

STRATIGRAPHY		THICKNESS	LITHOLOGY	DESCRIPTION AND DEPOSITIONAL FACIES	SEQUENCE STRATIGRAPHY
TIME	UNIT				
CRITACEOUS	MARDEN GROUP				
MIDDLE TO LATE ORDOVICIAN (470-445 Ma)				DOLOMITIC LIMESTONE Soil Profile SHALE: Dark gray, partly fissile, partly massive, includes pebbles and large boulders (glacio-marine facies) Erosional Surface SANDSTONE: Medium-thin bedded, fine-medium grained, well-sorted (glacio-fluvial facies) PEBBLY SANDSTONE: Thick bedded, poorly-sorted including polished and striated pebbles (glacial facies) Erosional Surface SANDSTONE: horizontal-planar bedded, moderately sorted, medium-fine grained, poorly developed-cross-bedding (glacio-fluvial facies) CONGLOMERATIC SANDSTONE: Massive-thickly bedded, coarse-very coarse-grained, very poorly sorted. Pebbles are polished and striated. Base of glacial valley-fill sequence. Valley extends in N45E	CRETACEOUS UNCONFORMITY SURFACE Glacio-marine Sequence DEGLACIATION Vertically stacked glacial (glacial advance) and glacio-fluvial (glacial retreat facies) GLACIALLY-FORMED UNCONFORMITY SURFACE (445 Ma)
				INTERBEDDED SANDSTONE AND SHALE SEQUENCE: Shale is light gray and silty, partly interlaminated with siltstone. Sandstone is thin-medium bedded, fine-medium grained, HCS, wave rippled, very fossiliferous. This sequence was deposited in offshore marine environment and consists of off-shore and lower shoreface facies	YURTERI FORMATION MFS 020 (470 Ma)
EARLY ORDOVICIAN	KONUR FM			SANDSTONE: Fine-to coarse-grained, coarsening and thickening upward deltaic sequence (outer and inner mouth bar facies)	

Sedimentology Sequence Stratigraphy Of

**Indranil Banerjee, Wolfgang D.
Kalkreuth, Geological Survey of Canada**

Sedimentology Sequence Stratigraphy Of:

Principles of Sequence Stratigraphy Octavian Catuneanu, 2022-07-22 *Principles of Sequence Stratigraphy* Second Edition presents principles to practical workflow that guide applications in a consistent manner that is independent of model geological setting and the types and resolution of the data available The book explains the points of agreement and difference between the various approaches to sequence stratigraphy while also defining the common ground that affords the standard application of the method This enables the practitioner to avoid nomenclatural and methodological confusions and apply sequence stratigraphy The text is richly illustrated with hundreds of full color diagrams and examples of outcrop borehole and seismic data The book's balanced approach helps students and professionals acquire a sound understanding of the concepts and methodology It will appeal to geologists geophysicists and engineers with interest in basin analysis stratigraphy and sedimentology as well as in all economic applications that concern the exploration and production of natural resources including water hydrocarbons coal and sediment hosted mineral deposits Updates the award winning first edition in all aspects of sequence stratigraphy from the underlying theory to the practical applications Presents the standard approach to sequence stratigraphic methodology nomenclature and classification the role of modeling in sequence stratigraphy and the difference between modeling and methodology Discusses the roles of scale and stratigraphic resolution in sequence stratigraphy and the workflow that affords a consistent application of the method irrespective of the types of data available Describes the three dimensional nature of the stratigraphic architecture and the variability of stratigraphic sequences with the tectonic setting depositional setting and the climatic regime Illustrates all concepts with high quality full color diagrams outcrop photographs and subsurface well data and seismic images

Sedimentology and Sequence Stratigraphy of Reefs and Carbonate Platforms Wolfgang Schlager, *Carbonate Sedimentology and Sequence Stratigraphy* Wolfgang Schlager, 2005 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

Sedimentology, Sequence Stratigraphy, Organic Petrology, Geochemistry, and Palynology of Mannville Group Coals in South-central Alberta Indranil Banerjee, Wolfgang D. Kalkreuth, Geological Survey of Canada, 2002 In this study the sequence stratigraphic analysis of some coal seams in the Lower Cretaceous Mannville Group of Alberta is presented within a

hierarchical framework of three orders of depositional sequences The analysis is based on an integrated database of lithostratigraphy sedimentology palynology organic petrology and geochemistry A unique aspect of this study is an emphasis on the following key stratigraphic features of coal seams in analyzing their sequence stratigraphic relations patterns of coal seam splits and their relation to transgressive characterizing the transgressive or regressive natures of coal seams using typical signatures in vertical changes in petrological geochemical and palynological parameters and recognizing multiple transgressive regressive cycles and subtle unconformities within a thick regionally extensive coal seam

Sequence Stratigraphy and Depositional Response to Eustatic, Tectonic and Climatic Forcing B.U. Haq, 2013-01-11

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 of 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

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

Sedimentology and Sequence Stratigraphy of Reefs and Carbonate Platforms Wolfgang Schlager,1992 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

Carbonate Sedimentology and Sequence Stratigraphy Wolfgang Schlager,2005 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

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

Sedimentology and sequence stratigraphy of reefs and carbonate platforms Wolfgang Schlager,1991

Sedimentology Sequence Stratigraphy Of Book Review: Unveiling the Power of Words

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