



RECONSTRUCTING OCEAN HISTORY

A Window into the Future

*Edited by
Fatima Abrantes and Alan Mix*

Reconstructing Ocean History

Gillian Fellows-Jensen



Reconstructing Ocean History:

Reconstructing Ocean History Fatima Abrantes, Alan Mix, 2012-12-06 This volume is one outcome of the 6th International Conference on Paleoclimatology ICP VI The conference was held August 23-28 1998 in Lisbon Portugal The meeting followed the traditional format of a small number of invited oral presentations complemented by a large number of contributed posters Over 550 participants attended representing thirty countries and nearly 450 posters were presented The invited speakers addressed the main themes of the 5 oral sessions The session topics were Polar Tropical and Interhemisphere Linkages Does the Ocean Cause or Respond to Abrupt Climatic Changes Biotic Responses to Major Paleoclimatographic Changes Past Warm Climates and Innovations In Monitoring Ocean History This is the first time in ICP history that the Conference Proceedings are published The aim of the organisers with the publication of this book is two fold to provide a useful review of the field and to document the ideas controversies raised during the conference that may stimulate future work The book reflects the initial intentions of the conference but it is not a conventional conference proceedings given that the papers have been reviewed by formal external referees Each of the conference topics is introduced by a review article designed to summarize the state of the art in each theme followed by articles prepared by the invited speakers As with most conference proceedings each theme is covered heterogeneously Some topics have all the expected contributions others are less well covered

Reconstructing Ocean History, 1998 *Reconstructing Ocean History* Fatima Abrantes, Alan Mix, 1999-12-31 This book the proceedings of the Sixth International Conference on Paleoclimatology 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 paleoclimatology 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 paleoclimatographic 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

Isotopes in Palaeoenvironmental Research Melanie J. Leng, 2006-01-27 This volume is intended to show how stable isotopes can be applied to understanding the palaeoenvironment There are chapters on the interpretation of isotopes in water tree rings bones and teeth lake sediments speleothems and marine sediments Crucial to the understanding of the environmental signal contained within the isotope composition of different materials is to gain more information about how rainfall isotope compositions are determined by climate Chapter 1 Darling et al describes O H and C stable isotope compositions in the modern day water and aqueous carbon cycles to provide a framework for the interpretation of these isotopes in the past The chapter on the water cycle divides naturally into a number of sections The starting point precipitation is especially important because it is the precursor to which most O and H isotope proxy studies

are attempting to relate While much is understood about the isotope systematics of precipitation largely owing to the existence of the IAEA WMO Global Network for Isotopes in Precipitation GNIP important questions remain to be answered in relation to the isotope temperature gradients of past climatic conditions The chapter describes the three reservoirs of water sustaining all terrestrial proxies soil and vadose zone moisture groundwater and surface waters In each reservoir isotope effects intervene to modify to a greater or lesser extent the isotope signature of antecedent precipitation groundwaters are least affected and surface waters the most

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

The Oceans and Marine Geochemistry H. Elderfield, 2006-06-20 The Treatise on Geochemistry is the first work providing a comprehensive integrated summary of the

present state of geochemistry It deals with all the major subjects in the field ranging from the chemistry of the solar system to environmental geochemistry The Treatise on Geochemistry has drawn on the expertise of outstanding scientists throughout the world creating the reference work in geochemistry for the next decade Each volume consists of fifteen to twenty five chapters written by recognized authorities in their fields and chosen by the Volume Editors in consultation with the Executive Editors Particular emphasis has been placed on integrating the subject matter of the individual chapters and volumes Elsevier also offers the Treatise on Geochemistry in electronic format via the online platform ScienceDirect the most comprehensive database of academic research on the Internet today enhanced by a suite of sophisticated linking searching and retrieval tools

Ocean Drilling Program Proceedings Ocean Drilling Program,2003

Use of Proxies in Paleooceanography Gerhard Fischer, Gerold Wefer, 2012-12-06 Paleooceanographic 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 paleooceanographic 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 CO₂ conditions within the bounds of certain assumptions Within the scope of paleooceanographic 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

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 **Denmark and Scotland** Gillian Fellows-Jensen, 2001 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 *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 geo

chronological 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 *Marine Policy and Economics*, 2010-10-25 Elements of Physical Oceanography is a derivative of the Encyclopedia of Ocean Sciences Second Edition and serves as an important reference on current physical oceanography knowledge and expertise in one convenient and accessible source Its selection of articles all written by experts in their field focuses on ocean physics air sea transfers waves mixing ice and the processes of transfer of properties such as heat salinity momentum and dissolved gases within and into the ocean Elements of Physical Oceanography serves as an ideal reference for topical research References related articles in physical oceanography to facilitate further research Richly illustrated with figures and tables that aid in understanding key concepts Includes an introductory overview and then explores each topic in detail making it useful to experts and graduate level researchers Topical arrangement makes it the perfect desk reference

Our Changing Planet Climate Change Science Program (U.S.), U.S. Global Change Research Program., 1989 **Our Changing Planet : the FY 1990 Research Plan** Federal Coordinating Council for Science, Engineering, and Technology. Committee on Earth Sciences, 1989 *Abrupt Impacts of Climate Change* National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, Committee on Understanding and Monitoring Abrupt Climate Change and Its Impacts, 2013-12-31 Climate is changing forced out of the range of the past million years by levels of carbon dioxide and other greenhouse gases not seen in the Earth's atmosphere for a very very long time Lacking action by the world's nations it is clear that the planet will be warmer sea level will rise and patterns of rainfall will change But the future is also partly uncertain there is considerable uncertainty about how we will arrive at that different climate Will the changes be gradual allowing natural systems and societal infrastructure to adjust in a timely fashion Or will some of the changes be more abrupt crossing some threshold or tipping point to change so fast that the time between when a problem is recognized and when action is required shrinks to the point where orderly adaptation is not possible Abrupt Impacts of Climate Change is an updated look at the issue of abrupt climate change and its potential impacts This study differs from previous treatments of abrupt changes by focusing on abrupt climate changes and also abrupt climate impacts that have the potential to severely

affect the physical climate system natural systems or human systems often affecting multiple interconnected areas of concern The primary timescale of concern is years to decades A key characteristic of these changes is that they can come faster than expected planned or budgeted for forcing more reactive rather than proactive modes of behavior Abrupt Impacts of Climate Change summarizes the state of our knowledge about potential abrupt changes and abrupt climate impacts and categorizes changes that are already occurring have a high probability of occurrence or are unlikely to occur Because of the substantial risks to society and nature posed by abrupt changes this report recommends the development of an Abrupt Change Early Warning System that would allow for the prediction and possible mitigation of such changes before their societal impacts are severe Identifying key vulnerabilities can help guide efforts to increase resiliency and avoid large damages from abrupt change in the climate system or in abrupt impacts of gradual changes in the climate system and facilitate more informed decisions on the proper balance between mitigation and adaptation Although there is still much to learn about abrupt climate change and abrupt climate impacts to willfully ignore the threat of abrupt change could lead to more costs loss of life suffering and environmental degradation Abrupt Impacts of Climate Change makes the case that the time is here to be serious about the threat of tipping points so as to better anticipate and prepare ourselves for the inevitable surprises

Wetlands: Ecosystem Services, Restoration and Wise Use Shuqing An, Jos T. A. Verhoeven, 2019-07-04 This volume explores major wetland ecosystem services such as climate cooling and water quality improvement and discusses the recent wetland conservation and restoration activities in China and neighboring countries The role of wetlands in either cooling or warming the climate is analyzed as the net balance between carbon sequestration and emissions of methane and nitrous oxide Wetlands start off having a net warming effect on the climate but in time switch to net cooling Further they remove 40% of the N and P from run off and groundwater flow in agricultural areas but wetlands need to amount to 10% of the total catchment area to make a difference Reflecting on the recent large investment in wetland ecological studies in China and neighboring countries the book addresses invasive species in coastal wetlands as well as the protection and wise use of tidal flats around the Yellow Sea It also presents promising regional case studies on wetland restoration The book is intended for academics students and practitioners in the field of wetland ecology management and restoration as well as consultants and professionals working in conservation wise use and environmental policy

Geochemistry of Earth Surface Systems Heinrich D Holland, Karl K. Turekian, 2010-09-27 Geochemistry of Earth Surface Systems offers an interdisciplinary reference for scientists researchers and upper undergraduate and graduate level geochemistry students a sampling of articles on earth surface processes from The Treatise on Geochemistry that is more affordable than the full Treatise For professionals this volume will provide an overview of the field as a whole For students it will provide more in depth introductory content than is found in broad based geochemistry textbooks Articles were selected from chapters across all volumes of the full Treatise and include Volcanic Degassing Hydrothermal Processes The Contemporary Carbon Cycle Global Occurrence of Major Elements

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