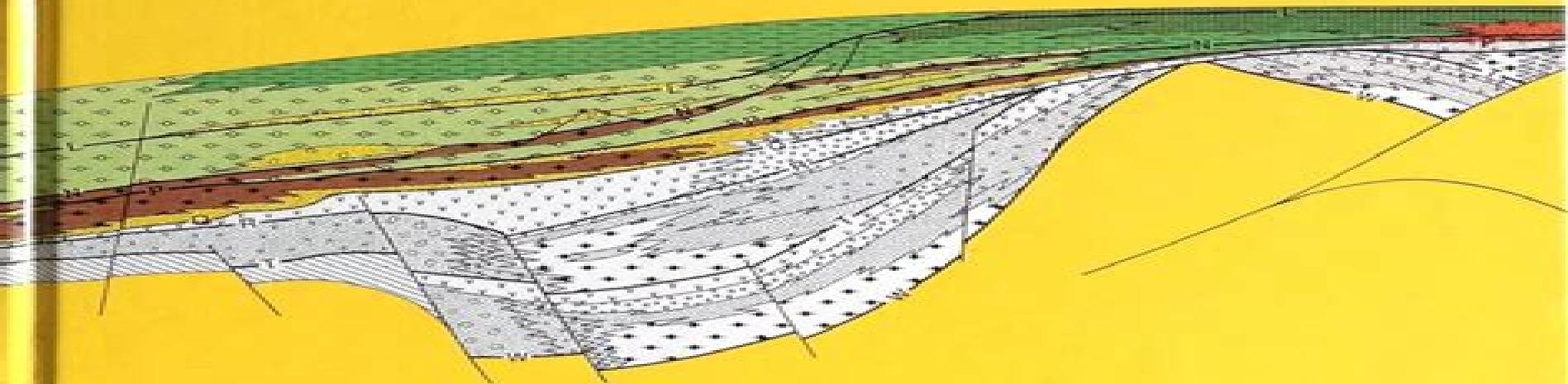


Tectonics and Seismic Sequence Stratigraphy

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Tectonics Seismic Sequence Stratigraphy

B.U. Haq



Tectonics Seismic Sequence Stratigraphy:

Tectonics and Seismic Sequence Stratigraphy G. D. Williams, 1993 **Tectonics and Seismic Sequence Stratigraphy**, 1991 Sequence Stratigraphy and Depositional Response to Eustatic, Tectonic and Climatic Forcing B.U. Haq, 1995-11-30

Sequence stratigraphy has advanced considerably since the early applications of the concepts on seismic data. It attempts to discern the migration of facies resulting from changes in a combination of factors such as sea level, tectonics, climate, and sediment flux, and integrates it with a meaningful chronostratigraphy. The stratigraphic record is envisioned as a framework of repetitive packages of genetically related strata formed in response to the shifting base level in which the locus of deposition of various sediment types may be anticipated. This attribute is rapidly promoting sequence stratigraphy as an indispensable tool for prediction of facies in exploration and production geology. In hydrocarbon exploration, the application of sequence stratigraphy has ranged from anticipating reservoir and source rock distribution to predicting carbonate diagenesis, porosity, and permeability. The capability to anticipate vertical and lateral distribution of facies and reservoir sands in the basinal shoreface, incised valley fill, and regressive settings alone has been a great asset for exploration. In frontier areas where data are often limited to seismic lines, sequence stratigraphic methodology has helped determine the timing and types of unconformities and anticipate transgressive and regressive prone intervals. In production, it is aiding in field development by providing improved source and seal predictions for secondary oil recovery. A recognition of stratigraphic causes of poor recovery through improved understanding of internal stratal architecture can lead to new well recompletions and enhanced exploitation in existing fields. The sequence stratigraphic discipline is in a state of rapid expansion.

Tracing Tectonic Deformation Using the Sedimentary Record Tom McCann, Aline Saintot, 2003. The study of sediments and sedimentary basins in terms of their tectonic environment requires a multidisciplinary approach and has increasingly drawn both techniques and objectives from fields outside sedimentology. Studies presented in this volume range across a wide spectrum from the analysis of sedimentary sequence architecture at basin scale down to the chemical properties of individual grains and include studies from a range of tectonic settings.

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

Generation, Accumulation and Production of Europe's Hydrocarbons III Anthony M. Spencer, 2012-12-06 The 30 contributions of this volume cover the main European regions for oil and gas exploration the North Sea and adjacent areas the central and eastern Mediterranean including offshore Albania central and eastern Europe including Poland Hungary the Russian platform and offshore Bulgaria Main topics are investigations to sequence stratigraphy 3D quantitative restoration and balanced structural sections using the LOCACE equipment Additional studies deal with a Monte Carlo method for generating models of porosity and permeability with facies characterization using wireline logs or with petrographic applications of image analysis As further reading this volume is of significant interest for researchers in oil and gas industries but also for scientists at universities

Studies of Cenozoic Continental Tectonics Uwe Strecker, 1996

Principles of Practical Tectonic Analysis of Cratonic Regions Henry Lyatsky, Gerald M. Friedman, Vadim B. Lyatsky, 1999-02-18 Steep crystalline basement faults commonly indicated by potential field anomalies played a crucial role in evolution of continental cratonic platforms In the Phanerozoic Western Canada Sedimentary Province history of crustal block movements and warps is reconstructed from the distribution of depocenters lithofacies and structures in structural formational tages in sedimentary cover Each tage is a rock succession formed during a particular tectonic stage regional tectonic restructuring closes each stage and the next stage represents a new tectonic regime Practical tectonic analysis based on observation of rocks and geophysical data is a reliable guide for deciphering a region s geologic history and for resource exploration

Sedimentation and Tectonics of Western North America , 1989

Foreland Sedimentation in Himalayan Tectonic Regime V. Raiverman, 2002 With reference to India

Proceedings of the Annual Convention - Indonesian Petroleum Association Indonesian Petroleum Association, 1996

Geomorphology and Global Tectonics Michael A. Summerfield, 2000-04-07 Presents the state of current research on the inter relationships between global tectonics and macroscale landscape development across a wide range of topics and study areas The last 10 years have witnessed a remarkable growth in interest in the relationships between global tectonics and the Earth s maroscale topographic features This new research emphasis has emerged from a range of practitioners within the earth sciences including geophysicists concerned with what can be learnt about tectonic processes from their topographic effects geologists interested in the factors controlling erosion and the supply of material to sedimentary basins and geomorphologists wanting to understand the role of tectonics in landscape evolution Various technical developments and new sources of data have also contributed to these developments such as the construction of coupled tectonic surface process numerical models of large scale landscape development the creation of large area high resolution digital elevation models and the derivation of long term denudational records using methods such as thermochronology This book presents an overview of innovative research in the area and provides directions for future research Each chapter provides up to date surveys of key research questions

reports on important current work and highlights outstanding research issues It will be invaluable to those across the earth science community who are interested in the relationships between tectonics and geography **The Tectonics, Sedimentation and Palaeoceanography of the North Atlantic Region** R. A. Scrutton, Geological Society of London, 1995

Submarine Slope Systems David Mark Hodgson, Stephen S. Flint, 2005 Submarine slopes provide the critical link between shallow water and deep water sedimentary environments They accumulate a sensitive record of sediment supply accommodation creation destruction and tectonic processes during basin filling There is a complex stratigraphic response to the interplay between parameters that control the evolution of submarine slope systems e g slope gradient topographic complexity sediment flux and calibre base level change tectonic setting and post depositional sediment remobilization processes The increased understanding of submarine slope systems has been driven partly by the discovery of large hydrocarbon fields in morphologically complex slope settings such as the Gulf of Mexico and offshore West Africa and has led to detailed case studies and improved generic models for their evolution This volume brings together research papers from modern outcrop and subsurface settings to highlight these recent advances in understanding of the stratigraphic evolution of submarine slope systems *Mesozoic and Cenozoic Sequence Stratigraphy of European Basins* Pierre Charles de Graciansky, 1998 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

Siliciclastic Sequence Stratigraphy Henry W. Posamentier, George P. Allen, 1999 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 *Petroleum Abstracts*, 1997 *Tectonic Controls on the Late Cretaceous to Cenozoic Sedimentary Fill of the Middle Magdalena Valley Basin, Eastern Cordillera and Llanos Basin, Colombia* Elías Gómez Domínguez, 2001 *Late Proterozoic and Cambrian Tectonics, Sedimentation, and Record of Metazoan Radiation in the Western United States* Nickolas Christie-Blick, Marjorie Levy, 1989 Published by the American Geophysical Union as part of the Field Trip Guidebooks Series Volume 331 The articles and guide which follows them have been prepared for an eight day field

excursion organized in conjunction with the 28th International Geological Congress in Washington D C in July 1989 The purpose of the excursion is to review the results of recent research concerning the tectonic stratigraphic and sedimentological development of the western United States in Late Proterozoic and Cambrian time and the paleoenvironmental context of the latest Proterozoic and Early Cambrian metazoan radiation event The location and tectonic setting of stops are shown in the Frontispiece Our studies build on those of many other geologists whose contributions are acknowledged in the list of references In particular we draw attention to the fundamental contributions over many years of C A Nelson J H Stewart and L A Wright and the late M D Crittenden Jr and S S Oriel Without the basic observations and insights of these individuals it is unlikely that the present level of understanding would have been achieved At the same time we recognize that interpretations and ideas summarized here are subject to revision as research continues

Petroleum Geology of Taiwan ,1996

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