 10.00 USD donation) at <https://www.easterncoyotersearch.com/downloads/BearySpecialAprilinYellowstone.pdf>.

Eight-Legged Wonders: the Surprising Lives of Spiders. By James O'Hanlon. 2024. Greystone Books. 272 pages, 34.95 CAD, Hardcover.

Grizzly Confidential: an Astounding Journey into the Secret Life of North America's Most Fearsome Predator. By Kevin Grange. 2024. Harper Horizon. 272 pages, 36.99 CAD, Hardcover, 17.99 CAD, E-book.

How Primates Eat: a Synthesis of Nutritional Ecology across a Mammal Order. Edited by Joanna E. Lambert, Margaret A.H. Bryer, and Jessica M. Rothman. Foreword by T.H. Clutton-Brock. Afterword by

Alison Richard. 2024. University of Chicago Press. 760 pages, 128 halftones, and 29 tables, 324.99 CAD, Hardcover. Also available as an E-book.

In Search of the Great Canadian Shark. By Chris Harvey-Clark. 2024. Pottersfield Press. 204 pages, 22.95 CAD, Paper.

The Little Book of Whales. Little Books of Nature Series. By Robert Young and Annalisa Berta. 2024. Princeton University Press. 160 pages and 140 colour illustrations, 19.99 CAD, Hardcover. Also available as an E-book.

The Lives of Spiders: a Natural History of the World's Spiders. The Lives of the Natural World No. 11. By Ximena Nelson. 2024. Princeton University Press. 288 pages and 150 colour illustrations, 44.00 CAD, Hardcover. Also available as an E-book.

Mammals of North America, Volume 1: Systematics and Taxonomy. By Sergio Ticul Alvarez-Castañeda. 2024. Springer. 643 pages, 584.99 CAD, Hardcover.

Mammals of North America, Volume 2: Systematics and Taxonomy. By Sergio Ticul Alvarez-Castañeda. 2024. Springer. 368 pages, 364.95 CAD, Hardcover.

Marine Fishes and Fisheries of New York. By Howard M. Reisman and Emerson C. Hasbrouck Jr. Photography by Christopher Paparo. 2024. Cornell University Press. 296 pages, 28 colour photos, and 158 black and white illustrations, 40.95 CAD, Paper.

The Pipestone Wolves: the Rise and Fall of a Wolf Family. By Günther Bloch. Photography by John E. Marriott. Foreword by Mike Gibeau. 2024. Rocky Mountain Books (RMB). 224 pages and colour photos, 35.00 CAD, Paper.

Primate Socioecology: Shifting Perspectives. By Lynne A. Isbell. 2024. Johns Hopkins University Press. 280 pages, 84.95 CAD, Hardcover. Also available as an E-book.

The Secret History of Sharks: the Rise of the Ocean's Most Fearsome Predators. By John Long. 2024. Ballantine Books. 480 pages, 48.00 CAD, Hardcover, 18.99 CAD, E-book.

Slippery Beast: a True Crime Natural History, with Eels. By Ellen Ruppel Shell. 2024. Abrams Press. 304 pages, 35.00 CAD, Hardcover.

†**Stowaway: the Disreputable Exploits of the Rat.** By Joe Shute. 2024. Bloomsbury USA. 272 pages, 35.00 CAD, Hardcover, 19.99 CAD, E-book.

***Thinking Like a Wolf: Lessons from the Yellowstone Packs.** Alpha Wolves of Yellowstone Series. By Rick McIntyre. Foreword by Frans de Waal. 2024. Greystone Books. 272 pages, 34.95 CAD, Hardcover.

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A Woman Among Wolves: My Journey through Forty Years of Wolf Recovery. By Diane K. Boyd. Foreword by Douglas H. Chadwick. 2024. Greystone Books. 240 pages, 34.95 CAD, Hardcover.

OTHER

Across the Edge: Pushing the Limits across Oceans and Continents. By Peter Clutterbuck. 2024. Whitlites Publishing. 288 pages, 35.95 CAD, Paper.

Adventures in Volcanoland: What Volcanoes Tell Us about the World and Ourselves. By Tamsin Mather. 2024. Hanover Square Press. 384 pages, 41.00 CAD, Hardcover, 20.99 CAD, E-book.

Alexander von Humboldt: a Concise Biography. By Andreas W. Daum. Translated by Robert Savage. 2024. Princeton University Press. 214 pages, 32.00 CAD, Hardcover. Also available as an E-book.

Animals, Plants and Afterimages: the Art and Science of Representing Extinction. Edited by Valérie Bienvenue and Nicholas Chare. 2024. Berghahn Books. 464 pages, 40.99 CAD, Paper. Also available as an E-book.

Atlas Obscura: Wild Life—an Explorer's Guide to the World's Living Wonders. By Cara Giaimo and Joshua Foer. 2024. Workman Publishing Company. 464 pages, 50.00 CAD, Hardcover, 24.99 CAD, E-book.

Casting Homeward: an Angler and Naturalist's Journey to America's Legendary Rivers. By Steve Ramirez. Foreword by Richard Louv. Illustrations by Bob White. 2024. Globe Pequot. 280 pages, 42.95 CAD, Hardcover.

Dr. Calhoun's Mousery: the Strange Tale of a Cel-

ebrated Scientist, a Rodent Dystopia, and the Future of Humanity. By Lee Alan Dugatkin. 2024. University of Chicago Press. 240 pages and 12 half-tones, 35.95 CAD, Hardcover. Also available as an E-book.

Drawing Nature: the Creative Process of an Artist, Illustrator, and Naturalist. By Linda Miller Feltner. 2024. Princeton University Press. 272 pages and 530+ colour and black and white illustrations, 44.00 CAD, Hardcover. Also available as an E-book.

Earthly Bodies: Embracing Animal Nature. By Vanessa Chakour. 2024. Penguin Life. 336 pages, 27.99 CAD, Paper, 14.99 CAD, E-book.

Eavesdropping on Animals: What We Can Learn from Wildlife Conversations. By George Bumann. Foreword by Jon Young. 2024. Greystone Books. 272 pages, 34.95 CAD, Hardcover.

Edible East Coast Mushrooms: a Guide to Atlantic Canada's Common Edible Mushrooms. By Jeffrey C. Domm. 2024. Formac Publishing Company Limited. 96 pages, 24.95 CAD, Paper.

Edible Mushrooms of Newfoundland. By Shawn Dawson. 2024. Boulder Books. 120 pages, 34.95 CAD, Paper.

Every Living Thing: the Great and Deadly Race to Know All Life. By Jason Roberts. 2024. Doubleday Canada. 432 pages, 42.00 CAD, Hardcover, 18.99 CAD, E-book.

The Evolution of Gerald Durrell: Biography of an Author and Wildlife Conservationist. By Mary Sanders Pollock. 2024. Bloomsbury Academic. 208 pages, 131.50 CAD, Hardcover, 39.50 CAD, Paper.

Field Guide to Newfoundland and Labrador. By Michael Collins. 2024. Breakwater Books Ltd. 480 pages, 34.95 CAD, Paper.

Forest Fungi: Biodiversity, Conservation, Mycoforestry and Biotechnology. Edited by Ahmed M. Abdel Azeem, Marieka Gryzenhout, Soumya Ghosh, and Teroj A. Mohammed. 2024. Academic Press. 550 pages, 259.99 CAD, Paper.

Going to See: 30 Writers on Nature, Inspiration, and the World of Barry Lopez. Edited by James Perrin Warren and Kurt Caswell. 2024. Mountaineers Books. 272 pages, 37.95 CAD, Paper, 24.99 CAD, E-book.

Impossible Monsters: Dinosaurs, Darwin, and the Battle between Science and Religion. By Michael Taylor. 2024. W.W. Norton. 496 pages, 43.99 CAD, Hardcover, 32.99 CAD, E-book.

Lichenpedia: a Brief Compendium. Pedia Books. By Kay Hurley. Illustrations by Susan Adele Edwards. 2024. Princeton University Press. 192 pages and 47 black and white illustrations, 22.99 CAD, Hardcover, 17.99 CAD, E-book.

The Little Book of Fungi. Little Books of Nature Series. By Britt A. Bunyard. 2024. Princeton University Press. 160 pages and 140 colour illustrations, 19.99 CAD, Hardcover. Also available as an E-book.

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The Lives of Lake Ontario: an Environmental History. By Daniel Macfarlane. 2024. McGill-Queen's University Press. 288 pages and 41 photos, 34.95 CAD, Hardcover. Also available as an E-book.

The Lives of Lichens: a Natural History. The Lives of the Natural World No. 10. By Robert Lücking and Toby Spribille. 2024. Princeton University Press. 288 pages and 150+ colour illustrations, 44.00 CAD, Hardcover. Also available as an E-book.

Mushrooms of Cascadia: an Illustrated Key to the Fungi of the Pacific Northwest. Second Edition. By Michael Beug. 2024. Clarkson Potter/Ten Speed. 352 pages, 37.99 CAD, Paper.

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Nature's Writers: Mentored by the Land. By Donald S. Clark. Foreword by Bill McKibben. Preface by Camille Dungy. 2024. Rizzoli. 216 pages, 47.00 CAD, Hardcover.

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Origin Story: the Trials of Charles Darwin. By Howard Markel. 2024. W.W. Norton. 368 pages, 47.00 CAD, Hardcover, 35.99 CAD, E-book.

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The Tame and the Wild: People and Animals After 1492. By Marcy Norton. 2024. Harvard University Press. 448 pages, 49.50 CAD, Hardcover, 39.99 CAD, E-book.

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