

What Are The Causes Of Coral Bleaching

Yicheng Fang

Coral Bleaching Madeleine J. H. van Oppen, Janice M. Lough, 2008-10-09 One of the most dire consequences of global climate change for coral reefs is the increased frequency and severity of mass coral bleaching events. This volume provides information on the causes and consequences of coral bleaching for coral reef ecosystems, from the level of individual colonies to ecosystems and at different spatial scales, as well as a detailed analysis of how it can be detected and quantified. Future scenarios based on modelling efforts and the potential mechanisms of acclimatisation and adaptation are reviewed. The much more severe coral bleaching events experienced on Caribbean coral reefs (compared with those of the Indo-Pacific) are discussed, as are the differences in bleaching susceptibility and recovery that have been observed on smaller geographic scales.

Coral Bleaching Madeleine J. H. van Oppen, Janice M. Lough, 2018-07-05 One of the most serious consequences of global climate change for coral reefs is the increased frequency and severity of mass coral bleaching events and, since the first edition of this volume was published in 2009, there have been additional mass coral bleaching events. This book provides comprehensive information on the causes and consequences of coral bleaching for coral reef ecosystems, from the genes and microbes involved in the bleaching response, to individual coral colonies and whole reef systems. It presents detailed analyses of how coral bleaching can be detected and quantified and reviews future scenarios based on modeling efforts and the potential mechanisms of acclimatisation and adaptation. It also briefly discusses emerging research areas that focus on the development of innovative interventions aiming to increase coral climate resilience and restore reefs.

Coral Bleaching Heidi Schuttenberg, 2001-02-01

Diseases of Coral Cheryl M. Woodley, Craig A. Downs, Andrew W. Bruckner, James W. Porter, Sylvia B. Galloway, 2016-01-26 Coral disease is quickly becoming a crisis to the health and management of the world's coral reefs. There is a great interest from many in preserving coral reefs. Unfortunately, the field of epizootiology is disorganized and lacks a standard vocabulary, methods, and diagnostic techniques, and tropical marine scientists are poorly trained in wildlife pathology, veterinary medicine, and epidemiology. *Diseases of Coral* will help to rectify this situation.

Management of Bleached and Severely Damaged Coral Reefs Susie Westmacott, 2000

The State of Coral Reef Ecosystems of the United States and Pacific Freely Associated States, 2008

Coral Bleaching United States. Congress. Senate. National Ocean Policy Study, 1991

Coral Reef Bleaching: An Ecological and Biological Overview Norma Olguín-López, 2018 Coral reefs are central to the biology of our planet, but in the past few decades, they have suffered a severe decline due to a variety of natural and anthropogenic disturbances. On a worldwide scale, the main disturbance is bleaching, which can be defined as the loss of endosymbiotic dinoflagellates and/or of their photosynthetic pigments from their cnidarian host; with that, the normal pigmentation of the tissue of cnidarians is generally lost and the white calcium carbonate skeleton becomes visible through the transparent tissue of the host. Coral bleaching can be triggered by multiple factors, but most of the bleaching observed in the field is a result of elevated sea surface temperature. It has been widely documented that bleaching is deleterious to coral reefs, significantly altering the biological and ecological processes that maintain reef communities; yet populations resistant to climate change have recently been identified, and it has been reported that acclimatization occurs in less than two years. The aim of this review is to provide up-to-date information regarding cnidarian-dinoflagellate symbiosis; causes of coral bleaching; mechanisms underlying this phenomenon; consequences of bleaching; and the survival mechanisms by which coral reefs face this threat.

World Oceans David E. Newton, 2021-02-15 *World Oceans: A Reference Handbook* offers an in-depth discussion of the world's oceans. It discusses the marine life that is dependent on the sea as well as the problems threatening the health of the ocean and its wildlife. *World Oceans: A Reference Handbook* opens with an overview of the history of human knowledge and understanding of the oceans and cryosphere, along with related scientific, technological, social, political, and other factors. The second chapter presents and discusses about a dozen major problems facing the Earth's oceans today, along with possible solutions. The third chapter provides interested individuals with an opportunity to express their thoughts and ideas on today's ocean issues, and remaining chapters provide additional resources, such as a bibliography, a chronology, and a glossary, to assist the reader in her or his further study of the issue. Where most books for young adults learning about world oceans take a purely expository treatment, this book provides readers with additional information as well as resources, allowing them to learn more and inform further study of the subject.

Biodiversity and Conservation: Causes and consequences of biodiversity loss 2 : pollution, climate change and unsustainable exploitation Richard J. Ladle, 2009 Although 'biodiversity' is a relatively new coinage, scientists have been studying the subject it describes long before the word's first appearance in the language in the mid-1980s. In 1973, for instance, the UK Systematics Association held a symposium on 'The Changing Flora and Fauna of Britain' which concluded that not enough attention was being paid to the conservation of rarities, a conclusion also reached, said the symposium, at a meeting of the Linnaean Society some forty years earlier. By 1980, the Global 2000 Report to the President published by the US Council on Environmental Quality starkly warned of a diminution of up to one-fifth of all species by the turn of the

century, and there is now a growing consensus that the world faces a 'biodiversity crisis' - a potentially catastrophic global loss of genetic, ecosystem, and, most obviously, species diversity. Indeed, especially since the UN Convention on Biological Diversity was promulgated in Rio de Janeiro in 1992, conserving biodiversity has become the principal focus of the global conservation movement. Indeed, the study of the origins, maintenance, and protection of diversity has become perhaps the most vibrant offshoot of ecology and conservation studies. It is increasingly taught and studied in universities - and other research institutions - around the world. Addressing the need for an authoritative reference work to make sense of this rapidly growing subject, and its ever more complex and multidisciplinary corpus of scholarly literature, Biodiversity and Conservation is a new title in the Routledge series, Critical Concepts in the Environment. Edited by Richard Ladle of Oxford University's Centre for the Environment, this new Major Work brings together in five volumes the foundational and the very best cutting-edge scholarship to provide a synoptic view of all the key issues and current debates

Coral Bleaching and Marine Protected Areas, 2001 Report of the working group with significant experience in relevant coral reef research, monitoring, and marine protected area (MPA) management. It focuses on all major coral reef areas worldwide (Asia, Pacific, Indian Ocean, Caribbean, United States and Australia). The report addresses the severe impacts of climate related bleaching on coral reefs. Also discusses some potential science-based principals that could guide management of current MPAs to mitigate the impacts of coral bleaching, optimize conditions for reef recovery, and steer the establishment of new MPAs.

Coral Bleaching Factors Yves Earhart, AI, 2025-01-11 Coral Bleaching Factors delivers a comprehensive exploration of one of the ocean's most pressing environmental challenges, examining how rising ocean temperatures and environmental stressors threaten marine biodiversity through coral bleaching events. The book skillfully bridges the gap between complex marine biology and practical conservation, offering readers a deep dive into the symbiotic relationship between corals and zooxanthellae algae, and how this delicate balance can be disrupted by environmental changes. Through a systematic progression of four major sections, the book unveils the intricate mechanics of coral bleaching, from cellular-level processes to ecosystem-wide impacts. Drawing on two decades of research and NOAA data, it presents compelling case studies from the Great Barrier Reef, Caribbean, and Indo-Pacific regions. The text effectively demonstrates how local bleaching events serve as crucial indicators of broader oceanic changes, supporting this insight with thermal mapping data and coral coverage surveys from international research stations. What sets this work apart is its interdisciplinary approach, weaving together marine biology, climate science, and environmental policy to create a comprehensive understanding of coral reef ecosystems. While maintaining scientific rigor, the book remains accessible to a diverse audience, from marine biology students to environmental professionals. The final section provides practical conservation frameworks based on successful initiatives in protected marine areas, making it an invaluable resource for those actively involved in marine ecosystem preservation.

Coral Bleaching B. E. Brown, 1997 It has been over 10 years since the phenomenon of extensive coral bleaching was first described. In most cases bleaching has been attributed to elevated temperature, but other instances involving high solar irradiance, and sometimes disease, have also been documented. It is timely, in view of our concern about worldwide reef condition, to review knowledge of physical and biological factors involved in bleaching, the mechanisms of zooxanthellae and pigment loss, and the ecological consequences for coral communities. Here we evaluate recently acquired data on temperature and irradiance-induced bleaching, including long-term data sets which suggest that repeated bleaching events may be the consequence of a steadily rising background sea temperature that will in the future expose corals to an increasingly hostile environment. Cellular mechanisms of bleaching involve a variety of processes that include the degeneration of zooxanthellae in situ, release of zooxanthellae from mesenterial filaments and release of algae within host cells which become detached from the endoderm. Photo-protective defences (particularly carotenoid pigments) in zooxanthellae are likely to play an important role in limiting the bleaching response which is probably elicited by a combination of elevated temperature and irradiance in the field. The ability of corals to respond adaptively to recurrent bleaching episodes is not known, but preliminary evidence suggests that phenotypic responses of both corals and zooxanthellae may be significant.

Climate Change in Asia and Africa John P. Tiefenbacher, 2022-09-28 This volume contains studies of the implications of changing climates in Asia and Africa, two regions containing the majority of Earth's population and many less developed countries. People of this region often lack the cushion of advanced technologies or economic safety nets that the West has come to expect. The region has significant resource-development challenges, particularly for food production. The consequences of changing climates for the natural and human environments in this region are different in their social and economic contexts. The challenges are often complicated by a lack of data and lack access to relatively common technological systems that enable monitoring, field work, management, and mitigation. This book contains three parts that focus on the biophysical and social consequences of changing climates and progress toward adaptation and mitigation to change. There are studies on evapotranspiration rates in North Africa, precipitation extremes in Asia, coral bleaching in the Indian Ocean, the patterns of humid-region flood risk and hazards in Asia, the implications of climate change for Zimbabwe's horticultural sector, agricultural vulnerability in Uganda, mitigation and adaptation on palm-oil plantations in Indonesia, the value of farmer's knowledge for mitigating precipitation variability in eastern and southern Africa, sustainable carbon management in paddy rice-growing regions, adaptation to changing patterns of hazards in India, river flooding and temporary displacement of women and children of Nigerian villages, and management and mitigation of ecological impacts and diversity in Nepal.

Bleaching of Coral Reefs in the Caribbean United States. Congress. Senate. Committee on Appropriations. Subcommittee

on Commerce, Justice, State, the Judiciary, and Related Agencies,1988

Marine Ecosystems, Emerging Diseases as Indicators of Change ,1998

Fisheries Biology, Assessment and Management Michael King,2007-09-24 This excellent second edition of Fisheries Biology, Assessment and Management, has been fully updated and expanded, providing a book which is an essential purchase for students and scientists studying, working or researching in fisheries and aquatic sciences. In the same way that excessive hunting on land has threatened terrestrial species, excessive fishing in the sea has reduced stocks of marine species to dangerously low levels. In addition, the ecosystems that support coastal marine species are threatened by habitat destruction, development and pollution. Open access policies and subsidised fishing are placing seafood in danger of becoming a scarce and very expensive commodity for which there is an insatiable demand. Positive trends include actions being taken to decrease the incidental catches of non-target species, consumer preferences for seafood from sustainable fisheries, and the establishment of no-take areas that provide refuges for marine species. But there is an urgent need to do more. Because there is an increasing recognition of the need to manage ecosystems as well as fish stocks, this second edition of this bestselling text book includes an additional chapter on marine ecology. Chapters on parameter estimation and stock assessment now include step-by-step instructions on building computer spreadsheet models, including simulations with random variations that realistically emulate the vagaries of nature. Sections on ecosystem management, co-management, community-based management and marine protected areas have been expanded to match the increased interest in these areas. Containing many worked examples, computer programs and numerous high quality illustrations, Fisheries Biology, Assessment and Management, second edition, is a comprehensive and essential text for students worldwide studying fisheries, fish biology, aquatic and biological sciences. As well as serving as a core text for students, the book is a superb reference for fisheries and aquatic researchers, scientists and managers across the globe, in both temperate and tropical regions. Libraries in all universities where fish biology, fisheries, aquatic sciences and biological sciences are studied and taught will need copies of this most useful new edition on their shelves. Supplementary material is available at: www.blackwellpublishing.com/king

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