LIFE SCIENCES, NATURAL HISTORY, & ENVIRONMENTAL STUDIES

2019–2020
Dear Friends,

We are delighted to welcome you to the 2019–2020 Life Sciences, Natural History, and Environmental Studies catalog! Please browse and discover new and classic titles and enjoy getting acquainted with books that range across many aspects and scales of life on earth as well as fundamental questions. Our authors consider significant issues in water and natural resources, sustainability, climate change, environmental justice, biological diversity, urban ecology, evolutionary biology and paleontology, historical ecology and environmental history, history of science and technology, conservation biology, and neuroscience and cognitive science.

We draw your attention to Daniel Esty’s *A Better Planet: 40 Big Ideas for a Sustainable Future*, a timely work that offers fresh thinking from environmental thought leaders across the political spectrum and Edward Barbier’s *The Water Paradox*, which considers actions we need to take to avoid a global water shortage. A new, definitive reference, *Biodiversity and Climate Change*, is a fresh look at climate change biology. *Climate Change from the Streets* illustrates essential linkages between human health and environmental protection. New contributions to urban ecology include *Seeing Trees; The Urban Improvise; Patch Atlas; and Science for the Sustainable City*. Explore the wonders of nature as described in *Nature Strange and Beautiful*; the evolution of endothermy in birds and mammals in *Fires of Life*; and gigantism in plants and animals across the history of the earth in *Nature’s Giants*. Encounters with natural history include beer, butterflies, seasonal variation, eagles, and a new field guide for Cape Cod. Also notable are *People and the Land through Time: Linking Ecology and History, Second Edition; Mescaline: A Global History of the First Psychedelic; Epidemics and Society*; and *Falling Felines and Fundamental Physics*. There is a sampler of neuroscience titles, including *Why We Believe*; a new edition of *The Master and His Emissary*; and the innovative *The True Creator of Everything: How the Human Brain Shaped the Universe as We Know It*.

All titles are available as print and electronic editions. Please visit our website (www.yalebooks.com) for a complete list. We would be pleased to hear from you about new manuscripts and proposals.

Happy Reading!

Jean E. Thomson Black (jean.black@yale.edu)
Senior Executive Editor, Science & Medicine

Joseph Calamia (joseph.calamia@yale.edu)
Senior Editor, Science & Technology
A Better Planet
Forty Big Ideas for a Sustainable Future
EDITED BY DANIEL C. ESTY; FOREWORD BY INGRID C. BURKE
“A Better Planet offers new approaches to the world’s most pressing environmental problems. It’s a timely and urgently needed volume.”—Elizabeth Kolbert, author of The Sixth Extinction: An Unnatural History
“A Better Planet offers an array of ideas for helping to deliver the ecological transition that is now an imperative.”—Emmanuel Macron, President of France
Sustainability has emerged as a global priority in the past several years, but partisan divides and disagreements over core principles have made it nearly impossible to chart a course toward a sustainable future. This timely new book offers fresh thinking and forward-looking solutions from environmental thought leaders across the political spectrum.
Hardcover 2019 384 pp. 2 b/w illus.
978-0-300-24624-7 $27.50

The Water Paradox
Overcoming the Global Crisis in Water Management
EDWARD B. BARBIER
Though water has long been treated as plentiful and freely available, a global water shortage will all too soon become a reality if action is not taken to better price and manage this resource. Drawing on evidence from around the globe, Ed Barbier proposes solutions for a looming crisis.
Hardcover 2019 296 pp. 34 figs.
978-0-300-22443-6 $30.00

Dust Bowls of Empire
Imperialism, Environmental Politics, and the Injustice of “Green” Capitalism
HANNAH HOLLEMAN
Through a fresh and interdisciplinary lens, Hannah Holleman reexamines the global socioeconomic forces of settler colonialism and imperialism that precipitated the devastation of the U.S. southern plains region in the 1930s, explaining key antecedents in the Dust Bowl era and drawing parallels to the acceleration of ecological degradation in our time.
YALE AGRARIAN STUDIES SERIES
Hardcover 2018 256 pp.
978-0-300-23020-8 $35.00

Breakpoint
Reckoning with America’s Environmental Crises
JEREMY B. C. JACKSON AND STEVE CHAPPLE
This informative, approachable book by an eminent ecologist and award-winning journalist explores the impacts of industrial agriculture and climate change on our environmental and economic well-being. Taking a hopeful look at emerging solutions, the authors offer a uniquely comprehensive view of how America can (and must) address its future.
Paper 2019 320 pp. 7 b/w illus.
978-0-300-24439-7 $17.00

Nature by Design
The Practice of Biophilic Design
STEPHEN R. KELLERT
Putting the experience of nature into the modern built environment means better habitats for humans, who inherently possess an affinity for but spend ninety percent of their time indoors. This gorgeously illustrated, foundational guide by a renowned social ecologist lays out the principles, practices, and strategies of effective biophilic design.
Hardcover 2018 224 pp. 100 color + 5 b/w illus.
978-0-300-21453-6 $35.00

The Human Planet
How We Created the Anthropocene
SIMON L. LEWIS AND MARK A. MASLIN
This book is a powerful argument that humans are a force of nature irreversibly altering the Earth’s environment, and have been since the seventeenth century. The authors take an unflinching look at our exploding environmental impacts and explain why acknowledging our impacts is essential for humanity to flourish in the twenty-first century.
Hardcover 2018 480 pp. 30 b/w illus.
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Biodiversity and Climate Change
Transforming the Biosphere
EDITED BY THOMAS E. LOVEJOY AND LEE HANNAH
FOREWORD BY EDWARD O. WILSON
In this all-new sequel to the 2005 volume Climate Change and Biodiversity, the leading experts in the field share twenty-eight chapters and ten case studies that together define climate change biology, summarize observed changes, and assess what the future holds along with offering suggested responses to ever-increasing impacts.
Paper 2019 416 pp. 9 color + 71 b/w illus.
978-0-300-20611-1  $40.00

Climate Change from the Streets
How Conflict and Collaboration Strengthen the Environmental Justice Movement
MICHAEL MÉNDEZ
Michael Méndez narrates how people of color have galvanized behind issues like air pollution, poverty alleviation, and green jobs to advance equitable climate solutions. Arguing that environmental protection and public health are inextricably linked, he contends that we must consider the cultural and human dimensions of policies to fully address the complexities of climate change.
Available January 2020
Hardcover 2020 312 pp. 20 b/w illus.
978-0-300-23215-8  $45.00

The Climate Casino
Risk, Uncertainty, and Economics for a Warming World
WILLIAM NORDHAUS
Nobel laureate William Nordhaus clarifies the important scientific, political, and economic debates and offers specific steps to slow the trajectory of global warming now.
Winner of the 2013 American Publishers Awards for Professional and Scholarly Excellence (PROSE), in the Economics category
Paper 2015 392 pp. 46 b/w illus.
978-0-300-21264-8  $20.00

Dangerous Years
Climate Change, the Long Emergency, and the Way Forward
DAVID W. ORR
In this gripping book a leading environmental thinker considers Earth’s future—and our own—in the face of ongoing climate change. Technology and innovation alone cannot solve our vast problems, he warns, but sustainability is feasible if built upon such essential practices as optimism, education, stable democratic institutions, and bottom-up change.
Winner of the Green Prize
978-0-300-23460-2  $18.00

Managing the Wild
Stories of People and Plants and Tropical Forests
CHARLES M. PETERS
This unique collection of absorbing stories drawn from ecologist Charles M. Peters’s thirty-five years of global fieldwork argues that the best solutions for sustainably managing tropical forests come from the people who live in them. Peters, a gifted storyteller, has dedicated each chapter to a forest resource, local community, or people-plant interaction. Readers learn the history of Mexican bark paper and paintings, for example, or how Dayak communities in Borneo manage high-diversity forest orchards.
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Thirst for Power
Energy, Water, and Human Survival
MICHAEL E. WEBBER
This farsighted book offers a new way of thinking about the vital but often unrecognized connections between water and energy. The author urges a holistic approach to ensure the long-range sustainability of our two most precious resources and presents a hopeful path forward.
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Toward a Model for Understanding and Action
WILLIAM R. BURCH, JR., GARY E. MACHLIS, AND JO ELLEN FORCE
From three creative and experienced researchers comes a long-awaited, seminal book about human ecosystems. It describes an interdisciplinary tool years in the making—the Human Ecosystem Model—that professionals and citizens can use to both guide research and effectively address today’s complex environmental challenges.
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A History of Street Trees in New York City and Berlin
SONJA DÜMPELMANN
New York City and Berlin began systematically planting trees to improve the urban climate during the late nineteenth century. This authoritative and beautifully illustrated work presents the theory and history of the practice within its larger cultural context, offering valuable insights and frameworks for planners and scholars at work today.
Winner of the 2019 John Brinckerhoff Jackson prize
Hardcover 2019 336 pp. 20 color + 120 b/w illus. 978-0-300-22578-5 $50.00

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Space, Scale, and Time for the Study of Cities
J. MORGAN GROVE, MARY L. CADENASSO, STEWARD T. A. PICKETT, GARY E. MACHLIS, AND WILLIAM R. BURCH, JR.; FOREWORD BY LAURA A. OGDEN
As the world becomes increasingly urbanized, planning for successful and sustainable cities poses daunting challenges. This important book draws on two decades of pioneering social and ecological studies to arrive at a new way of planning for, building, and managing the complexities of cities in the twenty-first century.
Paper 2017 10 color + 48 b/w illus. 978-0-300-22697-3 $30.00

City Unseen
New Visions of an Urban Planet
KAREN C. SETO AND MEREDITH REBA; FOREWORD BY KATHRYN D. SULLIVAN
Stunning satellite images of one hundred city landscapes provide new visions of our urban planet. We see the growth of Las Vegas and Lagos, the importance of rivers to Seoul and London, and the vulnerability of Fukushima and San Juan to floods from tsunami or hurricanes.
Hardcover 2018 268 pp. 147 color + 31 b/w illus. 978-0-300-22169-5 $35.00

The Baltimore School of Urban Ecology
Empirical Insights from the Baltimore School of Urban Ecology
EDITED BY STEWARD T. A. PICKETT, MARY L. CADENASSO, J. MORGAN GROVE, ELENA G. IRWIN, EMMA J. ROSI, AND CHRISTOPHER M. SWAN
The Baltimore Ecosystem Study’s leading scientists synthesize key empirical findings from two decades of research, education, and community engagement in an urban setting.
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Nature Strange and Beautiful
How Living Beings Evolved and Made the Earth a Home
EGBERT GILES LEIGH, JR., AND CHRISTIAN ZIEGLER
In this wide-ranging volume, Egbert Leigh explores the amazing results of billions of years of evolution at work. He demonstrates that natural selection on “selfish genes” gives rise to complex modes of cooperation and interdependence.
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Fires of Life
Endothermy in Birds and Mammals
BARRY GORDON LOVEGROVE; WITH A FOREWORD BY ROGER S. SEYMOUR
This pioneering work investigates why endothermy evolved in birds and mammals, despite its enormous energetic costs. Vividly narrated and illustrated, this book integrates paleontology, zoology, and physiology to stage a groundbreaking argument.
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JOHN H. OSTROM; FOREWORD BY JACQUES A. GAUTHIER
John H. Ostrom’s expeditions to the Bighorn Basin of Wyoming and Montana in the 1960s resulted in discoveries and research that would change long-held concepts in paleontology. This fiftieth-anniversary edition of his now well-known description of the type specimen of Deinonychus antirrhopus revisits the work that redefined theropod dinosaurs and led in the late twentieth century to a renaissance in the study of dinosaurs and the evolution of flight.
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The Biology and Evolution of the World’s Largest Lifeforms
GRAEME D. RUXTON; FOREWORD BY NORMAN OWEN-SMITH
Why are creatures the size that they are? In this fascinating new book, Graeme Ruxton explains how and why nature’s giants came to be so large. With examples ranging from huge butterflies to giant squid, Ruxton explores the physics, biology, and evolutionary drivers behind organism size, showing what it’s like to live large.
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The Evolution of Humans and Things
IAN HODDER
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An introduction to the fascinating world of animal performance, this book explores the stunning performance abilities driven by natural and sexual selection in the animal kingdom. If you’d like to know how fish climb waterfalls, cheetahs run so fast, or shrimp can generate sonic booms underwater, this book is for you.
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BRUCE M. BEEHLER; WITH ILLUSTRATIONS BY JOHN C. ANDERTON
In this “personal encyclopedia of nature’s seasons,” distinguished ornithologist Bruce Beehler reflects on his three decades of observing nature and wildlife in Washington, DC. Combining diary entries, field trips, photographs, and half-tone wash drawings, this book shows how many outdoor adventures are waiting in one’s own backyard.
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Part 10
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This final volume in the Fishes of the Western North Atlantic series is a comprehensive illustrated overview of this region’s thirty-eight species of the order Beloniformes—needlefishes, sauries, halfbeaks, and flyingfishes—making for a valuable reference work in taxonomy and ichthyology for all students of the sea.
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PUBLISHED WITH THE COOPERATION OF THE YALE PEABODY MUSEUM OF NATURAL HISTORY
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DANIEL LEWIS
A lively natural history and love letter to Hawai’i’s birds, offering exciting new ways to think about concepts of biocultural nativeness and belonging—with relevance to humans as well. Engaging and extensively researched, it provides an important perspective on Hawai’i’s birds past and present, and an appreciative look at island conservation.
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Exploring almost every imaginable area of science—from microbiology to ecology, climatology to biochemistry and beyond—the authors offer new perspectives on how to appreciate wine to its fullest.
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Wild Butterflies in North America
DAVID LEE MYERS; FOREWORD BY ROBERT MICHAEL PYLE
Lavishly illustrated and scientifically rigorous, this dazzling volume provides a comprehensive visual guide to the butterflies of North America. David Lee Myers’s stunning photography captures these amazing insects in their natural habitats, offering a firsthand look at how butterflies appear in the wild and their important roles as indicator species.
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PATRICK J. LYNCH

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NOBLE S. PROCTOR AND PATRICK J. LYNCH

This superb book, with its unique focus on the entire marine coastal environment, is the most comprehensive and up-to-date field guide available on the southeastern Atlantic Coast and the Gulf Coast. Not just for beachgoers, the book is essential for birders, whale watchers, fishers, boaters, scuba divers and snorkelers, and shoreline visitors.

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Hardcover 2019 224 pp. 34 b/w illus. 978-0-300-24128-0 $26.00

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ANTHONY AVENI
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