



# RECONSTRUCTING OCEAN HISTORY

*A Window into the Future*

*Edited by  
Fatima Abrantes and Alan Mix*

# Reconstructing Ocean History

**John A Matthews**



## **Reconstructing Ocean History:**

Reconstructing Ocean History Fatima Abrantes, Alan Mix, 1999-12-31 This book the proceedings of the Sixth International Conference on Paleoceanography held August 23-28 1998 in Lisbon Portugal provides a unique coverage and an overview of a number of different areas within the field of paleoceanography Analysis and discussion is centered upon five major themes which comprise the sections of the book Polar tropical and interhemisphere linkages Does the ocean cause or respond to abrupt climatic changes Biotic responses to major paleoceanographic changes Past warm climates and Innovations in monitoring ocean history With up to date information on current research and developments within these fields and critical evaluation of new approaches and methods for monitoring ocean history this work is an invaluable source of reference for researchers students and teachers alike Reconstructing Ocean History ,1998 **Ocean Drilling Program Proceedings**

Ocean Drilling Program,2003 *Use of Proxies in Paleoceanography* Gerhard Fischer, Gerold Wefer,2012-12-06

Paleoceanographic proxies provide information for reconstructions of the past including climate changes global and regional oceanography and the cycles of biochemical components in the ocean These proxies are measurable descriptors for desired but unobservable environmental variables such as temperature salinity primary productivity nutrient content or surface water carbon dioxide concentrations The proxies are employed in a manner analogous to oceanographic methods The water masses are first characterized according to their specific physical and chemical properties and then related to particular assemblages of certain organisms or to particular element or isotope distributions We have a long standing series of proven proxies available Marine microfossil assemblages for instance are employed to reconstruct surface water temperatures The calcareous shells of planktonic and benthic microorganisms contain a wealth of paleoceanographic information in their isotopic and elemental compositions Stable oxygen isotope measurements are used to determine ice volume and Mg/Ca ratios are related to water temperatures to cite a few examples Organic material may also provide valuable information e.g. about past productivity conditions Studying the stable carbon isotope composition of bulk organic matter or individual marine organic components may provide a measure of past surface water CO<sub>2</sub> conditions within the bounds of certain assumptions Within the scope of paleoceanographic investigations the existing proxies are continuously evolving and improving while new proxies are being studied and developed The methodology is improved by analysis of samples from the water column and surface sediments and through laboratory experiments **From Headwaters to the Ocean** Makoto Taniguchi, William C.

Burnett, Yoshihiro Fukushima, MARTIN HAIGH, Yu Umezawa, 2008-09-11 The vulnerability of water resources due to climate change and human activities is globally increasing The phenomenon of hydrological change is complicated because of the combinations and interactions between natural climate fluctuation global warming and human activities including changes in land utilization The impact areas of hydrological changes are also not only within the basin but reach to the ocean through coastal water exchanges This book presents contributions focused on integrated water management from headwater to the

ocean in a time of climate change and increasing population      *Cold-Water Corals and Ecosystems* André Freiwald, J. Murray Roberts, 2006-01-17 Following the exciting exploration of hot vent and cold seep ecosystems the rediscovery of cold water coral ecosystems with high technology instrumentation is currently another hot topic in multidisciplinary marine research Conventionally coral reefs are regarded as restricted to warm and well illuminated tropical seas not associated with cold and dark waters of higher latitudes However ongoing scientific missions have shed light on the global significance of this overlooked ecosystem Cold water coral ecosystems are involved in the formation of large seabed structures such as reefs and giant carbonate mounds and they represent unexploited paleo environmental archives of earth history Like their tropical cousins cold water coral ecosystems harbour rich species diversity Despite the great water depths commercial interests overlap more and more with the coral occurrences Human activities already impinge directly on cold water coral reefs causing severe damage to this vulnerable ecosystem In this volume the current key institutions involved in cold water coral research have contributed 62 state of the art articles from geology and oceanography to biology and conservation

*Climate Change and Cultural Dynamics* David G. Anderson, Kirk Maasch, Daniel H. Sandweiss, 2011-07-28 The Middle Holocene epoch 8 000 to 3 000 years ago was a time of dramatic changes in the physical world and in human cultures Across this span climatic conditions changed rapidly with cooling in the high to mid latitudes and drying in the tropics In many parts of the world human groups became more complex with early horticultural systems replaced by intensive agriculture and small scale societies being replaced by larger more hierarchial organizations *Climate Change and Cultural Dynamics* explores the cause and effect relationship between climatic change and cultural transformations across the mid Holocene c 4000 B C Explores the role of climatic change on the development of society around the world Chapters detail diverse geographical regions Co written by noted archaeologists and paleoclimatologists for non specialists      *Reconstructing Quaternary Environments* J. John Lowe, Michael Walker, 2014-10-28 This third edition of *Reconstructing Quaternary Environments* has been completely revised and updated to provide a new account of the history and scale of environmental changes during the Quaternary The evidence is extremely diverse ranging from landforms and sediments to fossil assemblages and geochemical data and includes new data from terrestrial marine and ice core records Dating methods are described and evaluated while the principles and practices of Quaternary stratigraphy are also discussed The volume concludes with a new chapter which considers some of the key questions about the nature causes and consequences of global climatic and environmental change over a range of temporal scales This synthesis builds on the methods and approaches described earlier in the book to show how a number of exciting ideas that have emerged over the last two decades are providing new insights into the operation of the global earth ocean atmosphere system and are now central to many areas of contemporary Quaternary research This comprehensive and dynamic textbook is richly illustrated throughout with full colour figures and photographs The book will be of interest to undergraduates postgraduates and professionals in Earth Science

Environmental Science Physical Geography Geology Botany Zoology Ecology Archaeology and Anthropology      *CO2 in Seawater: Equilibrium, Kinetics, Isotopes* R.E. Zeebe, D. Wolf-Gladrow, 2001-10-15 Carbon dioxide is the most important greenhouse gas after water vapor in the atmosphere of the earth More than 98% of the carbon of the atmosphere ocean system is stored in the oceans as dissolved inorganic carbon The key for understanding critical processes of the marine carbon cycle is a sound knowledge of the seawater carbonate chemistry including equilibrium and nonequilibrium properties as well as stable isotope fractionation Presenting the first coherent text describing equilibrium and nonequilibrium properties and stable isotope fractionation among the elements of the carbonate system This volume presents an overview and a synthesis of these subjects which should be useful for graduate students and researchers in various fields such as biogeochemistry chemical oceanography paleoceanography marine biology marine chemistry marine geology and others The volume includes an introduction to the equilibrium properties of the carbonate system in which basic concepts such as equilibrium constants alkalinity pH scales and buffering are discussed It also deals with the nonequilibrium properties of the seawater carbonate chemistry Whereas principle of chemical kinetics are recapitulated reaction rates and relaxation times of the carbonate system are considered in details The book also provides a general introduction to stable isotope fractionation and describes the partitioning of carbon oxygen and boron isotopes between the species of the carbonate system The appendix contains formulas for the equilibrium constants of the carbonate system mathematical expressions to calculate carbonate system parameters answers to exercises and more      Reconstructing Quaternary Environments J.J. Lowe, M.J.C. Walker, 2014-07-10 Examines the various forms of evidence used to establish the history and scale of environmental changes during the Quaternary The evidence is extremely diverse ranging from landforms and sediments to fossil assemblages and isotope ratios bringing the book fully up to date since its last publication      **Paleoclimatology** Gilles Ramstein, Amaëlle Landais, Nathaëlle Bouttes, Pierre Sepulchre, Aline Govin, 2020-11-09 This two volume book provides a comprehensive detailed understanding of paleoclimatology beginning by describing the proxy data from which quantitative climate parameters are reconstructed and finally by developing a comprehensive Earth system model able to simulate past climates of the Earth It compiles contributions from specialists in each field who each have an in depth knowledge of their particular area of expertise The first volume is devoted to Finding dating and interpreting the evidence It describes the different geochronological technical methods used in paleoclimatology Different fields of geosciences such as stratigraphy magnetism dendrochronology sedimentology are drawn from and proxy reconstructions from ice sheets terrestrial speleothems lakes and vegetation and oceanic data are used to reconstruct the ancient climates of the Earth The second volume entitled Investigation into ancient climates focuses on building comprehensive models of past climate evolution The chapters are based on understanding the processes driving the evolution of each component of the Earth system atmosphere ocean ice This volume provides both an analytical understanding of each component using a hierarchy of models from conceptual to

very sophisticated 3D general circulation models and a synthetic approach incorporating all of these components to explore the evolution of the Earth as a global system As a whole this book provides the reader with a complete view of data reconstruction and modeling of the climate of the Earth from deep time to present day with even an excursion to include impacts on future climate

*Encyclopedia of Environmental Change* John A Matthews, 2013-12-13 Accessibly written by a team of international authors the Encyclopedia of Environmental Change provides a gateway to the complex facts concepts techniques methodology and philosophy of environmental change This three volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field The encyclopedia includes all of the following aspects of environmental change Diverse evidence of environmental change including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide ranging local regional and global impacts from the polar regions to the tropics Responses of geo ecosystems and human environmental systems in the face of past present and future environmental change Approaches methodologies and techniques used for reconstructing dating monitoring modelling projecting and predicting change Social economic and political dimensions of environmental issues environmental conservation and management and environmental policy Over 4 000 entries explore the following key themes and more Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Landuse change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one line definitions to short essays making this an invaluable companion for any student of physical geography environmental geography or environmental sciences

Global Climate Change and Response of Carbon Cycle in the Equatorial Pacific and Indian Oceans and Adjacent Landmasses Hodaka Kawahata, Yoshio A. Awaya, 2006-12-08 To understand the global warming mechanism global mapping of primary production was carried out under the GCMAPS program The program was concerned with marine and terrestrial environmental changes which affect carbon cycle on the regional and global scales On the regional scale warm phase of ENSO El Ni o Southern Oscillation has been shown to affect economic activities in many countries The keyword for understanding mechanism of global warming is primary productivity The earth observation satellites EOS like the ADEOS of Japan and the SeaWiFS Sea Star and Terra of the U S A provided much required data for modeling and verification of primary production estimates on both land and ocean The knowledge gained during the GCMAPS program has been documented in this book Interpretation of the data suggests that global warming which causes temperature and sea level rise and changes in climate and ecosystems is likely to have the largest influence on mankind The first half of this book discuss changes in marine environments Physical and chemical oceanographic properties of the equatorial Pacific and Indian Oceans are presented Changes in partial pressure of carbon

dioxide flux and composition of settling particles and biological communities in the surface ocean have also been discussed In addition to this over hundred years of environmental records based upon coral skeletons are presented Estimations of primary production and its utilization in validating satellite imagery data were conducted in the western North Pacific Primary productivity estimates based upon the validated satellite imagery are presented on the global scale Climate change modeling of primary production in global oceans is also presented The latter half of this book deals with changes in terrestrial environments Primary productivity estimates for different types of ecosystems e g forest grassland are presented together with soil carbon dynamics Also biomass and productivity estimation and environmental monitoring based upon remote sensing techniques are presented with a model analysis of the relationship between climate perturbations and carbon budget anomalies in global terrestrial ecosystems This book elucidates integrated aspects of the global carbon cycle involving marine and terrestrial environments Discusses a current understanding of the biogeochemical processes on land and ocean Provides global mapping of primary production based on satellite imagery data and modelling Presents the latest interpretations of relationships between carbon cycle and climatic change      Chemistry of Marine Water and Sediments

Antonio Gianguzza,Ezio Pelizzetti,Silvio Sammartano,2013-06-29 The most important processes on the Earth s surface occur in the Ocean where materials and energy are primarily exchanged In the case of marine chemistry different fields of chemistry from organic to inorganic as well as thermodynamics and biochemistry are involved Analytical Chemistry is a very important tool for the quantification of biogeochemical processes by providing correct and even more sophisticated methodologies These are often directly applied in situ in order to detect trace and ultra trace natural and anthropogenic substances Kinetic and thermodynamic studies allow us to establish whether the process occurs Once discovered it is then possible to build up general models for environmental systems This book gathers many aspects with the aim of creating a general picture of the chemical processes occurring in the marine environment      **Micropaleontology** Pratul Kumar Saraswati,M.S. Srinivasan,2015-12-17 This book will help readers learn the basic skills needed to study microfossils especially those without a formal background in paleontology It details key principles explains how to identify different groups of microfossils and provides insight into their potential applications in solving geologic problems Basic principles are addressed with examples that explore the strengths and limitations of microfossils and their geological records This overview provides an understanding of taphonomy and quality of the fossil records biomineralization and biogeochemistry taxonomy concepts of species and basic concepts of ecology Readers learn about the major groups of microfossils including their morphology ecology and geologic history Coverage includes foraminifera ostracoda coccolithophores pteropods radiolaria diatoms silicoflagellates conodonts dinoflagellates acritarch and spores and pollens In this coverage marine microfossils and particularly foraminifera are discussed in more detail compared with the other groups as they continue to play a major role in most scientific investigations Among the various tracers of earth history microfossils provide the most diverse kinds of

information to earth scientists This richly illustrated volume will help students and professionals understand microfossils and provide insight on how to work with them to better understand evolution of life and age and the paleoenvironment of sedimentary strata

Reconstruction of the Paleo-Asian Ocean Robert G. Coleman, E. H. Juvigné, 1994 This Proceedings volume contains selected papers from two symposia which were held during the 29th International Geological Congress Kyoto Japan 24 August 3 September 1992 The first symposium Reconstruction of the Paleo Asian Ocean contains 11 papers from a group of scientists working together in an international project of the same name The goal of the project is to collect and evaluate petrologic and tectonic data within specific terranes so as to understand the geodynamic processes leading to the amalgamation of Asia These papers represent vital geological discussions for interpreting the geodynamic maps being produced by the project From the second symposium of this volume Quaternary Environmental Change 14 papers were selected The wide range of topics can be divided as follows Deep sea core analysis Coral reef and nearshore environment Paleoenvironmental analysis Tephra Loess and Pedology River morphology and others

New Techniques in Sediment Core Analysis R. G. Rothwell, 2006 In this volume recent advances in analytical and logging technology and their application to the analysis of sediment cores are presented Developments in providing access to core data and associated datasets and advances in data mining technology in order to integrate and interpret new and legacy datasets within the wider context of seafloor studies are also discussed

Nature and Significance of the Recent Carbonate Mound Record Anneleen Foubert, Jean-Pierre Henriot, 2009-06-11 Carbonate mounds are an important feature along the European North Atlantic margins The presence of giant carbonate mounds in the Porcupine Seabight on the Porcupine Bank in the Rockall Trough and on the Rockall Bank west of Ireland have been known since the nineties and have been the target of several cruises during the last decade However the processes of mound build up and mound nucleation are not yet completely understood What keeps a mound growing over extended time periods How does the biosphere interact with sedimentary fluxes to make a mound grow On which level do palaeoclimatological and palaeoceanographic changes control mound growth Which diagenetic processes play an important role in carbonate mound generation and how do they affect the mound The present study focuses on the nature and significance of the carbonate mound record and the nature and internal structure of one specific carbonate mound the Challenger Mound is described in detail and compared with other mounds from the Irish margin and also with those from the Moroccan margin The variety of mound characteristics are discussed along with the associated oceanographic and geological settings and an appropriate classification for recent carbonate mound systems and cold water coral reefs is presented Video imagery through Remotely Operated Vehicle ROV surveys provide images of the surface of different carbonate mounds to highlight morphological characteristics of the mounds The role of recent carbonate mounds such as Challenger Mound in the global carbonate budget is discussed along with inferences on how recent carbonate mounds can be seen as analogues of ancient mud mound systems

*Our Changing Planet*, 1989 *Tropical and*



*sub-tropical West Africa - Marine and continental changes during the Late Quaternary* P. Giresse, 2007-11-30 West Africa and the eastern Atlantic stretching from Mauritania in the north to Namibia in the south offer a large latitudinal stretch incorporating nearly symmetrical climatic gradients from the Equator On the time scale of Quaternary Glacial and Interglacial cycles today we possess well documented and recently published marine sedimentary records showing changes in oceanic and atmospheric circulations and terrestrial fluxes Deep sea sediment records contain a wide range of palaeoenvironmental indicators like oxygen and carbon isotopes alkenones foraminiferal and other planktonic assemblages over time periods up to and greater than 125 000 years These are signals of temperature and circulation shifts and allow Interglacial and Glacial comparisons on a regional and inter hemispheric scale However this effort to synthesize the existing knowledge cannot yet aspire to a global modelling Linking with terrestrial records albeit spatially patchy and generally lacking a firm chronology this book points to shorter time scale chronologies from lakes marshes and river deposits Diverse and not very wellknown literature both French and English is reported here Lastly the book records recent knowledge of the first steps of human occupation of frequently hostile environments and considers the environmental impact of ancient and modern societies Covers the recent studies about marine Quaternary environments off West Africa as well as continental Quaternary environments of tropical and sub tropical West Africa over 10 000 to 100 000 years Compares the parallel between palae oenvironmental trends according to latitudinal gradients

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