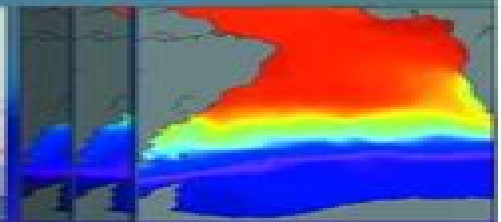


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THE SOUTH ATLANTIC IN THE LATE QUATERNARY



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of Material Budgets
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South Atlantic In The Late Quaternary

M. Kucera, R. Schneider, M. Weinelt



South Atlantic In The Late Quaternary:

The South Atlantic in the Late Quaternary Gerold Wefer, Stefan Mulitza, Volker Ratmeyer, 2012-12-06 The South Atlantic plays a critical role in the coupling of oceanic processes between the Antarctic and the lower latitudes. The Antarctic Ocean along with the adjacent southern seas is of substantial importance for global climate and for the distribution of water masses because it provides large regions of the world ocean with intermediate and bottom waters. In contrast to the North Atlantic, the Southern Ocean acts more as an information distributor as opposed to an amplifier. Just as the North Atlantic is influenced by the South Atlantic through the contribution of warm surface water, the incoming supply of NADW in the area of the Southern Ocean as Circumantarctic Deep Water influences the oceanography of the Antarctic. The competing influences from the northern and southern oceans on the current and mass budget systems can be best studied in the South Atlantic. Not only do changes in the current systems in the eastern Atlantic high production regions affect the energy budget; they also influence the nutrient inventories and therefore impact the entire productivity of the ocean. In addition, the broad region of the polar front is a critical area with respect to productivity-related circulation since it is the source of Antarctic Intermediate Water. Although the Antarctic Intermediate Water today lies deeper than the water that rises in the upwelling regions, it is the long-term source of nutrients that are ultimately responsible for the supply of organic matter to the sea floor and to sediments.

The South Atlantic in the Late Quaternary Gerold Wefer, Stefan Mulitza, Volker Ratmeyer, 2004-04-13 The South Atlantic plays a significant role as a link between the Antarctic Ocean and the North Atlantic both in terms of the heat budget of the North Atlantic and the circulation of the entire ocean. The heat and mass exchanges between the Antarctic Ocean and the South Atlantic during the Late Quaternary have been investigated over the past ten years, including their impact on world climate. This has required the study of present-day early diagenetic processes in the water column and sediments as well as sediment properties that have a close relationship to environmental parameters (proxies) which can be used to decipher past conditions (temperature, salinity, productivity, etc.). The interdisciplinary research project 'The South Atlantic in the Late Quaternary: Reconstruction of material budgets and current systems' was a long-term scientific program at Bremen University. This program benefited from the sample material gained on several expeditions with the research vessels *Meteor* and *Polarstern*. This book presents the summarized results of the various topics of study in 30 articles arranged in seven sections.

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Deep-Sea Sediments H. Huneke,T. Mulder,2011-02-08 Deep Sea Sediments focuses on the sedimentary processes operating within the various modern and ancient deep sea environments The chapters track the way of sedimentary particles from continental erosion or production in the marine realm to transport into the deep sea to final deposition on the sea floor

The Late Quaternary South Atlantic Sharon L. Alley,1981 Proceedings of the Ocean Drilling Program Ocean Drilling Program,1998 Vol 174AX bound with Proceedings of the Ocean Drilling Program Scientific results Vol 174A *The South Atlantic* Gerold Wefer,Wolfgang H. Berger,Gerold Siedler,David J. Webb,2012-12-06 The book presents results of recent projects in oceanography and marine geosciences e g WOCE JGOFS PAGES ODP regarding present and past circulation in the South Atlantic The objective of the book is to integrate results from both oceanographic and geological studies As the connecting link between the Antarctic and the North Atlantic the South Atlantic plays a crucial role with regard to the heat budget of the North Atlantic and to the biogeochemical budget of the global ocean New results from studies of meridional water mass and heat transports are presented The central theme of geological investigations is the reconstruction of current and productivity systems in the South Atlantic during the late Quaternary *MARGO* M. Kucera,R. Schneider,M. Weinelt,2006-04-10 MARGO Multiproxy Approach for the Reconstruction of the Glacial Ocean surface summarizes the results of the MARGO international working group with the aim to develop an updated and harmonised reconstruction of sea surface temperatures and sea ice extent of the Last Glacial Maximum oceans The MARGO approach differs from previous efforts by developing and consistently applying measures of various aspects of reconstruction reliability and by combining faunal and geochemical proxies In 14 papers the volume provides a comprehensive review of earlier work and a series of new proxy specific reconstructions based on census counts of planktonic foraminifera diatoms radiolaria and dinoflagellate cysts as well as on Mg Ca measurements in planktonic foraminifera The approach of harmonising the calibration and application of different proxies is described in detail various paleothermometry techniques and their results are compared and the challenge of treating sparsely sampled data as the basis for ocean circulation models is addressed The use of stable oxygen isotope composition of foraminiferal shells as a proxy for past sea water composition is comprehensively reassessed and a new approach to the transfer function paleothermometer is presented This volume represents a landmark contribution to the understanding of ice age oceanography as well as the proxies used to reconstruct past ocean states The results will form the basis for forcing and validation of ocean circulation models New regional reconstructions of Last Glacial Maximum ocean temperatures and sea ice cover Compilation of new calibration and fossil datasets as well as documentation

of techniques and approaches to paleoenvironmental reconstructions Comparison of techniques proxies and modelling approaches

Proxies in Late Cenozoic Paleoceanography C. Hillaire-Marcel, Anne de Vernal, 2007-05-25 The present volume is the first in a series of two books dedicated to the paleoceanography of the Late Cenozoic ocean The need for an updated synthesis on paleoceanographic science is urgent owing to the huge and very diversified progress made in this domain during the last decade In addition no comprehensive monography still exists in this domain This is quite incomprehensible in view of the contribution of paleoceanographic research to our present understanding of the dynamics of the climate ocean system The focus on the Late Cenozoic ocean responds to two constraints Firstly most quantitative methods notably those based on micropaleontological approaches cannot be used back in time beyond a few million years at most Secondly the last few million years with their strong climate oscillations show specific high frequency changes of the ocean with a relatively reduced influence of tectonics The first volume addresses quantitative methodologies to reconstruct the dynamics of the ocean and the second major aspects of the ocean system thermohaline circulation carbon cycle productivity sea level etc and will also present regional synthesis about the paleoceanography of major the oceanic basins In both cases the focus is the open ocean leaving aside nearshore processes that depend too much on local conditions In this first volume we have gathered up to date methodologies for the measurement and quantitative interpretation of tracers and proxies in deep sea sediments that allow reconstruction of a few key past properties of the ocean temperature salinity sea ice cover seasonal gradients pH ventilation oceanic currents thermohaline circulation and paleoproductivity Chapters encompass physical methods conventional grain size studies tomography densitometry magnetic and mineralogical properties most current biological proxies planktic and benthic foraminifers deep sea corals diatoms coccoliths dinocysts and biomarkers and key geochemical tracers trace elements stable isotopes radiogenic isotopes and U series Contributors to the book and members of the review panel are among the best scientists in their specialty They represent major European and North American laboratories and thus provide a priori guarantees to the quality and update of the entire book Scientists and graduate students in paleoclimatology paleoceanography climate modeling and undergraduate and graduate students in marine geology represent the target audience This volume should be of interest for scientists involved in several international programs such as those linked to the IPCC IODP Integrated Ocean Drilling Program PAGES Past Global Changes IMAGES Marine Global Changes PMIP Paleoclimate Intercomparison Project several IGCP projects etc That is all programs that require access to time series illustrating changes in the climate ocean system Presents updated techniques and methods in paleoceanography Reviews the state of the art interpretation of proxies used for quantitative reconstruction of the climate ocean system Acts as a supplement for undergraduate and graduate courses in paleoceanography and marine geology

Coccolithophores Hans R. Thierstein, Jeremy R. Young, 2013-03-09 In the past few years rapid progress has been made regarding our understanding of one of the dominant phytoplankton groups of the world's oceans the coccolithophores Among other initiatives the EU

funded TMR network CODENET Coccolithophores Evolutionary Biodiversity and Ecology Network has provided new results and insights These and many other findings are reviewed and synthesized in a number of individual chapters which focus on coccolithophore biology molecular to cellular ecology experimental and in the ocean evolutionary phylogeny and its impact on current and past global changes Coccolithophores are emerging as a prime model for interdisciplinary global change research due to their great abundance wide distribution and exemplary geological record The results presented in this book address the fundamental question of the interaction between the biota and the environment at various temporal and spatial scales

Multi-Disciplinary Applications in Magnetic Chronostratigraphy Kenneth Philip Kodama, Luigi Jovane, Linda Hinnov, 2021-03-04 *Geological History of the Polar Oceans: Arctic versus Antarctic* U. Bleil, Jörn Thiede, 2012-12-06 Proceedings of the NATO Advanced Research Workshop Bremen Germany October 10 14 1988 *Paleoclimates* Thomas M. Cronin, 2010 When combined with computer model simulations paleoclimatic reconstructions are used to test hypotheses about the causes of climatic change such as greenhouse gases solar variability earth's orbital variations and hydrological oceanic and tectonic processes This book is a comprehensive state of the art synthesis of paleoclimate research covering all geological timescales emphasizing topics that shed light on modern trends in the earth's climate Book Jacket **Marine Geochemistry** Horst D. Schulz, Matthias Zabel, 2013-04-17 Since 1980 a considerable amount of scientific research dealing with geochemical processes in marine sediments has been carried out This textbook summarizes the state of the art in this field of research The topics comprise the examination of sedimentological and physical properties of the sedimentary solid phase of pore water and pore water constituents organic matter as the driving force of most microbiological processes biotic and abiotic redox reactions carbonates and stable isotopes as proxies for paleoclimate reconstruction metal enrichments in ferromanganese nodules and crusts as well as in hot vents and cold seeps on the seafloor A new chapter describes properties occurrence and formation of gas hydrates in marine sediments The textbook ends with a chapter on model conceptions and computer models to quantify processes of early diagenesis **Sedimentation History in the Arctic Ocean and Subarctic Seas for the Last 130 kyr** M. A. Levitan, Yu A. Lavrushin, 2012-02-10 The book reflects the results of the study of sedimentation history paleoclimatology and paleoceanography of the Arctic and Subarctic during the last 130 ka The main objects under consideration are marine basins of the West Subarctic Iceland Norwegian and Greenland Seas the Arctic Ocean Barents Pechora Kara Laptev East Siberian Chukchi Seas and deep sea Arctic Ocean proper East Subarctic Bering and Okhotsk Seas The modern environment and geological history of water ice sheds and marine basins have been studied for each region using different sedimentological and geochemical proxies Mainly results of the authors own studies are represented with special emphasis on glacial interglacial variability and land ocean interaction The book is aimed at sedimentologists quaternary and marine geologists paleoclimatologists and paleoceanographers as well as being of great interest to students in the related fields **Reconstructing Ocean History** Fatima Abrantes, Alan Mix, 2012-12-06 This

volume is one outcome of the 6th International Conference on Paleoceanography 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 Paleoceanographic 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

Climate and Ocean Dynamics at the Brazilian Margin - Past and Present Jacek Raddatz, Christoph Häggi, André Bahr, Cristiano M. Chiessi, 2022-11-07

Past Climate Variability in South America and Surrounding Regions Francoise Vimeux, Florence Sylvestre, Myriam Khodri, 2009-08-04 South America is a unique place where a number of past climate archives are available from tropical to high latitude regions It thus offers a unique opportunity to explore past climate variability along a latitudinal transect from the Equator to Polar regions and to study climate teleconnections Most climate records from tropical and subtropical South America for the past 20 000 years have been interpreted as local responses to shift in the mean position and intensity of the InterTropical Convergence Zone due to tropical and extratropical forcings or to changes in the South American Summer Monsoon Further South the role of the Southern Hemisphere westerly winds on global climate has been highly investigated with both paleodata and coupled climate models However the regional response over South America during the last 20 000 years is much more variable from place to place than previously thought The factors that govern the spatial patterns of variability on millennial scale resolution are still to be understood The question of past natural rates and ranges of climate conditions over South America is therefore of special relevance in this context since today millions of people live under climates where any changes in monsoon rainfall can lead to catastrophic consequences

Planktic Foraminifers in the Modern Ocean Ralf Schiebel, Christoph Hemleben, 2017-02-17 This book provides a comprehensive overview of the taxonomy biology sedimentation and carbonate geochemistry of modern species Students early career and advanced scientists alike will profit from a broad synthesis of the current understanding of planktic foraminifers as an ecological indicator biogeochemical factories and proxies in paleoceanography The classification of modern species is amply illustrated with electron and light microscope images of

morphotypes addresses the state of the art of molecular genetics of species and provides a detailed guide for any laboratory analyses The biology of planktic foraminifers is extensively discussed in chapters dedicated to the cellular ultrastructure nutrition symbionts reproduction ontogeny and test architecture Building on the biological prerequisites the distribution of planktic foraminifers is discussed at regional to global scale The geochemistry and sedimentation of tests are considered in relation to the ecology of the living animal In the final chapter which examines the most common methods in planktic foraminifer research hands on information is provided on sampling processing and analyzing samples in the laboratory as well as selected established methods for data interpretation The various topics discussed in this book are aimed at the application of planktic foraminifers as sensitive indicators of the changing climate and marine environment *Late Paleocene-early Eocene Climatic and Biotic Events in the Marine and Terrestrial Records* Marie-Pierre Aubry, Spencer G. Lucas, William A. Berggren, 1998 This book is a comprehensive collection of the best scholarship available on the transition between the Paleocene and Eocene epochs when the earth experienced the warmest climatic episode of the Cenozoic era These 21 contributions detail the major turnover among marine and terrestrial organisms that resulted from sudden global warming

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