Ecology and Systematics of Foraminifera in Two *Thalassia* Habitats, Jamaica, West Indies

MARTIN A. BUZAS, ROBERTA K. SMITH, and KENNETH A. BEEM

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Ecology and Systematics of Foraminifera in Two Thalassia Habitats, Jamaica, West Indies Martin A. Buzas, Roberta K. Smith, Kenneth A. Beem, 1977 Homogeneous Thalassia beds in back reef flat less than 1 m and Discovery Bay about 3 m were sampled for 12 successive months in Jamaica West Indies Living foraminifera were enumerated in each of four monthly replicates consisting of 20 ml of sediment At the sampling times water temperature sediment temperature salinity oxygen saturation water pH sediment pH sediment median sediment sorting turbidity particulate organic carbon Thalassia weight and weight percent silt plus clay were measured In all 18 644 individuals belonging to 143 species were picked sorted and identified The back reef flat habitat contained 7 745 individuals belonging to 115 species while the Discovery Bay contained 10 899 individuals belonging to 117 species Fisher's log series fits the distribution of species abundances at both habitats well The number of species information function and equitability are usually greater at Discovery Bay for individual 20 ml samples A general linear model consisting of parameters for station differences overall periodicity interaction of station differences and overall periodicity and environmental variables was constructed The densities of the 19 most abundant species were statistically analyzed individually univariate and simultaneously multivariate Univariate analyses indicate six species have significant station differences 95% level and seven exhibit periodicity. The environmental variables are not significant for any of the species Multivariate analyses indicate a significant difference between stations and an overall periodicity As in the univariate analyses environmental variables are not significant. The results suggest that in tropical habitats changes in species densities are regulated biotically The new species Ammonia jacksoni Elphidium norvangi Fissurina goreaui Discorbinella minuta Glabratella altispira and G compressa are described Taxonomic remarks are presented for most of the species Ecology and Systematics of Foraminifera in Two Thalassia Hibitats, Jamaica, West Indies Roberta K. Smith, Kenneth A. Beem, Martin A. Buzas, 1977 **Ecology and Systematics of Foraminifera in Two** Thalassia Habitats, Jamaica, West Indies Alan H. Cheetham, Gustav Arthur Cooper, Martin A. Buzas, Porter M. Kier, Douglas M. Lorenz, Richard E. Grant, Roberta K. Smith, Kenneth A. Beem, 1977 Modern Foraminifera Barun K. Sen Gupta, 2007-05-08 From the reviews This is now the definitive authoritative text on applied for aminiferal micropaleon to logy. and should be in the library of all practicing micropaleontologists William A Berggren Woods Hole Oceanographic Institution in Micropaleontology 47 1 2001 During the last 20 years there has been an explosion of publications about foraminifera from an amazing variety of disciplines basic cell biology algal symbiosis biomineralization biogeography ecology pollution chemical oceanography geochemistry paleoceanography and geology This book summarizes contributions by leading researchers in these diverse fields It is not just another text on the biology of foraminifera Rather Barun Sen Gupta has accomplished his objective to write an advanced text for university students that would also serve as a reference book for professionals Howard J Spero University of California at Davis in Limnology and Oceanography 45 8 2000 **Meiofauna Biodiversity**

and Ecology Federica Semprucci, Roberto Sandulli, 2020-11-04 Sedimentary habitats cover the vast majority of the ocean floor and constitute the largest ecosystem on Earth These systems supply fundamental services to human beings such as food production and nutrient recycling It is well known that meiofauna are an abundant and ubiquitous component of sediments even though their biodiversity and importance in marine ecosystem functioning remain to be fully investigated In this book the meiofaunal biodiversity trends in marine habitats worldwide are documented along with the collection of empirical evidence on their role in ecosystem services such as the production consumption and decomposition of organic matter and energy transfer to higher and lower trophic levels Meiofaunal activities like feeding and bioturbation induce changes in several physico chemical and biological properties of sediments and might increase the resilience of the benthic ecosystem processes that are essential for the supply of ecosystem goods and services required by humans As a key component of marine habitats the taxonomical and functional aspects of the meiofaunal community are also used for the ecological assessment of the sediments quality status providing important information on the anthropogenic impact of benthos U.S. Geological Survey Professional Paper, 1951 Marine Research ,1969 Geological Survey Professional Paper Geological Survey (U.S.),1951 **Geological Survey Professional Paper**, 1973 **Ecology of Marine Protozoa** Gerard M. Capriulo, 1990 Recent years have seen a surge of interest in the role of protozoa in the ecology of the world's oceans In addition to their vital role in global nutrient cycles marine protozoa also exhibit some of the most interesting symbiotic associations presently known ranging from parasitism to mutualism contributing greatly to our knowledge of eukaryote evolution Additionally stratigraphic examination of extinct forms provides important keys to past world climate and ocean conditions while the study of extant forms yields major insights into present day ocean conditions and circulation patterns This volume provides a general overview of the ecology of marine protozoa It features contributions from eleven internationally known oceanographers and marine biologists on such important topics as protozoan growth and nutrition physiology feeding activities symbiosis taxonomy and paleobiology. The editor has helpfully organized the text on the basis of ecological function It is intended for use by research scientists and graduate students in the fields of marine ecology biological oceanography and marine biology as well as by microbiologists cell biologists mathematical ecologists paleontologists marine geologists and marine chemists seeking an update on the field or who are considering work in this Marine Research, Fiscal Year 1968 National Council on Marine Resources and Engineering Development area Vorontsov's Who is who in biodiversity sciences in Azerbaijan, Armenia, Belarus, Estonia, Georgia, (U.S.),1969 Kazakhstan, Kyrayzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan Irina Yu. Bakloushinskaya, David W. Minter, 2001-01-01 Biogeochemical Controls on Palaeoceanographic Environmental Proxies William E. N. Austin, Rachael James, 2008 Most of our information about the evolution of Earth's ocean climate system comes from the analysis of sediments laid down in the past For example the microfossil assemblage reflects the temperature salinity

and nutrient abundance of the water in which the organisms lived while the chemical and isotopic composition of biogenic carbonates may be used to reconstruct past variations in the operation of the carbon cycle as well as changes in ocean circulation Nevertheless understanding the link between these sediment variables or proxies and environmental conditions is not straightforward This volume adopts a novel approach by bringing together palaeontologists geochemists and palaeoceanographers who contribute evidence that is required to better constrain these proxies Topics include i processes of biomineralization and their effect on the chemical and isotopic composition of different organisms ii proxy validation including field laboratory and theoretical studies iii the links between modern and fossil organisms Zone Management Erlend Moksness, Einar Dahl, Josianne Støttrup, 2009-07-31 Coastal waters around the globe suffer from strain due to a widerange of human activities. The situation calls for a holisticapproach combining expertise from nature and social science toreach a balanced and sustainable development of the coastal zone This important book comprises the proceedings of TheInternational Symposium on Integrated Coastal Zone Management which took place in Arendal Norway between 11 14 June 2007 The main objective of the Symposium was to present currentknowledge and to address issues on advice and management related to the coastal zone The major themes of papers included in this bookare Coastal habitats Impacts on coastal systems Integrated Coastal Zone Management Coastal governance Comprising a huge wealth of information this timely and welledited volume is essential reading for all those involved incoastal zone management around the globe All libraries in researchestablishments and universities where fisheries and aquaticsciences are studied and taught will need copies of this important volume on their shelves **Monthly Catalog of United States Government Publications** ,1976 Advances in Marine Biology Michael P. Lesser, 2013-01-17 Advances in Marine Biology has been providing in depth and up to date reviews on all aspects of marine biology since 1963 over 40 years of outstanding coverage The series is well known for both its excellence of reviews and editing Now edited by Michael Lesser University of New Hampshire USA with an internationally renowned Editorial Board the serial publishes in depth and up to date content on a wide range of topics that will appeal to postgraduates and researchers in marine biology fisheries science ecology zoology and biological oceanography Advances in Marine Biology has been providing in depth and up to date reviews on all aspects of marine biology since 1963 Advances in Marine Biology, 2012-11-23 Advances in Marine Biology has been providing in depth and up to date reviews on all aspects of marine biology since 1963 over 40 years of outstanding coverage The series is well known for both its excellence of reviews and editing Now edited by Michael Lesser University of New Hampshire USA with an internationally renowned Editorial Board the serial publishes in depth and up to date content on a wide range of topics that will appeal to postgraduates and researchers in marine biology fisheries science ecology zoology and biological oceanography Advances in Marine Biology has been providing in depth and up to date reviews on all aspects of marine biology since 1963 Monthly Catalog of United States Government Publications United States. Superintendent of

Documents, 1977 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index Treatise on Zoology - Anatomy, Taxonomy, Biology. The Crustacea, Volume 5 Carel von Vaupel Klein, 2015-03-20 This fifth volume of The Crustacea contains chapters on Devoting a chapter to Pentastomida Class Eupentastomida Orders Bochusacea Mictacea and Spelaeogriphacea Order Amphipoda Order Tanaidacea For those working on Arthropoda it will be obvious that the chapters on Pentastomida are newly conceived The other chapters in this book constitute updated translations of contributions in the French edition of the Trait volume 7 III A while the order Bochusacea not featuring in the French version as only more recently described has been added in a combined treatment with the two closely similar orders Overall this constitutes the eighth tome published in this English series viz preceded by volumes 1 2004 2 2006 9A 2010 9B 2012 3 2012 4A 2013 and 4B 2014 From vol 4A onward the chapters are no longer published in the serial sequence as originally envisaged because the various contributions both the updates and the entirely new chapters become available in a more or less random order Yet when completing this series all major issues as well as all taxa currently recognized will have been treated The Crustose Coralline Algae (Rhodophyta, Corallinaceae) of the Hawaiian Islands Walter H. Adey, Roberta A. Townsend, William T. Boykins, 1982

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