Sequence Stratigraphy Of Siliciclastic Systems The

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NATHEN GOODMAN

Siliciclastic Sequence Stratigraphy SEPM

Soc for Sed Geology
A comprehensive and richly illustrated overview of the Gulf of Mexico Basin, including its reservoirs, source rocks, tectonics and evolution.
Stratigraphic Systems John Wiley & Sons
Suitable as a primary text for undergraduate courses in sedimentology and stratigraphy."--BOOK JACKET.
Sequence Stratigraphy of Siliciclastic Systems SEPM Soc for Sed Geology
Reservoir management is an important topic in the oil industry today. Conferences, forums, short courses, and technical papers, written and attended by engineers, geologists, geophysicists, petrophysicists, and managers discuss various aspects of reservoir management. A critical component of reservoir management is the accurate characterization of the hydrocarbon asset, called reservoir characterization. The topic of this course is the process of sequence-stratigraphic interpretation and characterization of carbonate reservoirs. Because of the overwhelming mass of information most reservoir geoscientists keep up with either some aspects of sequence-stratigraphy, or some aspects of reservoir characterization, but typically not both. The authors believe that the two disciplines are so intimately related that the sequence framework should be considered a critical piece of the integrated puzzle.
High Resolution Sequence Stratigraphy St. John's Nfld. : Geological Association of Canada
"This memoir grew out of the 2 1/2-day

symposium, 'Variations in Depositional Systems Within a Sequence Stratigraphic Framework: Applications to Exploration,' that we organized at the 1991 AAPG annual meeting in Dallas, Texas."--Preface.

Sequence Stratigraphy of Foreland Basin Deposits Springer Science & Business Media

A lavishly illustrated textbook on sequence stratigraphy, supported by numerous learning features and supplementary website.

Fluvial Depositional Systems John Wiley & Sons

Siliciclastic shallow-marine deposits record the interface between land and sea, and its response to a variety of forcing mechanisms: physical process regime, the internal dynamics of coastal and shelfal depositional systems, relative sea level, sediment flux, tectonic setting, and climate. These deposits have long been the subject of conceptual stratigraphic models that seek to explain the interplay between these various forcing mechanisms, and their preservation in the stratigraphic record. This volume arose from an SEPM research conference on shoreline-shelf stratigraphy that was held in Grand Junction, Colorado, on August 24-28, 2004. The aim of the resulting volume is to highlight the development over the last 15 years of the stratigraphic concepts and models that are used to interpret siliciclastic marginal-marine, shallow-marine, and shelf deposits.

Advances in Sequence Stratigraphy John Wiley & Sons

Much has been written and debated about the various methodologies applied to modern stratigraphic analysis and the ever increasing complexity of terminologies. However, there exist numerous stratigraphic techniques that are reliant upon precise, quantitative, reproducible data, rather than qualitative interpretive stratigraphic methodologies. Such stratigraphic techniques are applied in an entirely pragmatic non-biased manner within the petroleum industry to provide enhanced stratigraphic understanding of petroleum systems. The petroleum industry is a key driver behind the development of new stratigraphic techniques and a major provider of new stratigraphic data, which has resulted in several of these new techniques having been developed as a requirement to the industry. Furthermore, because techniques, such as isotope chemostratigraphy, elemental chemostratigraphy, magnetic susceptibility stratigraphy, numerical biostratigraphy and heavy mineral stratigraphy are based around precise, quantified and reproducible analytical data, they provide an independent means to test the more interpretive stratigraphic methodologies. This volume attempts an overview of stratigraphic methodologies, but largely focuses on data-generative stratigraphic techniques such as chemostratigraphy, magnetic susceptibility stratigraphy, numerical biostratigraphy and heavy mineral stratigraphy. Where appropriate, each paper discusses data generation methods including sample preparation

and analytical methods as well outlining data interpretation methods. This is followed by case histories that demonstrate how those data are used to resolve stratigraphic problems, commonly using material derived from petroleum basins around the World.

Siliciclastic Sequence Stratigraphy Springer Science & Business Media

Sequence stratigraphy represents a new paradigm in geology. The principal hypothesis is that stratigraphie 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 predietable three-dimensional stratigraphies. In re cent years stratigraphie research guided by sequence models has brought about fundamental im provements in our understanding of stratigraphie processes and the controls of basin architecture. Sequence models have provided a powerful framework for mapping and numerieal 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 cyclie 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.

Cratonic Sequence Stratigraphy AAPG

"The stratigraphic concept of a depositional sequence was introduced to the scientific literature by Exxon Production Research Company (EPRco) in the late 70s, building on the shoulders of giants like Chamberlain, Sloss and Wheeler. Since then, several papers compared and contrasted the original Exxon (and later, ExxonMobil) sequence] stratigraphic school with other approaches to subdivide the geologic record, as well as, debating the ExxonMobil model validity and impact on the community. At its core, the Exxon] Mobil gmodel h is really a stratigraphic interpretation method, which was never explicitly documented in the literature. The objective of this book is to present the ExxonMobil sequence stratigraphic method in its current form in an attempt to clarify its usage and application in diverse geologic data and depositional environments. This publication is the result of more than 3 decades of sequence stratigraphy research and application at EPRco and at the ExxonMobil Upstream Research Company (URC). The objective is to emphasize the most important aspects of Sequence Stratigraphy . a method to guide geologic interpretation of stratigraphic data (seismic profiles, welllogs, cores and outcrops) across scales (from local to regional and global) and depositional environments (from continental to deep marine)." -- from the SEPM website.

The Gulf of Mexico Sedimentary Basin

SEPM Soc for Sed Geology

The stratigraphic concept of a

depositional sequence was introduced to the scientific literature by Peter Vail and his colleagues in the late 70s, building on the shoulders of giants like Chamberlain, Sloss and Wheeler. Since then, several papers compared and contrasted the original sequence-stratigraphic school published in the AAPG Memoir 26 in 1977 with other approaches to subdivide the geologic record, as well as, debating the model validity and impact on the community. At its core, the "model" is really a stratigraphic interpretation method, which was never explicitly documented in the literature. The objective of this book is to present the sequence stratigraphic method in its current form in an attempt to clarify its usage and application in diverse geologic data and depositional environments. This publication is the result of more than 3 decades of sequence stratigraphy research and application. The objective is to emphasize the most important aspects of Sequence Stratigraphy-a method to guide geologic interpretation of stratigraphic data (seismic profiles, well-logs, cores and outcrops) across scales (from local to regional and global) and depositional environments (from continental to deep marine). This book in an 11 x 17 format is designed to be easily used for teaching or self-learning experiences. In the second edition of the "Atlas", the book was divided in 2 volumes-Exercises and Solutions-to make it easier to use the publication as text book for sequence stratigraphy courses in universities. Also, a new

exercise was added and several of the existing exercises went through major updating and editing.

Sequence Stratigraphy of Siliciclastic Systems John Wiley & Sons

Sedimentology and stratigraphy are neighbors yet distinctly separate entities within the earth sciences. Sedimentology searches for the common traits of sedimentary rocks regardless of age as it reconstructs environments and processes of deposition and erosion from the sediment record. Stratigraphy, by contrast, concentrates on changes with time, on measuring time and correlating coeval events. Sequence stratigraphy straddles the boundary between the two fields. This book, dedicated to carbonate rocks, approaches sequence stratigraphy from its sedimentologic background. This book attempts to communicate by combining different specialities and different lines of reasoning, and by searching for principles underlying the bewildering diversity of carbonate rocks. It provides enough general background, in introductory chapters and appendices, to be easily digestible for sedimentologists and stratigraphers as well as earth scientists at large.

Siliciclastic Sequence Stratigraphy SEPM Soc for Sed Geology

Sequence stratigraphy is a powerful tool for the prediction of depositional porosity and permeability, but does not account for the impact of diagenesis on these reservoir parameters. Therefore, integrating diagenesis and sequence stratigraphy can provide a better way of predicting reservoir quality. This special

publication consists of 19 papers (reviews and case studies) exploring different aspects of the integration of diagenesis and sequence stratigraphy in carbonate, siliciclastic, and mixed carbonate-siliciclastic successions from various geological settings. This book will be of interest to sedimentary petrologists aiming to understand the distribution of diagenesis in siliciclastic and carbonate successions, to sequence stratigraphers who can use diagenetic features to recognize and verify interpreted key stratigraphic surfaces, and to petroleum geologists who wish to develop more realistic conceptual models for the spatial and temporal distribution of reservoir quality. This book is part of the International Association of Sedimentologists (IAS) Special Publications. The Special Publications from the IAS are a set of thematic volumes edited by specialists on subjects of central interest to sedimentologists. Papers are reviewed and printed to the same high standards as those published in the journal Sedimentology and several of these volumes have become standard works of reference.

Siliciclastic Sequence Stratigraphy in Well Logs, Cores, and Outcrops

Newnes

Sequence stratigraphy is a powerful tool for the prediction of depositional porosity and permeability, but does not account for the impact of diagenesis on these reservoir parameters. Therefore, integrating diagenesis and sequence stratigraphy can provide a better way of

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Sequence Stratigraphy and Depositional Response to Eustatic, Tectonic and Climatic Forcing Cambridge University Press

"The stratigraphic concept of a depositional sequence was introduced to the scientific literature by Exxon Production Research Company (EPRco) in the late 70s, building on the shoulders

of giants like Chamberlain, Sloss and Wheeler. Since then, several papers compared and contrasted the original Exxon (and later, ExxonMobil) sequence] stratigraphic school with other approaches to subdivide the geologic record, as well as, debating the ExxonMobil model validity and impact on the community. At its core, the Exxon] Mobil gmodel h is really a stratigraphic interpretation method, which was never explicitly documented in the literature. The objective of this book is to present the ExxonMobil sequence stratigraphic method in its current form in an attempt to clarify its usage and application in diverse geologic data and depositional environments. This publication is the result of more than 3 decades of sequence stratigraphy research and application at EPRco and at the ExxonMobil Upstream Research Company (URC). The objective is to emphasize the most important aspects of Sequence Stratigraphy . a method to guide geologic interpretation of stratigraphic data (seismic profiles, welllogs, cores and outcrops) across scales (from local to regional and global) and depositional environments (from continental to deep marine)." -- from the SEPM website.

Sequence Stratigraphy of Siliciclastic Systems SEPM Soc for Sed Geology Hardcover plus Foldouts

Recent Advances in Models of Siliciclastic Shallow-marine Stratigraphy Springer Science & Business Media

This fully revised and updated edition

introduces the reader to sedimentology and stratigraphic principles, and provides tools for the interpretation of sediments and sedimentary rocks. The processes of formation, transport and deposition of sediment are considered and then applied to develop conceptual models for the full range of sedimentary environments, from deserts to deep seas and reefs to rivers. Different approaches to using stratigraphic principles to date and correlate strata are also considered, in order to provide a comprehensive introduction to all aspects of sedimentology and stratigraphy. The text and figures are designed to be accessible to anyone completely new to the subject, and all of the illustrative material is provided in an accompanying CD-ROM. High-resolution versions of these images can also be downloaded from the companion website for this book at: www.wiley.com/go/nicholssedimentology .

Sequence Stratigraphy and Facies Associations Academic Press

This book starts with a review of sedimentologic principles governing the large scale anatomy of reefs and platforms. It then looks at sequence and systems tracts from a sedimentologic point of view, assess the differences between siliciclastics and carbonates in their response to sea level, evaluates processes that compete with sea level for control on carbonate sequence and finally presents a set of guidelines for application of sequence stratigraphy to reefs and carbonate platforms.

Sedimentology and Stratigraphy John Wiley & Sons
Sequence stratigraphy has experienced a virtual explosion of applications in recent years. During that time, the concepts upon which sequence stratigraphy is based have been evolving to conform to new observations as well as new types of data. This volume summarizes the current status of this discipline as it applies to siliciclastic deposits. The emphasis in this volume is on sequence stratigraphy as an "approach" to geological analysis, rather than as a model to which all data sets must conform. The expression of sequence architecture and the nature of bounding surfaces is illustrated through examples and applications drawn from a range of data types, including outcrop, core, wireline log, and 3-D seismic data. In addition, sequence expression also is illustrated using examples of modern landforms.
Sequence Stratigraphy of Clastic Systems AAPG
The innovation and refinement of the techniques and concepts of sequence stratigraphy has been one of the most exciting and profound developments in geology over the past thirty years. Seismic stratigraphy has now become one of the standard tools of the geoscientist, and there is a pressing need for an introductory text on sequence stratigraphy. This new book sets out to define and explain the concepts, principles and applications of this remarkably influential approach to the study of sedimentary strata. The

authors take a rigorous objective stance in evaluating the techniques and interpretation of sequence stratigraphy - basing the text on an internal training course developed by British Petroleum (BP). A new text on this increasingly important field A practical guide based on the experience of practising sequence stratigraphers Based on a highly successful BP training course
Sequence Stratigraphy John Wiley & Sons
This project was designed to build a documented chronostratigraphic and outcrop record of depositional sequences calibrated across European basins. Data on standard stages, magnetostratigraphy, and geochronology integrated with high resolution biostratigraphy calibrate the stratigraphic position of depositional sequence boundaries. Higher order eustatic sequences show a significant increase in the number identified. A good portion of the European Mesozoic and Cenozoic succession is set in the sequence stratigraphic context with a stratigraphic record of its bonding surfaces.