

# Sequence Stratigraphy Of Siliciclastic Systems The Exxonmobil Methodology Concepts In Sedimentology And Paleontology Csp Series

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## **Sequence Stratigraphy of Siliciclastic Systems** - Vitor Abreu 2010

"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.

**International Stratigraphic Guide** - Amos Salvador 1994-01-01

## *Seismic Stratigraphy* - R.E. Sheriff 2012-12-06

Every little wiggle has a meaning all its own. This is our underlying faith, that details of seismic waveshapes can tell us the details of the nature of the earth. But their voices are obscured by many irrelevancies. They speak in a high-noise environment, and we have been able to decipher only a small portion. However, things are looking up: better tech niques are lessening the irrelevancies, and we are learning to read. In exploration of unknown areas, determining the nature of the rocks present is often the difficult aspect. Most of the properties of rocks that can be measured at a distance are not distinctive enough to identify the rock unambiguously. Con ventionally, seismic data are used to determine aspects of the structure. Stratigraphic pictures are inferred from the struc ture, the nature of rocks exposed for examination in the sur rounding area, and regional concepts. Three points make seismic stratigraphy feasible now: (1) we have better data

quality, (2) we have begun to sys tematize analysis procedures, and (3) we believe in the geologic significance of waveshape details.

**Seismic Imaging of Carbonate Reservoirs and Systems** - Gregor Paul Eberli 2004

## Sequence Stratigraphy and Facies Associations - Henry W. Posamentier 2009-04-15

In recent years there has been a virtual explosion of stratigraphic studies utilizing the principles of sequence stratigraphy. Although the concept of time stratigraphy is not new, the packaging of depositional units into systems tracts and sequences is. This new approach has led to the reassessment of areas that in some cases have been the subject of intense geological scrutiny for decades. The fundamental principles upon which sequence stratigraphy is based are applicable at a broad range of temporal and physical scales. This volume arises from several sessions on sequence stratigraphy held at the Thirteenth International Sedimentological Congress, with emphasis on facies associations within a sequence stratigraphic framework.

**Scientific Ocean Drilling** - National Research Council 2012-01-22

Through direct exploration of the seafloor, U.S.-supported scientific ocean drilling programs have significantly contributed to a broad range of scientific accomplishments in Earth science disciplines, shaping understanding of Earth systems and enabling new fields of inquiry. **Scientific Ocean Drilling: Accomplishments and Challenges** reviews the scientific accomplishments of U.S.-supported scientific ocean drilling over the past four decades. The book evaluates how the programs (Deep Sea Drilling Project [DSDP], 1968-1983, Ocean Drilling Program [ODP], 1984-2003, and Integrated Ocean Drilling Program [IODP], 2003-2013) have shaped understanding of Earth systems and Earth history and assessed the role of scientific ocean drilling in enabling new fields of inquiry. This book also assesses the potential for transformative discoveries for the next proposed phase of scientific ocean drilling, which is scheduled to run from 2013 to 2023. The programs' technological innovations have played a strong role in these accomplishments. The science plan for the proposed 2013-2023 program presents a strong case for the continuation of scientific ocean drilling. Each of the plan's four themes identifies compelling challenges with potential for transformative science that could only be addressed through scientific ocean drilling, although

some challenges appear to have greater potential than others. Prioritizing science plan challenges and integrating multiple objectives into single expeditions would help use resources more effectively, while encouraging technological innovations would continue to increase the potential for groundbreaking science.

**Tectonics and Sedimentation** - Dengliang Gao 2013-02-20

**Earth's Evolving Systems** - Martin 2016-12-16

Earth's Evolving Systems: The History of Planet Earth, Second Edition is an introductory text designed for popular courses in undergraduate Earth history. Written from a "systems perspective," it provides coverage of the lithosphere, hydrosphere, atmosphere, and biosphere, and discussion of how those systems interacted over the course of geologic time.

*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

Stratigraphy: A Modern Synthesis - Andrew D. Miall 2015-12-28

A Comprehensive review of modern stratigraphic methods. The stratigraphic record is the major repository of information about the geological history of Earth, a record stretching back for nearly 4 billion years. Stratigraphic studies fill out our planet's plate-tectonic history with the details of paleogeography, past climates, and the record of evolution, and stratigraphy is at the heart of the effort to find and exploit fossil fuel resources. Modern stratigraphic methods are now able to provide insights into past geological events and processes on time scales with unprecedented accuracy and precision, and have added much to our understanding of global tectonic and climatic processes. It has taken 200 years and a modern revolution to bring all the necessary developments together to create the modern, dynamic science that this book sets out to describe. Stratigraphy now consists of a suite of integrated concepts and methods, several of which have

considerable predictive and interpretive power. The new, integrated, dynamic science that Stratigraphy has become is now inseparable from what were its component parts, including sedimentology, chronostratigraphy, and the broader aspects of basin analysis.

Petrophysical Characterization and Fluids Transport in Unconventional Reservoirs - Jianchao Cai 2019-01-24

Petrophysical Characterization and Fluids Transport in Unconventional Reservoirs presents a comprehensive look at these new methods and technologies for the petrophysical characterization of unconventional reservoirs, including recent theoretical advances and modeling on fluids transport in unconventional reservoirs. The book is a valuable tool for geoscientists and engineers working in academia and industry. Many novel technologies and approaches, including petrophysics, multi-scale modelling, rock reconstruction and upscaling approaches are discussed, along with the challenge of the development of unconventional reservoirs and the mechanism of multi-phase/multi-scale flow and transport in these structures. Includes both practical and theoretical research for the characterization of unconventional reservoirs Covers the basic approaches and mechanisms for enhanced recovery techniques in unconventional reservoirs Presents the latest research in the fluid transport processes in unconventional reservoirs

Reservoir Compartmentalization - S. J. Jolley 2010

"Reservoir compartmentalization - the segregation of a petroleum accumulation into a number of individual fluid/pressure compartments - controls the volume of moveable oil or gas that might be connected to any given well drilled in a field, and consequently impacts 'booking' of reserves and operational profitability. This is a general feature of modern exploration and production portfolios, and has driven major developments in geoscience, engineering and related technology. Given that compartmentalization is a consequence of many factors, an integrated subsurface approach is required to better understand and predict compartmentalization behaviour, and to minimize the risk of it occurring unexpectedly. This volume reviews our current understanding and ability to model compartmentalization. It highlights the necessity for effective specialist discipline integration, and the value of learning from operational experience in: detection and monitoring of compartmentalization; stratigraphic and mixed-mode compartmentalization; and fault-dominated compartmentalization"--Page 4 of cover.

**Lacustrine Sandstone Reservoirs and Hydrocarbon Systems** - Olive W. Baganz 2012-11-20

Many publications on lacustrine systems concentrate on reconstructing paleo-environments, deciphering paleoclimate or estimating hydrocarbon source potential. This is the first memoir to give attention to describing the occurrence, distribution and character of sandstones in various lake settings. The memoir is divided into four sections beginning with a global overview, and followed by two sections covering lacustrine systems in compressional and extensional regimes, and concludes with a series of papers on modern lake regimes.

**Late Quaternary Stratigraphic Evolution of the Northern Gulf of Mexico Margin** - John B. Anderson 2004

Late Quaternary stratigraphic evolution of the north Gulf of Mexico margin : a synthesis -- High-resolution stratigraphy of a sandy, ramp-type margin, Apalachicola, Florida -- Late Quaternary stratigraphic evolution of the Alabama-west Florida outer continental shelf -- late Quaternary geology of the northeastern Gulf of Mexico shelf : sedimentology, depositional history, and ancient analogs of a major shelf sand sheet of the modern transgressive systems

tract -- Sequence stratigraphy of a continental margin subjected to low-energy and low-sediment-supply environmental boundary conditions : late Pleistocene-Holocene deposition offshore Alabama -- Late Quaternary deposition and paleobathymetry at the shelf-slope transition, ancestral Mobile River delta complex, northeastern Gulf of Mexico -- Depositional architecture of the Lagniappe Delta : sediment characteristics, timing of depositional events, and temporal relations with adjacent shelf-edge deltas -- Foraminiferal biostratigraphy and paleoenvironments of the Pleistocene Lagniappe Delta and related section, northeastern Gulf of Mexico -- Late Quaternary stratigraphic evolution of the west Louisiana-east Texas continental shelf -- Late Quaternary Brazos and Colorado deltas, offshore Texas, their evolution and the factors that controlled their deposition -- Late Quaternary evolution of the wave-storm-dominated Central Texas Shelf -- Late Quaternary evolution of the Rio Grande Delta.

**Sequence Stratigraphy of Siliciclastic Systems** - Vitor Abreu 2017

ExxonMobil Geoscience Research - 2005

"This volume includes a collection of selected papers from the past half-century representing major contributions made by ExxonMobil geoscientists. This history spans a number of organizations and a broad range of topics including seismic theory, geochemistry, structural geology, plate tectonics, assessment, well log analysis and sequence stratigraphy. We have selected papers that have had a significant impact on their field, that introduced new paradigms, and that are recognized outside of ExxonMobil as classic contributions. This collection reflects a strong tradition of excellence in geoscience research that is both a source of pride and a legacy for the generations of ExxonMobil geoscientists that follow. The advances made through this work have enabled the development of numerous technologies used today in petroleum exploration, development, and production." -- Introduction by S. Anne Reeckmann.

High Resolution Sequence Stratigraphy - John A. Howell 1996

**Giant Hydrocarbon Reservoirs of The World** - Paul Mitchell Harris 2006

Reservoirs described in this volume are located in the Middle East, Asia, West Africa, North and South America. The authors explore historical and alternative approaches to reservoir description, characterization, and management, as well as examining appropriate levels and timing of data gathering, technology applications, evaluation techniques, and management practices in various stages in the life of individual development projects. The giant fields discussed address issues important to reservoir description, characterization, and management from both geologic & engineering perspectives.

*Muds and Mudstones* - Andrew C. Aplin 1999

Transactions - Gulf Coast Association of Geological Societies 2002

**From Depositional Systems to Sedimentary Successions on the Norwegian Continental Margin** - Allard W. Martinius 2014-10-06

The Norwegian Continental Shelf (NCS), focus of this special publication, is a prolific hydrocarbon region and both exploration and production activity remains high to this day with a positive production outlook. A key element today and in the future is to couple technological developments to improving our understanding of specific geological situations. The theme of the publication reflects the immense efforts made by all industry operators and their academic partners on the

NCS to understand in detail the structural setting, sedimentology and stratigraphy of the hydrocarbon bearing units and their source and seal. The papers cover a wide spectrum of depositional environments ranging from alluvial fans to deepwater fans, in almost every climate type from arid through humid to glacial, and in a variety of tectonic settings. Special attention is given to the integration of both analogue studies and process-based models with the insights gained from extensive subsurface datasets.

**GeoArabia** - 2008

**Formation and Applications of the Sedimentary Record in Arc Collision Zones** - Amy E. Draut 2008-01-01

"Inspired by a GSA Penrose Conference held in 2005 (cosponsored by the International Association of Sedimentologists and the British Sedimentological Research Group), the 17 papers in this volume explore sedimentary environments in arc collision zones and their utility in recording the evolution of modern and ancient convergent margins. The first set of papers in the collection focuses on formation and evolution of the sedimentary record in arc settings and arc collision zones, concentrating on modern intra-oceanic examples. Papers include studies of flexural modeling and factors that affect development of siliciclastic and carbonate deposits around modern arcs. The second half of the volume presents new applications of arc sedimentary records. These relate primarily to constraining tectonic events in the evolution of arc systems, but also concern the links among tectonic uplift, collision, and geomorphic and climatic feedback mechanisms in arc collision zones."--Publisher's website.

**Sedimentology of Paralic Reservoirs** - G.J. Hampson 2017-07-20

Paralic reservoirs reflect a range of depositional environments including deltas, shoreline-shelf systems and estuaries. They provide the backbone of production in many mature basins, and contribute significantly to global conventional hydrocarbon production. However, the range of environments, together with relative sea-level and sediment supply changes, result in significant variability in their stratigraphic architecture and sedimentological heterogeneity, which translates into complex patterns of reservoir distribution and production that are challenging to predict, optimize and manage. This volume presents new research and developments in established approaches to the exploration and production of paralic reservoirs. The 13 papers in the volume are grouped into three thematic sections, which address: the sedimentological characterization of paralic reservoirs using subsurface data; lithological heterogeneity in paralic depositional systems arising from the influence of tidal currents; and paralic reservoir analogue studies of modern sediments and ancient outcrops. The volume demonstrates that heterogeneity in paralic reservoirs is increasingly well understood at all scales, but highlights gaps in our knowledge and areas of current research.

Stratigraphy and Paleolimnology of the Green River Formation, Western USA - Michael Elliot Smith 2015-07-02

This volume presents a suite of detailed stratigraphic and sedimentologic investigations of the Eocene Green River Formation of Wyoming, Colorado and Utah, one of the world's foremost terrestrial archives of lacustrine and alluvial deposition during the warmest portion of the early Cenozoic. Its twelve chapters encompass the rich and varied record of lacustrine stratigraphy, sedimentology, geochronology, geochemistry and paleontology. Chapters 2-9 provide detailed member-scale synthesis of Green River Formation strata within the Greater Green

River, Fossil, Piceance Creek and Uinta Basins, while its final two chapters address its enigmatic evaporite deposits and ichnofossils at broad, interbasinal scale.

*Deep Marine Systems* - Kevin T. Pickering 2015-10-23

Deep-water (below wave base) processes, although generally hidden from view, shape the sedimentary record of more than 65% of the Earth's surface, including large parts of ancient mountain belts. This book aims to inform advanced-level undergraduate and postgraduate students, and professional Earth scientists with interests in physical oceanography and hydrocarbon exploration and production, about many of the important physical aspects of deep-water (mainly deep-marine) systems. The authors consider transport and deposition in the deep sea, trace-fossil assemblages, and facies stacking patterns as an archive of the underlying controls on deposit architecture (e.g., seismicity, climate change, autocyclicality). Topics include modern and ancient deep-water sedimentary environments, tectonic settings, and how basinal and extra-basinal processes generate the typical characteristics of basin slopes, submarine canyons, contourite mounds and drifts, submarine fans, basin floors and abyssal plains.

**Barremian-Aptian Stratigraphy and Hydrocarbon Habitat of the Eastern Arabian Plate** - F. S. P. Van Buchem 2010

GeoArabia Special Publication 4 takes the reader on a geological journey across the eastern Arabian Plate in the Barremian to Early Albian times. It consists of 18 papers that are sequentially presented from the scale of the Arabian Plate to that of petroleum fields.

**Integration of Outcrop and Modern Analogs in Reservoir Modeling** - G. Michael Grammer 2004

**Sequence Stratigraphy of Siliciclastic Systems** - Vitor Abreu 2010

"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 ExxonMobil model 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, well logs, cores and outcrops) across scales (from local to regional and global) and depositional environments (from continental to deep marine)." -- from the SEPM website.

Principles of Sequence Stratigraphy - Octavian Catuneanu 2006-05-19

Principles of Sequence Stratigraphy provides an in-depth coverage and impartial assessment of all current ideas and models in the field of sequence stratigraphy. This textbook thoroughly develops fundamental concepts of sequence stratigraphy that links base-level changes to sedimentary deposits. It examines differing approaches to how the sequence stratigraphic method can be applied to the rock record, and reviews practical applications such as how petroleum geologists can

target where to drill for oil. The book's balanced approach helps students acquire a common terminology and conceptual understanding that will be helpful later in their academic and professional careers, whether they pursue jobs as geologists, geophysicists, or reservoir engineers. This textbook offers theoretical guidelines of how the facies and time relationships are expected to be under specific circumstances such as subsidence patterns, sediment supply, topographic gradients, etc. It goes beyond the standard treatment of sequence stratigraphy by focusing on a more user-friendly and flexible method of analysis of the sedimentary rock record than other current methods. The text is richly illustrated with dozens of full color photographs and original illustrations of outcrop, core, well log, and 3D seismic data. There is a dedicated chapter on discussions and conclusions, along with an instructor site containing images from the book. Principles of Sequence Stratigraphy will appeal to researchers and professionals, as well as upper graduate and graduate students in stratigraphy, sedimentology, petroleum geology and engineering, economic geology, coal geology, seismic exploration, Precambrian geology, and mining geology and engineering. \* Offers theoretical guidelines of how the facies and time relationships are expected to be under specific circumstances such as subsidence patterns, sediment supply, topographic gradients, etc. \* Contains numerous high-quality and full-color diagrams, photographs and illustrations, virtually on every aid in comprehension of the subject \* Features a dedicated chapter on discussions and conclusions incorporating all previous chapters with references, basic principles and strategies \* Provides an extensive list of references for further reading, as well as an author and subject index for quick information access

**Reactive Transport Modeling** - Yitian Xiao 2018-03-14

Teaches the application of Reactive Transport Modeling (RTM) for subsurface systems in order to expedite the understanding of the behavior of complex geological systems This book lays out the basic principles and approaches of Reactive Transport Modeling (RTM) for surface and subsurface environments, presenting specific workflows and applications. The techniques discussed are being increasingly commonly used in a wide range of research fields, and the information provided covers fundamental theory, practical issues in running reactive transport models, and how to apply techniques in specific areas. The need for RTM in engineered facilities, such as nuclear waste repositories or CO2 storage sites, is ever increasing, because the prediction of the future evolution of these systems has become a legal obligation. With increasing recognition of the power of these approaches, and their widening adoption, comes responsibility to ensure appropriate application of available tools. This book aims to provide the requisite understanding of key aspects of RTM, and in doing so help identify and thus avoid potential pitfalls. Reactive Transport Modeling covers: the application of RTM for CO2 sequestration and geothermal energy development; reservoir quality prediction; modeling diagenesis; modeling geochemical processes in oil & gas production; modeling gas hydrate production; reactive transport in fractured and porous media; reactive transport studies for nuclear waste disposal; reactive flow modeling in hydrothermal systems; and modeling biogeochemical processes. Key features include: A comprehensive reference for scientists and practitioners entering the area of reactive transport modeling (RTM) Presented by internationally known experts in the field Covers fundamental theory, practical issues in running reactive transport models, and hands-on examples for applying techniques in specific areas Teaches readers to appreciate the power of RTM and to stimulate usage and application Reactive Transport Modeling is written for

graduate students and researchers in academia, government laboratories, and industry who are interested in applying reactive transport modeling to the topic of their research. The book will also appeal to geochemists, hydrogeologists, geophysicists, earth scientists, environmental engineers, and environmental chemists.

**Incised Valleys in Time and Space** - Robert Walker Dalrymple 2006

This volume grew out of two SEPM-sponsored events, an SEPM Research Conference that took place in Casper, Wyoming, in 2002 and an SEPM Research Symposium that was held at the AAPG/SEPM Annual Meeting in 2003. Several other papers have been added to broaden the range of examples presented. The theme of the volume, "Incised Valleys in Time and Space", has been chosen because of the comparison of valleys of different ages and in different settings is a valuable approach to understanding the role of the many factors that interact to create the valley and to emplace the subsequent valley-filling deposits. Each example, whether modern or ancient, represents a real-world experiment that lacks the temporal and spatial scaling issues that inhibit the application of laboratory experiments. Of course, the dependent and independent variables cannot be "controlled" in natural systems, but our ability to deduce the approximate values of these quantities (e.g., subsidence, sediment supply, climate) is increasing continually, such that semiquantitative and even quantitative estimates can be made in some cases. Almost all of the papers in the volume discuss more than a single incised valley, comparing two or more contemporaneous valleys, or valleys of different ages in the same geographic area. Such comparisons bring similarities and differences into sharper focus than any collection of individual case studies could, and highlight the relative importance of the many factors that influence the resulting sedimentary succession.

**Carbonate Sequence Stratigraphy** - Robert G. Loucks 1983-04-15  
Hardcover plus Foldouts

**The Gulf of Mexico Sedimentary Basin** - John W. Snedden 2019-11-21

A comprehensive and richly illustrated overview of the Gulf of Mexico Basin, including its reservoirs, source rocks, tectonics and evolution.

**L'anàlisi de conques : aproximació pluridisciplinària als estudis geològics i a l'exploració i gestió de recursos** - Cabrera Pérez, Lluís 2018-11-21

The NE Atlantic Region - G. Péron-Pinvidic 2017-10-30

The NAG-TEC project was a collaborative effort by the British Geological Survey, the Geological Survey of Denmark and Greenland, the Geological Survey of Ireland, the Geological Survey of the Netherlands, the Geological Survey of Northern Ireland, the Geological Survey of Norway, Iceland GeoSurvey and the Faroese Geological Survey (Jarðfeingi), along with a number of academic partners and significant support from industry. The main focus was to investigate the tectonic evolution of the region with a particular emphasis on basin evolution along conjugate margins. A key outcome was the development of a new tectonostratigraphic atlas and database that includes comprehensive geological and geophysical information relevant for understanding the Devonian to present evolution of the NE Atlantic margins. These provide the foundation upon which ongoing research and exploration of the area can build. This Special Publication provides some of the first scientific results and analysis based on the project, including regional stratigraphic analysis and correlations, crustal structure and interpretation of geophysical data sets, plate kinematics and the evolution of igneous provinces.

**Reservoir** - 2007

**Journal of Petroleum Technology** - 2003

Recent Advances in Models of Siliciclastic Shallow-marine Stratigraphy - Gary J. Hampson 2008

*The APPEA Journal* - 2003