

Orbital forcing and cyclic sequences

P. L. DE BOER* and D. G. SMITH†

* *Comparative Sedimentology Division, Institute of Earth Sciences, P.O. Box 80.021,
NL-3508 TA Utrecht, The Netherlands; and*

† *Petroconsultants (UK) Ltd, Europa House, 266 Upper Richmond Road,
Putney, London SW15 6TQ, UK*

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.

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Xander Dagmar Meijer



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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. **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 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

Microfacies of Carbonate Rocks Erik Flügel, 2010-07-08 This unparalleled reference synthesizes the methods used in microfacies analysis and details the potential of microfacies in evaluating depositional environments and diagenetic history and in particular the application of microfacies data in the study of carbonate hydrocarbon reservoirs and the provenance of archaeological materials Nearly 230 instructive plates 30 in color showing thin section photographs with detailed explanations form a central part of the content Helpful teaching learning aids include detailed captions for hundreds of microphotographs boxed summaries of technical terms many case studies guidelines for the determination and evaluation of microfacies criteria self testing exercises for recognition and characterization skills and more **Petroleum Geology of the Southern North Sea** Karen Ziegler, Stephen R. Daines, P. Turner, Peter Turner, 1997 *The Geology of Stratigraphic Sequences* Andrew D. Miall, 2010-06-09 It has been more than a decade since the appearance of the First Edition of this book Much progress has been made but some controversies remain The original ideas of Sloss and of Vail building on the early work of Blackwelder Grabau Ulrich Levorsen and others that the stratigraphic record could be subdivided into sequences and that these sequences store essential information about basin forming and subsidence processes remains as powerful an idea as when it was first formulated The definition and mapping of sequences has become a standard part of the basin analysis process The main purpose of this book remains the same as it was for the first edition that is to situate sequences within the broader context of geological processes and to answer the question why do sequences form Geoscientists might thereby be better equipped to extract the maximum information from the record of sequences in a given basin or region Tectonic climatic and other mechanisms are the generating mechanisms for sequences ranging over a wide range of times scales from hundreds of millions of years to the high frequency sequences formed by cyclic processes lasting a few tens of thousands of years Three-dimensional Sequence Stratigraphy Offshore Louisiana, Gulf of Mexico (West Cameron 3D Seismic Data) Benoît Reymond, 1994 *These Biologie M decine* 1994 *Non-biostratigraphical Methods of Dating and*

Correlation Robert E. Dunay, E. A. Hailwood, 1995 Significant problems have arisen in the past with dating and correlating stratigraphical sequences impoverished in or barren of fossil remains leaving major questions in stratigraphy for periods dominated by non marine formations These problems are exacerbated in dating and correlating barren sequences encountered in offshore exploration and appraisal drilling where the potential of alternative techniques becomes economically extremely important Brought together in this volume is a wide range of diverse techniques and disciplines broadly grouped into mineralogical chemical isotopic luminescence and cyclicity analyses to explore their potential in solving difficulties in stratigraphy The intention is also to introduce these techniques already familiar to specialist researchers to a wider audience of petroleum geologist who may find them useful in resolving their specific correlation problems The book will be of particular interest to hydrocarbon exploration and production geologists Provided by publisher Journal of Geoscience Education, 1997

Numerical Experiments in Stratigraphy John Warvelle Harbaugh, 1999 This volume summarizes the status of computer modelling of sedimentary and stratigraphic processes and demonstrates the potential of these studies The papers in the volume collectively illustrate the utility of stratigraphic modelling for incorporating and synthesizing geologic geophysical and petrophysical data for increasing understanding of sedimentary and stratigraphic systems and the distribution of natural resources Climate Stratigraphy Swie-Djin Nio, 2005* Wangaloa and Abbotsford Formations Jon K. Lindqvist, 1995

Bulletin of the Geological Research and Development Centre Pusat Penelitian dan Pengembangan Geologi (Indonesia), 1994 **Actas de las V Jornadas Zaragoza-Pau de Matemática Aplicada y Estadística** Monique Madaune-Tort, Gérard Sanz, 1999 *Quantitative Three-dimensional Modelling of Quaternary Passive Continental Margins* Xander Dagmar Meijer, 2002 **Journal of Sedimentary Petrology**, 1993

Facies Analysis and Physical Stratigraphy of the Ilerdian in the Eastern Tremp-Graus Basin (south-central Pyrenees, Spain) Alexander Conrad Waehry, 1999 Les résultats de cette étude trouvent leur application dans la modélisation paléoclimatologique et la prospection ou la protection des ressources naturelles *Platform Carbonates in the Southern Midcontinent, 1996 Symposium* Kenneth Sutherland Johnson, 2000

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