

# Hawaiian Natural History, Ecology, and Evolution

Alan C. Ziegler



# Hawaiian Natural History Ecology And Evolution

**AW Chickering**



## **Hawaiian Natural History Ecology And Evolution:**

Hawaiian Natural History, Ecology, and Evolution Alan C. Ziegler, 2002-09-30 Not since Willam A Bryan s 1915 landmark compendium *Hawaiian Natural History* has there been a single volume work that offers such extensive coverage of this complex but fascinating subject Illustrated with more than two dozen color plates and a hundred photographs and line drawings *Hawaiian Natural History Ecology and Evolution* updates both the earlier publication and subsequent works by compiling and synthesizing in a uniform and accessible fashion the widely scattered information now available Readers can trace the natural history of the Hawaiian Archipelago through the book s twenty eight chapters or focus on specific topics such as island formation by plate tectonics plant and animal evolution flightless birds and their fossil sites Polynesian migrational history and ecology the effects of humans and exotic animals on the environment current conservation efforts and the contributions of the many naturalists who visited the islands over the centuries and the stories behind their discoveries An extensive annotated bibliography and a list of audio visual materials will help readers locate additional sources of information

*Restoring Paradise* Robert J. Cabin, 2013-05-31 Three quarters of the U S s bird and plant extinctions have occurred in Hawai i and one third of the country s threatened and endangered birds and plants reside within the state Yet despite these alarming statistics all is not lost There are still 12 000 extant species unique to the archipelago and new species are discovered every year In *Restoring Paradise Rethinking and Rebuilding Nature in Hawai i* Robert Cabin shows why current attempts to preserve Hawai i s native fauna and flora require embracing the emerging paradigm of ecological restoration the science and art of assisting the recovery of degraded species and ecosystems and creating more meaningful and sustainable relationships between people and nature Cabin s extensive experience as a research ecologist and applied practitioner enables him to provide a rare behind the scenes look at successful and inspiring restoration programs In Part 1 he recounts Hakalau Forest National Wildlife Refuge s efforts to restore thousands of acres of degraded pasture on the island of Hawai i back to the native rain forests that once dominated the area and sheltered native birds now on the brink of extinction Along the way he presents an overview of Hawaiian natural and cultural history biogeography and evolutionary biology Following chapters look at restoration work underway by the U S Park Service to reestablish native species within the vast Hawai i Volcanoes National Park by a charismatic scientist and dedicated volunteers to restore the native forests of Auwahi on the southern slopes of Haleakal and by the Limahuli branch of Kauai s National Tropical Botanical Garden to revive a thousand year old taro plantation To investigate the compelling and often conflicting philosophies and strategies of those involved in restoration Cabin opens Part 3 with interview excerpts from a cross section of Hawai i s environmental community He concludes with a provocative and insightful discussion of the contentious evolving relationship between humans and nature and the power and limitations of science within and beyond Hawai i

**Belonging on an Island** Daniel Lewis, 2018-01-01 A lively rich natural history of Hawaiian birds that challenges existing ideas about

what constitutes biocultural nativeness and belonging This natural history takes readers on a thousand year journey as it explores the Hawaiian Islands beautiful birds and a variety of topics including extinction evolution survival conservationists and their work and most significantly the concept of belonging Author Daniel Lewis an award winning historian and globe traveling amateur birder builds this lively text around the stories of four species the Stumbling Moa Nalo the Kaua I O o the Palila and the Japanese White Eye Lewis offers innovative ways to think about what it means to be native and proposes new definitions that apply to people as well as to birds Being native he argues is a relative state influenced by factors including the passage of time charisma scarcity utility to others short term evolutionary processes and changing relationships with other organisms This book also describes how bird conservation started in Hawai i and the naturalists and environmentalists who did extraordinary work

**Evolution in Hawaii** National Academy of Sciences, Steve Olson, 2004-02-10 As both individuals and societies we are making decisions today that will have profound consequences for future generations From preserving Earth s plants and animals to altering our use of fossil fuels none of these decisions can be made wisely without a thorough understanding of life s history on our planet through biological evolution Companion to the best selling title Teaching About Evolution and the Nature of Science Evolution in Hawaii examines evolution and the nature of science by looking at a specific part of the world Tracing the evolutionary pathways in Hawaii we are able to draw powerful conclusions about evolution s occurrence mechanisms and courses This practical book has been specifically designed to give teachers and their students an opportunity to gain a deeper understanding of evolution using exercises with real genetic data to explore and investigate speciation and the probable order in which speciation occurred based on the ages of the Hawaiian Islands By focusing on one set of islands this book illuminates the general principles of evolutionary biology and demonstrate how ongoing research will continue to expand our knowledge of the natural world

Intelligent Tinkering Robert Jonathan Cabin, 2011-08-03 Robert J Cabin uses the restoration of tropical dry forestland in Hawaii as an in depth case study to investigate the scientific practical and philosophical issues associated with performing ecological restoration in the messy real world Interweaving entertaining narratives of his own on the ground experiences as a practicing restorationist with reflections about his scientific training and background Cabin explores the relationship between science and practice in ecological restoration He observes that because restoration can be complex and value driven its implementation often turns out to be as much interdisciplinary art as hard science Despite the often distinct cultures and methodologies of scientists and practitioners Cabin shows how each has a vital role in effective restoration and offers suggestions for improving working relationships One approach he advocates is what he calls intelligent tinkering after the work of Aldo Leopold In this model practitioners employ the same kind of careful but informal trial and error strategy followed by such groups as indigenous peoples and hobbyist mechanics Cabin illustrates the power of intelligent tinkering using examples from his own work and other restoration projects The gap between science and practice is not unique to ecological restoration it is a widespread

problem across all fields of applied science Written in a clear and engaging style Intelligent Tinkering offers an insightful look at the underlying causes of the problem along with invaluable suggestions for addressing it **Moon Honolulu & Oahu** Kevin Whitton,2016-10-18 Make Your Escape The ideal balance between lively metropolis and serene shores O ahu is the heartbeat of the Hawaiian Islands See the soul of Hawaii with Moon Honolulu O ahu the travel guide preferred by locals What you ll find in Moon Honolulu O ahu Expert local author Kevin Whitton provides an adventurers perspective on his beloved island home Full color guides with vibrant helpful photos all in an easy to navigate format Detailed directions and over 20 maps for exploring on your own O ahu travel itineraries for every trip and budget with options for rainy days including O ahu in Seven Days Best Beaches Family Fun Best Snorkeling and Diving Hit the Trail Best Surfing Historical Sites Hotspots for Honeymooners In depth coverage for Waikiki Honolulu the North Shore Hanauma Bay and Southeast Kailua and Windward and Ko Olina and Leeward Honest advice on finding the best accommodations accessible transportation and experiencing the real O ahu Activities and ideas for every traveler spot sea turtles as you snorkel the coral reefs or go whale watching Hike bike or do yoga on the beach before unwinding at a spa golfing or hitting a tennis court Attend a traditional luau and sample Polynesian cuisine or visit historic landmarks like Pearl Harbor Accurate information researched by a local including background on the landscape plants and animals history and culture Handy tools such as detailed lodging information and suggestions on LGBT travel and eco tourism all in a book light enough for your beach bag With Moon Honolulu O ahu s practical tips myriad activities and local insight on the best things to do and see you can plan your trip your way Interested in island hopping Check out Moon Big Island of Hawai i Moon Kaua i and Moon Maui Visiting all the islands Check out Moon Hawaiian Islands [Moon Big Island of Hawaii](#) Bree Kessler,2016-09-27 Expert traveler Bree Kessler covers the best sights and adventures that the Big Island has to offer from soaking up the sun on Kona s iconic white sand beaches to sampling local delicacies at Hilo s popular farmer s market Kessler also offers one of a kind trip ideas including Eat Your Way Around the Island Big Island on a Budget and Just Leave Me at the Beach an itinerary for travelers who want to spend their entire vacation relaxing on the sand Brimming with details on checking out the sea turtles at Punaluu Beach County Park tidepooling in Pahoa and venturing up Saddle Road for the spectacular views at the Mauna Kea observatory Moon Big Island of Hawai i gives travelers the tools they need to create a more personal and memorable experience This full color travel guide includes colorful photos and helpful maps throughout **Biogeography in a Changing World** Malte C. Ebach,Raymond S. Tangney,2006-11-01 Hampered by a confusing plethora of approaches and methods biogeography is often treated as an adjunct to other areas of study The first book to fully define this rapidly emerging subdiscipline Biogeography in a Changing World elucidates the principles of biogeography and paves the way for its evolution into a stand alone field Drawin **Island Environments in a Changing World** Lawrence R. Walker,Peter Bellingham,2011-03-24 Islands represent unique opportunities to examine human interaction with the natural environment

They capture the human imagination as remote vulnerable and exotic yet there is comparatively little understanding of their basic geology geography or the impact of island colonization by plants animals and humans This detailed study of island environments focuses on nine island groups including Hawaii New Zealand and the British Isles exploring their differing geology geography climate and soils as well as the varying effects of human actions It illustrates the natural and anthropogenic disturbances common to island groups all of which face an uncertain future clouded by extinctions of endemic flora and fauna growing populations of invasive species and burgeoning resident and tourist populations Examining the natural and human history of each island group from early settlement onwards the book provides a critique of the concept of sustainable growth and offers realistic guidelines for future island management **The Biology of Island Floras** David Bramwell, Juli Caujapé-Castells, 2011-07-21 Oceanic islands offer biologists unparalleled opportunities to study evolutionary processes and ecological phenomena However human activity threatens to alter or destroy many of these fragile ecosystems with recent estimates suggesting that nearly half of the world's insular endemics are threatened with extinction Bringing together researchers from around the world this book illustrates how modern research methods and new concepts have challenged accepted theories and changed our understanding of island flora Particular attention is given to the impact of molecular studies and the insights that they provide into topics such as colonisation radiation diversification and hybridisation Examples are drawn from around the world including the Hawaiian archipelago Galapagos Islands Madagascar and the Macronesian region Conservation issues are also highlighted with coverage of alien species and the role of ex situ conservation providing valuable information that will aid the formulation of management strategies and genetic rescue programmes **Australia, New Zealand, and the Pacific** Donald S. Garden, 2005-08-19 A fascinating study of the environmental history of Australia New Zealand and the islands of the Pacific from the time of the dinosaurs to the present day Of interest to students and academics alike this book provides a much needed synthesis of the recent literature on the environmental history of Australia and Oceania Part of ABC CLIO's Nature and Human Societies series this book maps out the key trends in the region's environmental history charting the creation of the Australian continent from the ancient land mass of Gondwanaland to the arrival of humans Especially fascinating are the chapters highlighting how successive waves of human migration created environmental havoc throughout the region leading to the collapse of the Easter Island civilization and the spread of nonindigenous flora and fauna From the controversies over the reasons why creatures such as the marsupial lion and the giant kangaroo became extinct to such contemporary problems as deforestation and global warming this book contains sobering lessons for us all **The Monkey's Voyage** Alan de Queiroz, 2014-01-07 Throughout the world closely related species are found on landmasses separated by wide stretches of ocean What explains these far flung distributions Why are such species found where they are across the Earth Since the discovery of plate tectonics scientists have conjectured that plants and animals were scattered over the globe by riding pieces of ancient supercontinents as they

broke up In the past decade however that theory has foundered as the genomic revolution has made reams of new data available And the data has revealed an extraordinary stranger than fiction story that has sparked a scientific upheaval In The Monkey s Voyage biologist Alan de Queiroz describes the radical new view of how fragmented distributions came into being frogs and mammals rode on rafts and icebergs tiny spiders drifted on storm winds and plant seeds were carried in the plumage of sea going birds to create the map of life we see today In other words these organisms were not simply constrained by continental fate they were the makers of their own geographic destiny And as de Queiroz shows the effects of oceanic dispersal have been crucial in generating the diversity of life on Earth from monkeys and guinea pigs in South America to beech trees and kiwi birds in New Zealand By toppling the idea that the slow process of continental drift is the main force behind the odd distributions of organisms this theory highlights the dynamic and unpredictable nature of the history of life In the tradition of John McPhee s Basin and Range The Monkey s Voyage is a beautifully told narrative that strikingly reveals the importance of contingency in history and the nature of scientific discovery Hawaiian Plant Life Robert J. Gustafson, Derral R. Herbst, Philip W. Rundel, 2014-10-31 Hawaiian Plant Life has been written with both the layperson and professional interested in Hawai i s natural history and flora in mind In addition to significant text describing landforms and vegetation the evolution of Hawaiian flora and the conservation of native species the book includes almost 875 color photographs illustrating nearly two thirds of native Hawaiian plant species as well as a concise description of each genus and species shown The work can be used either as a stand alone reference or as a companion to the two volume Manual of the Flowering Plants of Hawai i Learning more about threatened and endangered plants is essential to conserving them and there is no more endangered flora in the world today than that of the Hawaiian Islands Striking species complexes such as the silverswords and the remarkable lobeliads represent unique stories of adaptive radiation that make the Hawai i a living laboratory for evolution Public appreciation for Hawaiian biodiversity requires outreach and education that will determine the future conservation of this rich heritage and Hawaiian Plant Life has been designed to help fill that need

Natural History of Nihoa and Necker Islands N. L. Evenhuis, 2004 The isolated islands of Nihoa and Necker Mokumanamana are the two most southerly of the Northwestern Hawaiian Islands and have remained virtually untouched since their discovery by westerners in the late 1700s Although the first Polynesian settlers to these islands have long since departed Nihoa and Necker still harbor an impressive variety of wildlife Today almost 1 200 organisms excluding viruses and bacteria can be found on and around these islands with an overwhelming majority of the species being either endemic found only in Hawai i or indigenous naturally occurring in Hawai i but also found elsewhere Back cover **Pacific Science** ,2007

*Hawai'i's Native Plants* Bruce A. Bohm, 2004 Book to help visitors to the Hawaiian Islands learn about native flora and the impact of invasive species *Enjoying Birds and Other Wildlife in Hawai'i* Harold Douglas Pratt, 2002 **Insect**

**Conservation and Islands** Tim R. New, 2008-06-19 A series of original papers and reviews dealing with the peculiarities of

island insects and their conservation in many parts of the world Contributions to this special issue of Journal of Insect Conservation range from biogeographical analyses and ecological features of island insects and their evolution to the variety of concerns for their wellbeing and practical conservation through a variety of sometimes novel approaches They provide a valuable and up to date resource for entomologists and conservation practitioners Natural History ,1921 **The World Book Encyclopedia: H** ,2007 A 22 volume highly illustrated A Z general encyclopedia for all ages featuring sections on How to use WORLD BOOK Other Research Aids Pronunciation Key A Student Guide to Better Writing Speaking and Research Skills and comprehensive index Provided by publisher



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