

Orbital forcing and cyclic sequences

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ABSTRACT

Over periods of tens of thousands to millions of years, periodic changes of climate due to astronomically defined variations in the distribution of solar energy over the Earth are of influence upon the climate and upon oceanic circulation systems. This in turn may affect the production of carbonate and organic matter in marine surface waters and the oxidation and dissolution of these products in the deep ocean. Rhythmic variations in the flux of the resulting pelagic sediments are readily preserved in the deep oceanic record. However, similar reflections of regular, astronomically induced fluctuations of climate have been widely observed in other sedimentary environments, including glacial, lacustrine, fluvial, aeolian, deltaic, shallow marine, and submarine fan.

Periodic climatic and oceanographic changes and the resulting rhythmic sedimentation patterns can be preserved in the sedimentary record, providing that the sediment-supplying mechanisms (weathering and transport on the land, production of biogenic sediment in the ocean) as well as the relative sedimentary facies are sufficiently sensitive. Pelagic and lacustrine, and especially evaporitic, settings have proved to be sensitive to the influence of orbital forcing of climate. It is in such facies that, at the turn of the century, cyclicity in sedimentary sequences was recognized to be the result of orbital forcing (Gilbert, 1894; Bradley, 1929). Other sedimentary environments can be sensitive to such astronomically induced climatic variations in a similar way, but in many cases disturbing factors, such as variations in the rate of sedimentation and intermittent erosion, will obscure an otherwise clear record in the sedimentary column. Recognition of orbital cycles in environments other than the pelagic and lacustrine ones is of more recent date, but even coarse-grained alluvial fan and submarine fan environments can now be proven to bear the marks of orbitally induced climatic changes. Once demonstrated in the record, Milankovitch cycles have applications in assessing rates and durations of geological processes, and in the analysis of the palaeoclimate.

INTRODUCTION

This paper sets the scene of this book by reviewing the subject, and, without attempting to be comprehensive, at least indicating the range of studies that have been undertaken in recent years as part of the general revival of interest in the hypothesis that bears Milankovitch's name.

Astronomical forcing of climate and sedimentary facies depends upon the changing position of the Earth's axis in its varying path around the Sun (Fig. 1; Berger, 1977). Such variations depend on the interaction of gravitational forces in the rotating

Sun–Earth–Moon system, and on the influences of the other planets in our solar system. The *precession* (Fig. 1c) is the spinning of the Earth's axis due to the combined effects of the solar and lunar attraction on the equatorial bulge of the Earth. The absolute period of this cycle is of the order of 26 ka*. However, the elliptical orbit of the Earth also rotates, and the average main periods observed from the Earth are about 19 ka and 23 ka, with extremes of

* ka = 1000 years.

Orbital Forcing And Cyclic Sequences

**James L. Best, C. R. Fielding, Ian
Jarvis, Peter Mozley**



Orbital Forcing And Cyclic Sequences:

Orbital Forcing and Cyclic Sequences P. L. DeBoer, D. G. Smith, 2009-04-08 Classically orbital cycles have been recognized in pelagic and lacustrine sequences characterized by quiet sedimentation not disturbed by tectonics. However there is now increasing recognition that orbital cycles do influence climate and oceanography in general terms. There is also increasing acceptance of the possibility at least that the effect should be felt over large parts of the Earth's surface and that orbital cycles may well leave signs in other sedimentary environments that are commonly considered to be dominated by tectonics and eustasy. Containing thirty one papers from a symposium held at the International Sedimentological Congress in Nottingham in 1990 this volume spans a range of topics from the astronomical theory behind orbital forcing to field studies dealing with a broad range of sedimentary environments and to modelling and simulation. State of the art research papers. International expert authorship. The latest research in the highly topical subject of orbital forcing.

Orbital Forcing and Cyclic Sequences (Special Publication 19 of the IAS) P. L. DeBoer, D. G. Smith, 1994-03-30 Classically orbital cycles have been recognized in pelagic and lacustrine sequences characterized by quiet sedimentation not disturbed by tectonics. However there is now increasing recognition that orbital cycles do influence climate and oceanography in general terms. There is also increasing acceptance of the possibility at least that the effect should be felt over large parts of the Earth's surface and that orbital cycles may well leave signs in other sedimentary environments that are commonly considered to be dominated by tectonics and eustasy. Containing thirty one papers from a symposium held at the International Sedimentological Congress in Nottingham in 1990 this volume spans a range of topics from the astronomical theory behind orbital forcing to field studies dealing with a broad range of sedimentary environments and to modelling and simulation. State of the art research papers. International expert authorship. The latest research in the highly topical subject of orbital forcing.

The Geology of Stratigraphic Sequences Andrew D. Miall, 2013-06-29 Sequence stratigraphy represents a new paradigm in geology. The principal hypothesis is that stratigraphic successions may be subdivided into discrete sequences bounded by widespread unconformities. There are two parts to this hypothesis. First it suggests that the driving forces which generate sequences and their bounding unconformities also generate predictable three dimensional stratigraphies. In recent years stratigraphic research guided by sequence models has brought about fundamental improvements in our understanding of stratigraphic processes and the controls of basin architecture. Sequence models have provided a powerful framework for mapping and numerical modeling enabling the science of stratigraphy to advance with rapid strides. This research has demonstrated the importance of a wide range of processes for the generation of cyclic sequences including eustasy, tectonics and orbital forcing of climate change. The main objective of this book is to document the sequence record and to discuss our current state of knowledge about sequence generating processes.

Orbital Forcing and Cyclic Sequences International Association of Sedimentologists, 1994

Orbital Forcing Timescales and Cyclostratigraphy Michael Robert House, A. S. Gale, 1995

The metronomic variations of the Earth Moon system and of the Earth Sun orbital patterns produce gravitational and temperature effects that alter the physical environment on the Earth's surface. These give an interpenetrating effect of forcing cycles ranging from twice daily tides day night alternations various tidal patterns and the annual solar pattern. All of these have been used palaeontologically to give precision to short term age determination in the past. It is cycles of the Milankovitch band that are showing promise of enabling new practical timescales to be established for parts of the geological record. These depend on changes in the Earth Sun distance and changes in the tilt of the Earth's axis with respect to the Earth's orbit round the Sun. There is increasing evidence that small scale sedimentary rhythmic couplets may represent the effect of such changes. The disentangling of the interpenetrating cycles to produce an orbital forcing timescale is an exciting problem and challenge for palaeobiology and sedimentology. These should enable numerical dates to be given to bio and chronostratigraphical timescales and eventually enable many Earth processes to be analysed in real time. The papers in this volume represent major new developments in sedimentological palaeontological geochemical and stratigraphical research being undertaken in this field. Provided by publisher. **The Triassic Timescale** Spencer G. Lucas, 2010. The Mesozoic Era begins with the approximately 50 million year long Triassic Period a major juncture in Earth history when the vast Pangaeon supercontinent completed its assembly and began its fragmentation and the global biota diversified and modernized after the end Permian mass extinction the most extensive biotic decimation of the Phanerozoic. The temporal ordering of geological and biotic events during Triassic time thus is critical to the interpretation of some unique and pivotal events in Earth history. This temporal ordering is mostly based on the Triassic time scale which has been developed and refined for nearly two centuries. This book reviews the state of the art of the Triassic timescale and includes comprehensive analyses of Triassic radio isotopic ages magnetostratigraphy isotope based and cyclostratigraphic correlations and timescale relevant marine and non marine bio stratigraphy. **The Privileged Planet** Guillermo Gonzalez, Jay W. Richards, 2020-01-07. Earth The Final Frontier. Contrary to popular belief Earth is not an insignificant blip on the universe's radar. Our world proves anything but average in Guillermo Gonzalez and Jay W Richards The Privileged Planet How Our Place in the Cosmos Is Designed for Discovery. But what exactly does Earth bring to the table? How does it prove its worth among numerous planets and constellations in the vastness of the Milky Way? In The Privileged Planet you'll learn about the world's life sustaining capabilities water and its miraculous makeup protection by the planetary giants and how our planet came into existence in the first place. **Climates of the British Isles** Elaine Barrow, Mike Hulme, 2014-01-14. Our understanding of climate and its role in human affairs has changed markedly over recent years as have climate observation systems and modelling capabilities. Reliance on recent weather statistics to provide a guide for future climate is no longer viable. Evidence of human induced climate change has placed climate high on political and the media agendas. Climates of the British Isles provides a comprehensive account of what we know about climate and changing climates at the end of the twentieth century. Integrating

the historical and geographical dimensions of climate the crucial link between past and future climatic conditions is examined through the geographical lens of the British Isles Climates of past ages are reconstructed and full descriptions of present climate are illustrated by a wealth of graphs maps and images Important climate data sets are provided Marking the twenty fifth anniversary of the internationally acclaimed Climatic Research Unit this book distils much of the leading research of present and recent members of the unit and presents an authoritative accessible view of climatic change and prospects for the next millenium and beyond

Opening and Closure of the Neuquén Basin in the Southern Andes

Diego Kietzmann, Andrés Folguera, 2020-01-14 This book provides an overview of newly gathered material focusing on the opening and closure of The Neuquén Basin The Neuquén Basin contains the most important hydrocarbon reservoirs in Argentina and therefore is characterized by a profound knowledge of the sedimentation mechanisms and closure times During the last 10 years a considerable amount of new information has been produced that illustrates a complex evolution that involves more than one synrift stage during its evolution an aborted sag phase associated with the inception of a first foreland basin in late Early Cretaceous times two extensional destabilizations in the Late Cretaceous Paleocene and late Oligocene times and a Neogene magmatic expansion coetaneous to a last mountain building These processes have produced a polyphasic complex structure that exhumed the rich sedimentary record that characterizes the basin

Sedimentary Environments Harold G. Reading, 2013-07-03 Sedimentary Environments is one of the most distinguished and influential textbooks in the earth sciences published in the last 20 years The first and second editions both won universal praise and became classic works in sedimentology Since the publication of the last edition the study of sedimentary environments and facies has made great strides with major advances in facies modelling sequence stratigraphy and basin modelling The 3rd edition of this classic text will likely set the benchmark even higher and needless to say will continue being the textbook of choice for sedimentology students The latest edition of a classic text Incorporates all the latest advances in dynamic stratigraphy Will remain the textbook of choice for upper level undergraduate and graduate students in sedimentology

High-Resolution Approaches in Stratigraphic Paleontology P.J. Harries, 2008-07-30 This volume delves into a spectrum of theoretical as well as applied aspects of high resolution stratigraphic approaches in paleontology It explores how increasingly detailed knowledge of the fossil record can enhance our understanding of the evolution of life on Earth and also allows geoscientists to address a broad range of important evolutionary and environmental questions in this arena A zipped version of the program CONOP9 2007 along with read me files sample files and other documentation are available via a web site see below An earlier version of CONOP9 was initially supplied with High Resolution Approaches in Stratigraphic Paleontology PJ Harries editor and described in Chapter 13 of that volume This is an updated version of the program and the documentation supplied with this version supersedes the information supplied in that chapter To view the CONOP9 Programs click on the link CONOP9 Programs on the right side of this page under Related links

Sedimentology James L. Best, C. R.

Fielding, Ian Jarvis, Peter Mozley, 2009-05-11 Sedimentology has seen many significant advances and changes over the past 40 years ranging from facies modelling to sequence stratigraphy chemostratigraphy to basin analysis and the integration of studies of physical chemical and increasingly biological processes in the interpretation and prediction of sedimentary environments and products The subject is becoming ever more interdisciplinary and applied and now has far more links to other physical sciences Research and debate are continuing afresh as we move into this new interdisciplinary phase and promise many developments and increased uses of our subject Now seemed a good time to publish a series of review papers concerning some key current areas of research We hope that these papers will provide comprehensive starting points for those wishing to become acquainted with an area act as stimuli for debate and provide awareness and ideas for future research avenues No issue of this sort can of course ever be truly comprehensive in its coverage these reviews concern only selected snippets from the wide scope of sedimentology and each has of necessity been selective in its own area

Encyclopedia of Quaternary Science ,2006-11-24 The quaternary sciences constitute a dynamic multidisciplinary field of research that has been growing in scientific and societal importance in recent years This branch of the Earth sciences links ancient prehistory to modern environments Quaternary terrestrial sediments contain the fossil remains of existing species of flora and fauna and their immediate predecessors Quaternary science plays an integral part in such important issues for modern society as groundwater resources and contamination sea level change geologic hazards earthquakes volcanic eruptions tsunamis and soil erosion With over 360 articles and 2 600 pages many in full color the Encyclopedia of Quaternary Science provides broad ranging up to date articles on all of the major topics in the field Written by a team of leading experts and under the guidance of an international editorial board the articles are at a level that allows undergraduate students to understand the material while providing active researchers with the latest information in the field Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit www.info.sciencedirect.com 360 individual articles written by prominent international authorities encompassing all important aspects of quaternary science Each entry provides comprehensive in depth treatment of an overview topic and presented in a functional clear and uniform layout Reference section provides guidance for further research on the topic Article text supported by full color photos drawings tables and other visual material Writing level is suited to both the expert and non expert

Time-Series Analysis and Cyclostratigraphy Graham P. Weedon, 2005-09-15 An essential reference for researchers and suitable for senior undergraduate and graduate courses in environmental science palaeoceanography and geology

Seismic Stratigraphy and Depositional Facies Models P.C.H. Veeken, 2013-11-14 The 2e of Seismic Stratigraphy and Depositional Facies Models summarizes basic seismic interpretation techniques and demonstrates the benefits of integrated reservoir studies for hydrocarbon exploration Topics are presented from a practical

point of view and are supported by well illustrated case histories The reader is taken from a basic level to more advanced study techniques The presented modern geophysical techniques allow more accurate prediction of the changes in subsurface geology Dynamics of sedimentary environments are discussed their relation to global controlling factors and a link is made to high resolution sequence stratigraphy The interest in seismic stratigraphic techniques to interpret reflection datasets is well established The advent of sophisticated subsurface reservoir studies and 4D monitoring for optimizing the hydrocarbon production in existing fields demonstrate the importance of the 3D seismic methodology The added value of reflection seismics to the petroleum industry has clearly been proven over the last few decades Seismic profiles and 3D cubes form a vast and robust data source to unravel the structure of the subsurface Larger offsets and velocity anisotropy effects give access to more details on reservoir flow properties like fracture density porosity and permeability distribution Elastic inversion and modeling may tell something about the change in petrophysical parameters Seismic investigations provide a vital tool for the delineation of subtle hydrocarbon traps and they are the basis for understanding the regional basin framework and the stratigraphic subdivision Seismic stratigraphy combines two very different scales of observation the seismic and well control The systematic approach applied in seismic stratigraphy explains why many workers are using the principles to evaluate their seismic observations Discusses the link between seismic stratigraphic principles and sequence stratigraphy Provides techniques for seismic reservoir characterization as well as well control Analyzes inversion AVO and seismic attributes

Cretaceous Oceanic Red Beds Xiumian Hu,2009

The Geologic Time Scale 2012 F M

Gradstein,2012-08-14 The Geologic Time Scale 2012 winner of a 2012 PROSE Award Honorable Mention for Best Multi volume Reference in Science from the Association of American Publishers is the framework for deciphering the history of our planet Earth The authors have been at the forefront of chronostratigraphic research and initiatives to create an international geologic time scale for many years and the charts in this book present the most up to date international standard as ratified by the International Commission on Stratigraphy and the International Union of Geological Sciences This 2012 geologic time scale is an enhanced improved and expanded version of the GTS2004 including chapters on planetary scales the Cryogenian Ediacaran periods systems a prehistory scale of human development a survey of sequence stratigraphy and an extensive compilation of stable isotope chemostratigraphy This book is an essential reference for all geoscientists including researchers students and petroleum and mining professionals The presentation is non technical and illustrated with numerous colour charts maps and photographs The book also includes a detachable wall chart of the complete time scale for use as a handy reference in the office laboratory or field The most detailed international geologic time scale available that contextualizes information in one single reference for quick desktop access Gives insights in the construction strengths and limitations of the geological time scale that greatly enhances its function and its utility Aids understanding by combining with the mathematical and statistical methods to scaled composites of global succession of events Meets the needs of a range of

users at various points in the workflow researchers extracting linear time from rock records students recognizing the geologic stage by their content

Physical Geography: The Key Concepts Richard John Huggett, 2009-06-26 Physical Geography The Key Concepts is a thought provoking and up to date introduction to the central ideas and debates within the field It provides extended definitions of terms that are fundamental to physical geography and its many branches covering topics such as biogeography ecology climatology meteorology geomorphology hydrology pedology Complete with informative tables diagrams and suggestions for further reading this is a highly accessible guide for those studying physical geography and related courses

Geological Prior Information Andrew Curtis, Rachel Wood, 2004 Geological prior information represents a new and emerging field within the geosciences Prior information is the term used to describe previously existing knowledge that can be brought to bear on a new problem This volume describes a range of methods that can be used to find solutions to practical and theoretical problems using geological prior information and the nature of geological information that can be so employed

Environmental Change Richard Huggett, 2003-09-02 Environmental Change explores the nature causes rates and directions of environmental change throughout earth history Huggett introduces the interdependent parts of the natural environment cosmic ecological geological and the dynamic nature of the environmental system Integrating a wealth of examples and illustrations from around the world the book examines evidence and causes of change in life climate air and water soils sediments and landforms and the impacts of human environment interaction

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