

Marine Community Ecology

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Marine Community Ecology

Markus Salomon, Till Markus



Marine Community Ecology:

Marine Community Ecology Mark D. Bertness, Steven Dean Gaines, Mark E. Hay, 2001-01 Marine Community Ecology was written to give advanced undergraduate and graduate students a current overview of what is known about the structure and organization of the assemblages of organisms that live on the sea floor Each of the nineteen chapters is written by leading researchers to give students a look at our understanding of these communities and what remains to be learned about them The book is organized into three parts The first eight chapters explore general processes that generate pattern in benthic communities These introductory chapters examine how physical and biological forces interacting with historical and genetic constraints operate to structure marine communities The middle part examines the ecology of specific marine benthic community types ranging from rocky shores and soft substrate habitats to seagrass beds and coral reefs These chapters are intended to be the most up to date summaries available of our understanding of these communities The book closes with three chapters examining conservation and management issues of marine communities These closing chapters emphasize how pervasively benthic marine communities are impacted by humans and outline how we can use our understanding of these systems to manage marine populations and communities and to design marine reserves Marine Community Ecology is extensively referenced and includes a bibliography of over 5 000 citations It is suitable as a text for advanced marine ecology courses and seminars as well as a general reference for students and researchers *Marine Community Ecology and Conservation EBook* Mark D. Bertness, John F. Bruno (Professor), Brian R. Silliman, John J. Stachowicz, 2014 *Marine Rocky Shores and Community Ecology* Robert T. Paine, 1994 *Community Ecology* Peter J. Morin, 2011-06-09 All life on earth occurs in natural assemblages called communities Community ecology is the study of patterns and processes involving these collections of two or more species Communities are typically studied using a diversity of techniques including observations of natural history statistical descriptions of natural patterns laboratory and field experiments and mathematical modelling Community patterns arise from a complex assortment of processes including competition predation mutualism indirect effects habitat selection which result in the most complex biological entities on earth including iconic systems such as rain forests and coral reefs This book introduces the reader to a balanced coverage of concepts and theories central to community ecology using examples drawn from terrestrial freshwater and marine systems and focusing on animal plant and microbial species The historical development of key concepts is described using descriptions of classic studies while examples of exciting new developments in recent studies are used to point toward future advances in our understanding of community organization Throughout there is an emphasis on the crucial interplay between observations experiments and mathematical models This second updated edition is a valuable resource for advanced undergraduates graduate students and established scientists who seek a broad overview of community ecology The book has developed from a course in community ecology that has been taught by the author since 1983 Figures and tables can be downloaded for free from www.wiley.com/go/morin

communityecology Advances in Marine Biology ,2024-09-20 Advances in Marine Biology Volume 97 the latest release in this serial that highlights new advances in the field including comprehensive chapters written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Marine Biology series Marine Hard Bottom Communities Martin Wahl,2009-06-22 Marine hard bottoms feature some of the most spectacular and diverse biological communities on this planet These not only contain a rich treasure of genetic taxonomic and functional information but also deliver irreplaceable ecosystem services At the same time they are highly vulnerable and increasingly threatened by anthropogenic pressures This volume has collected contributions by 50 scientists from numerous biogeographic regions dealing with characteristics of hard bottom communities Distributional patterns in space and time are described followed by analyses of the intrinsic and extrinsic dynamics producing these patterns A strong emphasis is placed on the ongoing changes occurring in the structure and diversity of these communities in response to spiralling environmental impacts and on state of the art countermeasures aiming to preserve these ecological treasures Finally various values of diversity are assessed hopefully as an incentive for enhanced conservation efforts *Handbook on Marine Environment Protection* Markus Salomon,Till Markus,2018-01-31 This handbook is the first of its kind to provide a clear accessible and comprehensive introduction to the most important scientific and management topics in marine environmental protection Leading experts discuss the latest perspectives and best practices in the field with a particular focus on the functioning of marine ecosystems natural processes and anthropogenic pressures The book familiarizes readers with the intricacies and challenges of managing coasts and oceans more sustainably and guides them through the maze of concepts and strategies laws and policies and the various actors that define our ability to manage marine activities Providing valuable thematic insights into marine management to inspire thoughtful application and further study it is essential reading for marine environmental scientists policy makers lawyers practitioners and anyone interested in the field Oceanography and Marine Biology R. N. Gibson,R. J. A. Atkinson,J. D. M. Gordon,2005-06-24 Written by experts actively engaged in the field Oceanography and Marine Biology An Annual Review explores the physical chemical and biological aspects of marine science An essential reference for researchers and students in all fields of marine science the text contains analyses on cold seep sediments unburnt coal in the marine environment biofiltration and biofouling on artificial structures in Europe ecology of rafting in marine ecosystems effects of globalisation in marine environments and much more Its consistent presentation and timely topics make it a perennial favorite among researchers and students in all fields of marine science **Oceanography and Marine Biology** S. J. Hawkins,A. L. Allcock,A. E. Bates,L. B. Firth,I. P. Smith,S. E. Swearer,P. A. Todd,2019-08-02 Oceanography and Marine Biology An Annual Review remains one of the most cited sources in marine science and oceanography The ever increasing interest in work in oceanography and marine biology and its relevance to global environmental issues especially global climate change and its

impacts creates a demand for authoritative reviews summarizing the results of recent research This volume covers topics that include resting cysts from coastal marine plankton facilitation cascades in marine ecosystems and the way that human activities are rapidly altering the sensory landscape and behaviour of marine animals For more than 50 years OMBAR has been an essential reference for research workers and students in all fields of marine science From Volume 57 a new international Editorial Board ensures global relevance with editors from the UK Ireland Canada Australia and Singapore The series volumes find a place in the libraries of not only marine laboratories and institutes but also universities Previous volume Impact Factors include Volume 53 4 545 Volume 54 7 000 Volume 55 5 071 Guidelines for contributors including information on illustration requirements can be downloaded on the Downloads Updates tab on the volume s CRC Press webpage Chapters 2 3 4 5 6 and 7 of this book are freely available as downloadable Open Access PDFs at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

Ho'okūpono ,2003 Marine Biodiversity Observation Network (MBON) Frank Edgar Muller-Karger, Enrique Montes, Dominique Pelletier, Juan Carlos Azofeifa-Solano, James Hendee, 2022-02-25

Edenian (Upper Ordovician) Benthic Community Ecology in North-Central Kentucky Douglas M. Lorenz, 1973

Change in Marine Communities K. Robert Clarke, Richard Martyn Warwick, 1994

An Introduction to Marine Ecology R. S. K. Barnes, R. N. Hughes, 2009-07-15 This established textbook continues to provide a comprehensive and stimulating introduction to marine ecological concepts and processes Based on a wealth of international teaching expertise An Introduction to Marine Ecology is written to be the basis for an entire undergraduate course in marine biology or ecology It covers the trophic environmental and competitive interactions of marine organisms and the effects of these on the productivity dynamics and structure of marine systems The strength of the book lies in its discussion of core topics which remains at the heart of the majority of courses in the subject despite an increasing emphasis on more applied aspects The authors maintain the tradition of clarity and conciseness set by previous editions and the text is extensively illustrated with colour plates photographs and diagrams Examples are drawn from all over the world In this edition the scientific content of the text has been fully revised and updated An emphasis has been placed on human impacts and completely new chapters have been added on fisheries marine ecosystems and human interference and conservation Completely revised and updated with a twofold increase in the number of illustrations Adopts a more applied approach in keeping with current teaching New chapters on fisheries the marine ecosystem conservation and pollution Based on a proven and successful course structure

Marine Conservation Ecology John Roff, 2013-09-05 This major textbook provides a broad coverage of the ecological foundations of marine conservation including the rationale importance and practicalities of various approaches to marine conservation and management The scope of the book encompasses an understanding of the elements of marine biodiversity from global to local levels threats to marine biodiversity and the structure and function of marine environments as related to conservation issues The authors describe the potential

approaches initiatives and various options for conservation from the genetic to the species community and ecosystem levels in marine environments They explore methods for identifying the units of conservation and the development of defensible frameworks for marine conservation They describe planning of ecologically integrated conservation strategies including decision making on size boundaries numbers and connectivity of protected area networks The book also addresses relationships between fisheries and biodiversity novel methods for conservation planning in the coastal zone and the evaluation of conservation initiatives Community Ecology in a Changing World John H. Lawton, Otto Kinne, 2000

Marine & Freshwater Research, 2015 *Community Ecology and Population Dynamics of the Nearshore Marine Fauna in the Middle Atlantic Bight (USA)* Juan Carlos Levesque, 2019 Natural resources are among the most valuable commodities on earth Some natural resources air land and water are essential for human survival and many often constitute a large percentage of local regional and national economies such as marine resources Worldwide marine resources have shaped culture society and local regional and global economies Oceanic environmental conditions influence shape and control the geographical range spatial distribution abundance and size composition of marine fauna Thus marine communities are vulnerable to major changes in the environmental conditions and disturbance short and long term but the response and severity depends on various biological or ecological factors such as resilience to stress or adaptation Given the need to describe understand and interpret these processes the broad purpose of this dissertation was to provide community based marine resource information to fishery managers responsible for conserving protecting and restoring fish communities More specifically the goal was to examine several disturbances on the population dynamics and community structure of the marine community off the coast of New Jersey The research in this dissertation developed valuable relative baselines for the nearshore environmental conditions marine fauna populations and the marine community in context of fast and slow acting disturbance Chapter One provides an overview synopsis and a historical perspective on the importance of marine resources and highlights some of the issues related to short and long term disturbances such as hurricanes and climate variability The first chapter summarizes how climate variability is affecting individual species and marine communities around the world The background chapter justifies the dissertation states the purpose and goals and describes how the hypotheses were formulated it also provides an organizational outline for the dissertation Chapter two shows the abiotic conditions and marine community is changing with time Mean surface water temperature increased significantly about 0.6 °C per decade mean salinity decreased about 1.3 psu per decade and dissolved oxygen DO increased 0.09 mg L per decade during 1988 through 2015 A total of 18.7 million individuals representing 216 species were collected during the 28 year period and the estimated abundance and biomass of marine fauna decreased and increased over time respectively Subtropic adapted species were the most abundant and coldwater adapted were the least abundant water temperature preference group The estimated abundance of coldwater adapted species declined warmwater adapted species slightly increased and subtropic adapted

species decreased with time Chapter three demonstrates marine communities are vulnerable to changes in the environmental conditions associated with hurricane events but the response and severity depends on various factors such as ecological resilience The results show the annual bottom salinity and surface DO varied significantly between pre 1988 2012 and post 2013 2015 Hurricane Sandy The oceanographic and physicochemical conditions in January varied significantly between pre and post Sandy and the interaction effect varied significantly among factors year month and geographic sampling area but the significance level depended on the sampling area For instance the abiotic conditions pre and post Sandy varied significantly in sampling area 19 which was in the direct path of the storm The marine community abundance in January also varied significantly between pre and post Sandy but the magnitude of the significance level difference in the marine community depended on the sampling area For example the marine community pre and post Sandy varied significantly in sampling areas 16 and 20 sampling area 20 was in the direct path of the storm Overall there was no significant change in the biomass and the community structure was similar pre and post Sandy Chapter four describes the biodiversity alpha and beta diversity in the nearshore marine community off New Jersey over the past 28 years Estimated species richness increased substantially during the first few years of sampling and reached asymptotic richness in about 13 years Species richness estimates varied significantly over time but in general the trend was similar and relatively stable The lowest mean species richness $n = 121.3$ species was estimated using the mean Michaelis Menten approach and the highest mean species richness $n = 156.3$ species was estimated using the mean Jackknife 2 approach Alpha diversity and evenness estimates indicated the community was composed of a few species with high abundance Fisher's alpha diversity index best described the marine community which ranged from 9.04 in 1988 to 15.95 in 1989 with an average of 11.76 ± 1.62 SD Alpha diversity and evenness indices fluctuated from one year to the next but remained stable over time Beta diversity estimates also showed interannual variability but similarity values were relatively stable over time approximately 50 percent of the species were shared among samples Analytical procedures could not detect an association between community stability and the environmental conditions suggesting the community is possibly shaped by other factors such as inter and intra species associations The findings propose the community is resilient despite the ongoing changes in the environmental and oceanic conditions In the final chapter Chapter five the findings suggest the variability in the environmental and atmospheric conditions is shifting the marine community The environmental oceanic conditions marine community and coldwater adapted community were significantly different among years and geographical sampling areas The best environmental predictors of the marine community were primarily water temperature surface and bottom maximum depth NAO and surface salinity The marine community was significantly different among years and sampling areas A similarity profile routine test SIMPROF showed there was a statistically significant structure pattern in the marine community and the main species representing the greatest similarity percentages were generally longfin squid *Loligo pealei* coldwater adapted windowpane flounder

Scophthalmus aquosus coldwater adapted and little skate Leucoraja erinacea coldwater adapted The primary species contributing to the dissimilarity were Atlantic butterfish Peprilus triacanthus warmwater adapted longfin squid scup Stenotomus chrysops warmwater adapted and bay anchovy Anchoa mitchilli subtropic adapted Longfin squid consistently contributed the most to within group similarity and between group dissimilarities The coldwater warmwater and subtropic adapted community was significantly different over time Generally longfin squid little skate and Atlantic herring Clupea harengus contributed to the difference in the coldwater adapted community and Atlantic butterfish scup and northern searobin Prionotus carolinus contributed to the difference in the warmwater adapted community over time The sequential order varied by time series but bay anchovy rough scad Trachurus lathami and striped anchovy Anchoa hepsetus constituted between 59 and 73 percent of the dissimilarity in the subtropic adapted community

Conserving Marine Environments
P. A. Hutchings, Daniel Lunney, 2003 **Animal Ecology** Charles Sutherland Elton, 1927

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