

Charles Birkeland *Editor*

Coral Reefs in the Anthropocene

 Springer

Book Coral Reefs Anthropocene Charles Birkeland

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Coral Reefs in the Anthropocene Charles Birkeland, 2016-08-23 This volume investigates the effects of human activities on coral reefs which provide important life supporting systems to surrounding natural and human communities. It examines the self-reinforcing ecological, economic, and technological mechanisms that degrade coral reef ecosystems around the world. Topics include reefs and limestones in Earth history, the interactions between corals and their symbiotic algae, diseases of coral reef organisms, the complex triangle between reef fishes, seaweeds, and corals, coral disturbance and recovery in a changing world. In addition, the authors take key recent advances in DNA studies into account, which provides new insights into the population biology, patterns of species distributions, recent evolution, and vulnerabilities to environmental stresses. These DNA analyses also provide new understandings of the limitations of coral responses and scales of management necessary to sustain coral reefs in their present states. Coral reefs have been essential sources of food, income, and resources to humans for millennia. This book details the delicate balance that exists within these ecosystems at all scales, from geologic time to cellular interactions, and explores how recent global and local changes influence this relationship. It will serve as an indispensable resource for all those interested in learning how human activities have affected this vital ecosystem around the world.

Coral Reefs in the Anthropocene Charles Birkeland, 2015 This volume investigates the effects of human activities on coral reefs which provide important life supporting systems to surrounding natural and human communities. It examines the self-reinforcing ecological, economic, and technological mechanisms that degrade coral reef ecosystems around the world. Topics include reefs and limestones in Earth history, the interactions between corals and their symbiotic algae, diseases of coral reef organisms, the complex triangle between reef fishes, seaweeds, and corals, coral disturbance and recovery in a changing world. In addition, the authors take key recent advances in DNA studies into account, which provides new insights into the population biology, patterns of species distributions, recent evolution, and vulnerabilities to environmental stresses. These DNA analyses also provide new understandings of the limitations of coral responses and scales of management necessary to sustain coral reefs in their present states. Coral reefs have been essential sources of food, income, and resources to humans for millennia. This book details the delicate balance that exists within these ecosystems at all scales, from geologic time to cellular interactions, and explores how recent global and local changes influence this relationship. It will serve as an indispensable resource for all those interested in learning how human activities have affected this vital ecosystem around the world.

Coral Reefs in the Anthropocene Charles Birkeland, 2015-11-03 This volume investigates the effects of human activities on coral reefs which provide important life supporting systems to surrounding natural and human communities. It examines the self-reinforcing ecological, economic, and technological mechanisms that degrade coral reef ecosystems around the world. Topics include reefs and limestones in Earth history, the interactions between corals and their symbiotic algae, diseases of coral reef organisms, the complex triangle between reef fishes, seaweeds,

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Coral Reef Resilience in the Anthropocene

Peter W. Glynn, 2025-07-21 This book chronicles six decades of exploration and ecological studies of Western American coral reefs a vibrant and diverse ecosystem in a marginal tropical Pacific region that has long been overlooked It begins with the discovery of pristine coral reefs in Panama in the 1960s follows the impact of stressful El Niño warming events that caused widespread coral bleaching and mortality in the 1980s 1990s documents coral recovery in the late 1990s and early 2000s and addresses the recent resurgence 2023-24 of extreme El Niño events leading to renewed coral mortality and setbacks in reef recovery The book delves into the challenges posed by the physical environment including recurring ENSO activity and increasing ocean acidification and examines key ecological research topics such as coral reproduction predation bioerosion symbioses and biodiversity It also highlights recent molecular genetic advancement in understanding coral endosymbionts species identification and phylogenetic relationships Along the way personal anecdotes from the eastern Pacific coral research team ranging from exhilarating to amusing frightening and occasionally embarrassing are shared throughout this scientific journey This narrative offers a glimpse into the community composition of species and their interactions before severe bleaching and widespread coral mortality information that is necessary to help guide restoration work Sketches of coral reef animal associates by Peter W Glynn and the late Charles Messing add an artistic dimension highlighting the ecological roles of various species within the reef ecosystem Many students have made significant contributions to the understanding and conservation of eastern Pacific coral reefs with several going on to pursue careers in academia research and restoration emerging as the next generation of reef scientists The book concludes with a cautiously optimistic hope that humanity will shift away from reliance on fossil fuels and that Generation Z and their future students will discover ways to restore coral reefs for future generations

Southern Anthropocenes

Casper Bruun Jensen, 2025-09-24 This wide ranging volume addresses the changing landscape of problems challenges and possibilities that emerge once the macroscopic notion of the Anthropocene is replaced with Southern Anthropocenes It envisions Southern Anthropocenes as an opening towards forms and ends of life that exceed while remaining in partial relation with modern socio economic horizons and the determinations of the geo eco and climate sciences What happens if Southern Anthropocenes are allowed to multiply and

room is made for practices of worlding and life that are impossible from within the singular Anthropocene Key issues include emergent interfaces between beings ways of living and worlds problems of co existence in and across pluriversal contact zones explorations of liveability under rapidly changing circumstances speculations about other futures and how to invent them investigations of more than human itineraries and entangled territories and explorations of how to collectively invent the portals between ways of thinking and acting on a planet in a critical state It will be essential reading for advanced undergraduate and postgraduate students in Sociology Anthropology Critical Education Environmental Humanities Science and Technology Studies Geography and Urban Studies **Coral Reefs** Charles Sheppard, 2021-04-22 Very Short

Introductions Brilliant Sharp Inspiring Coral reefs are among the most beautiful and most diverse of ecosystems Early seafarers were wary of them naturalists were confused by them yet many coastal people benefited greatly from these mysterious rocky structures that grew up to the surface of the sea They have been rich in their supply of food and they provided a breakwater from storms and high waves to countless coastal communities that developed from their protection Their scale is enormous and their value high Found in countless locations around the world from the Indo Pacific coral reef province to the Caribbean and Australia they support both marine and human life But today coral reefs are in trouble with many dying or suffering from over exploitation pollution and the warming and acidification of the oceans Understanding reefs their conservation and management is vital and so is conveying this to authority if we are to preserve these remarkable ecosystems In this Very Short Introduction Charles Sheppard describes the complex structure and interdependencies of a reef how reefs have evolved the diversity of marine life that they support and their importance to the human population who live beside them This new edition describes the latest research on the complex symbioses of coral animals with microorganisms It also highlights the scale of the challenge facing our reefs today following recent ocean heatwaves part of wider climate disruption that killed half the world s reefs and considers what can be done to preserve these essential and vibrant ecosystems ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

Street Art and Activism in the Greater Caribbean Jana Evans Braziel, 2022-09-06 Foregrounding street art in the capital cities of Cuba Haiti and Puerto Rico this book argues that Antillean street artists diagnose the impossible state of the arrested present colonized occupied or under dictatorship while simultaneously imagining liberated futures and fully sovereign states Jana Evans Braziel launches a comparative study of art politics history urban street cultures engaged citizenships and social transformations in three Antillean capital cities Havana Cuba Port au Prince Haiti and San Juan Puerto Rico of the Greater Caribbean The book includes a photo documentary archive of street art murals and installations by key muralists in these cities Yulier Rodriguez P rez Jerry Rosembert Mo se and Colectivo Moriviv Chachi

Gonzalez Colón, Rayssa Rodríguez García and Salomé Cortés Braziel offers art historical and geopolitical analyses of the urban street art in their cities of production underscoring street art as political economic and environmental engagements and not as exclusively aesthetic ones with urban space and street life. The book will be of interest to scholars working in art history, Caribbean studies, Latin American studies and urban studies.

Life and Death of Coral Reefs

Charles Birkeland, 2012-10-12. Living coral is a thin veneer measured in millimeters. Yet this thin film of living tissue has shaped the face of the Earth by creating limestone structures sometimes over 1 300 m thick from the surface down to its base on volcanic rock. Enewetak Atoll or over 2 000 km long Great Barrier Reef. About half the world's coastlines are in the tropics and about a third of the tropical coastlines are made of coral reef. Archipelagoes of hundreds of atolls such as the Marshalls, the Maldives, the Tuamotus and most of the Carolines and Kiribati have been formed by coral. In addition to enlarging high islands such as the entire northern end of Guam and extending and protecting coastlines, ancient biogenic reefs have formed even larger areas on the present continents. Shallow living coral reefs are estimated to presently cover over 600 000 km². Smith 1978. Coral reefs are dynamic systems producing limestone at the rate of 400 2 000 tons per hectare per year. Chave et al 1972. The Great Barrier Reef dominates 2 230 000 km² and has grown to this size in a geologically brief period of a few million years. Coral reefs influence the chemical balance of the world's oceans. Roughly half the calcium that enters the sea each year around the world from the north to south poles is taken up and temporarily bound into coral reefs. Smith 1978.

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What is Natural?

Jan Sapp, 2003. During the late 1960s and 1970s massive herds of poisonous crown of thorns starfish suddenly began to infest coral reef communities around the world leaving in their wake devastation comparable to a burnt out rainforest. In *What is Natural* Jan Sapp both examines this ecological catastrophe and captures the intense debate among scientists about what caused the crisis and how it should be

handled The crown of thorns story takes readers on tropical expeditions around the world and into both marine laboratories and government committees where scientists rigorously search for answers to the many profound questions surrounding this event Were these fierce starfish outbreaks the kind of manmade disaster heralded by such environmentalists as Rachel Carson in Silent Spring Indeed discussions of the cause of the starfish plagues have involved virtually every environmental issue of our time over fishing pesticide use atomic testing rain forest depletion and over population but many marine biologists maintain that the epidemic is a natural feature of coral reef life and ecological balance of nature that should not be tampered with until we know the scientific truth of the crisis But should we search for the scientific truth before taking action And what if an environmental emergency cannot wait for a rigorous scientific search for the truth The starfish plagues are arguably one of most mysterious ecological phenomena of this century Through the window of this singular event What is Natural lucidly illustrates the complexity of environmental issues while probing the most fundamental questions about the relationship between man and nature

Coral Reefs Charles Sheppard, 2021 Coral reefs are among the most biodiverse of ecosystems Here Charles Sheppard tells the fascinating story of how and where coral reefs are formed and the variety of marine life they support He highlights the severe threats they face due to climate change pollution and over exploitation and the ongoing conservation efforts to save them

Coral Reefs of the Western Pacific Ocean in a Changing Anthropocene Jing Zhang, Thamasak Yeemin, R. John Morrison, Gi Hoon Hong, 2022-09-08 The monograph is based on the research and training activities in the Western Pacific Ocean Region within the umbrella of UNESCO IOC Sub Commission for the Western Pacific Region The results of these activities are compared to cases from other tropical and subtropical regions on this planet to make the knowledge applicable to global aspects of sustainability of coral reef ecosystems In this monograph we examine the coral reefs from viewpoint of multidisciplinary approaches including environmental impacts coral biology and system ecology biogeochemical cycles and processes that drive the material and energy flow through the food web as well as the proxies in geochemistry that have been used to track the responses of coral reefs to the changing climate and human perturbations Although this study is focused on the Western Pacific Ocean the Western Pacific Ocean is so large and diverse that most reef environment types on this planet are located within it Therefore knowledge gained in this study is relevant to the application of coastal management in practice as well as in the teaching classes on the interactions between coral reef ecosystems with changing environments

Coral Whisperers Irus Braverman, 2018-10-30 In recent years a catastrophic global bleaching event devastated many of the world's precious coral reefs Working on the front lines of ruin today's coral scientists are struggling to save these important coral reef ecosystems from the imminent threats of rapidly warming acidifying and polluted oceans Coral Whisperers captures a critical moment in the history of coral reef science Gleaning insights from over one hundred interviews with leading scientists and conservation managers Irus Braverman documents a community caught in an existential crisis and alternating between despair and hope In this important new book

corals emerge not only as signs and measures of environmental catastrophe but also as catalysts for action **Coral Reefs**
Charles Darwin, 2024-02-15 *Coral Reefs* by Charles Darwin is a seminal work that unveils the mysteries of these vibrant underwater ecosystems In this pioneering exploration Darwin presents meticulous observations and profound insights into the formation and evolution of coral reefs He investigates the intricate relationships between coral organisms marine life and the geological processes that shape these remarkable structures Darwin's groundbreaking theories on the growth of coral reefs and the concept of subsidence have left an indelible mark on marine biology and geology This book serves as a cornerstone in understanding the delicate balance and intricate beauty of coral ecosystems With a compelling blend of scientific rigor and engaging prose *Coral Reefs* remains a timeless resource for marine biologists environmentalists and anyone captivated by the wonders of the underwater world

Coral Reefs Robert Steneck, 2026-01-01 *Coral Reefs Their Complexity Fragility and Future* offers an introduction to tropical coral reef ecosystems It explores the combined geological physical chemical and biological factors that make coral reefs among the most diverse and productive systems in the world To unpack these complex systems this book outlines the major players that create coral reefs reconsiders how environmental and human forces shape reefs in the Anthropocene and identifies best practices for sustainable tourism and management of reef systems Written by a leading expert of tropical reef systems this book covers the biology taxonomy and ecological interactions of dominant reef organisms Chapters systematically discuss the diversity of corals and the reef communities that they support the key geological and biological factors driving their development and critical processes of primary productivity competition predation and herbivory The book ends with a look to the future of coral reefs considering global change in the Anthropocene *Coral Reefs Their Complexity Fragility and Future* combines fundamental concepts with novel research advances to explore the forces that shape coral reefs and predict the future of these ecosystems in the coming century In discussing both the successes and failures of modern conservation efforts this book offers a roadmap to guide stakeholders and industry leaders in developing policies surrounding the sustainable visitation and conservation of coral reef ecosystems It is an indispensable resource for the next generation of marine scientists conservationists and policymakers concerned with the future of these critical ecosystems **The Coral Reef Era: From Discovery to Decline** James

Bowen, 2015-01-10 On 4 June 1629 the Batavia pride of the Dutch East India Company Fleet was wrecked on her maiden voyage in a seemingly empty expanse of the Indian Ocean The question how did this happen led to 300 years of investigation by those curious to solve the enigma what are corals and how are coral reefs formed Relying heavily on primary source material Part 1 traces the sequential evolution of scientific thought and practice as the author explores the way this evolution is reflected in the search for understanding corals At each stage answers lead to fresh questions that challenge investigators to solve the riddle and new branches of science emerge Then with the first enigma finally understood a new enigma arose Why are Reefs dying Part 2 traces the range of problems that have emerged in the past 50 years as marine ecological reef

and climate scientists attempt to put the pieces of the jigsaw together Is there a new canary in the coal mine warning of the fate of the world as we know it if man s impact on his environment continues unchecked **Coral Reefs** Peter F.

Sale,2021-05-25 An eye opening introduction to the complexity wonder and vital roles of coral reefs When mass coral bleaching and die offs were first identified in the 1980s and eventually linked to warming events the scientific community was sure that such a dramatic and unambiguous signal would serve as a warning sign about the devastating effects of global warming Instead most people ignored that warning Subsequent decades have witnessed yet more degradation Reefs around the world have lost more than 50 percent of their living coral since the 1970s In this book distinguished marine ecologist Peter F Sale imparts his passion for the unexpected beauty complexity and necessity of coral reefs By placing reefs in the wider context of global climate change Sale demonstrates how their decline is more than simply a one off environmental tragedy but rather an existential warning to humanity He offers a reframing of the enormous challenge humanity faces as a noble venture to steer the planet into safe waters that might even retain some coral reefs **Corals** Giovanni

Chimienti,2023 Corals have thrived on the bottom of the ocean for millions of years These fascinating animals are currently forced to cope with the rapid changes caused by humans to avoid extinction How are corals changing their way of processing energy from different sources What do we know about the corals living in the unseen depths of certain seamounts What is the impact of oil spills and what can we do How are coral reefs all over the world to be restored What is the socioeconomic importance of these habitats and what do we gain or lose with their survival or their demise By involving scientists and conservationists from different areas of the world this book answers these and other questions about corals the habitat they form and the influence that we have on them **Geological Approaches to Coral Reef Ecology** Richard B.

Aronson,2007-03-09 This book provides a unique perspective on the destruction both natural and human caused of coral reef ecosystems Reconstructing the ecological history of coral reefs the authors evaluate whether recent dramatic changes are novel events or part of a long term trend or cycle The text combines principles of geophysics paleontology and marine sciences with real time observation examining the interacting causes of change hurricane damage predators disease rising sea level nutrient loading global warming and ocean acidification Predictions about the future of coral reefs inspire strategies for restoration and management of ecosystems Useful for students and professionals in ecology and marine biology including environmental managers **On the Structure and Distribution of Coral Reefs** Charles Darwin,192?

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