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## **Implementation of Ensemble-Based Reservoir Modelling on the Ærfugl Field**

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### **Abstract**

An ensemble-based modelling method has been implemented and utilized in reservoir management of the Ærfugl field. Ærfugl is a 60-km long, 3-km wide gas condensate accumulation in a Cretaceous deep marine deposited reservoir with high net-to-gross. The field has a 6-year long production history from one test producer. A key objective of the modelling effort was to take an uncertainty-centric approach that could integrate all available data. The methodology of this approach is presented, and its benefits and challenges are discussed. The quality of the automated history matching is shown, and the resulting uncertainty ranges are discussed. Practical use of the ensemble for forecasting and decision making is also presented.

A set of 100 reservoir models was created with Monte Carlo sampling. All uncertain parameters that were deemed important were varied, such as geological input surfaces, geostatistical parameters, petrophysical parameters, relative permeability curves, etc. All models were then conditioned to dynamic pressure and production data using an ensemble Kalman based method. The updates made by data conditioning apply to all uncertain parameters as defined in the generation of the initial ensemble, including facies and structural modelling.

The data conditioning arguably produced an adequate history match for the entire model ensemble. The posterior uncertainty range (after integrating dynamic data) remained high for most variables, but uncertainty related to in-place volumes was shown to be highly constrained by the dynamic data. Production forecasts were generated, and probabilistic production profiles were extracted. Four deterministic cases that were representative of the range of important parameters were extracted from the ensemble for use in certain applications where probabilistic modelling is not appropriate, or time constraints impose limitations. The model ensemble and associated production profiles were used as input to project economics, for a value-of-information study, and for well planning.

In addition to going through the work process and results, this paper aims to shed light on the method's practical effectiveness, the potential impact on the way we do reservoir management, and to highlight some specific issues that arise in practical application. The overall set-up is effective at eliminating waste by enabling rapid model updates as new data comes in and making use of existing data that would otherwise be under-utilized.

# Spe Paper 48 Palaeontolog

**James E. Martin, David C. Parris**



## **Spe Paper 48 Palaeontolog:**

**Paleontology and Geology of the Upper Jurassic Morrison Formation** John R. Foster, Spencer G. Lucas, 2006-01-01  
**Palaeontological Society of Japan Special Papers** Nihon Koseibutsu Gakkai, 1995 Geological Survey Professional Paper Geological Survey (U.S.), 1976 Geological Survey Professional Paper, 1976 **Paleontología de invertebrados** María Luisa Martínez Chacón, P. Rivas, Sociedad Española de Paleontología, Instituto Geológico y Minero de España, Universidad de Oviedo, Universidad de Granada, 2009 The Geology and Paleontology of the Late Cretaceous Marine Deposits of the Dakotas James E. Martin, David C. Parris, 2007-01-01 U.S. Geological Survey Professional Paper, 1994 *Ameghiniana*, 1999 Geological Survey of Illinois: Geology and Palaeontology Illinois. State Geologist, 1870  
**Journal of the Czech Geological Society**, 1999 *The Ordovician Earth System* Stanley Charles Finney, William B. N. Berry, 2010 The Ordovician period is a significant chapter in Earth's history that included the great Mid Ordovician biodiversification event the Hirnantian glaciation and long term greenhouse conditions Ordovician rocks are widespread on most continents and the recent finalization of a modern chronostratigraphic classification of the Ordovician system now facilitates high resolution correlations that allow for integrated multidisciplinary research The diverse papers comprising this volume address orogenesis paleogeography climate modeling sedimentation biodiversity and isotopic excursions together they promote an integrated view of the Ordovician earth system Publisher's description **Micropalaeontology and Hydrocarbon Exploration in the Middle East** M.D. Simmons, 1994-06-30 This book collates a number of studies concerning the micropalaeontology of the Middle East with special reference to hydrocarbon exploration It is an invaluable reference text which demonstrates the applications of micropalaeontology and documents the microfossils of the region  
*Bringing Fossils to Life* Donald R. Prothero, 2013-11-12 The leading textbook in its field this work applies paleobiological principles to the fossil record while detailing the evolutionary history of major plant and animal phyla It incorporates current research from biology ecology and population genetics Written for biology and geology undergrads the text bridges the gap between purely theoretical paleobiology and solely descriptive invertebrate paleobiology books emphasizing the cataloguing of live organisms over dead objects This third edition revises art and research throughout expands the coverage of invertebrates includes a discussion of new methodologies and adds a chapter on the origin and early evolution of life  
**Reservoir Model Design** Philip Ringrose, Mark Bentley, 2014-10-03 This book gives practical advice and ready to use tips on the design and construction of subsurface reservoir models The design elements cover rock architecture petrophysical property modelling multi scale data integration upscaling and uncertainty analysis Philip Ringrose and Mark Bentley share their experience gained from over a hundred reservoir modelling studies in 25 countries covering clastic carbonate and fractured reservoir types The intimate relationship between geology and fluid flow is explored throughout showing how the impact of fluid type production mechanism and the subtleties of single and multi phase flow combine to

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*Stratigraphy, Structure, and Graptolites of an Ordovician and Silurian Sequence in the Terra Cotta Mountains, Alaska Range, Alaska* Michael Churkin, Claire Carter, 1996

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Fossil Salamanders of North America J. Alan Holman, 2006-08-22 The book concludes with a discussion of the study of fossil salamanders as it relates to the development of a realistic phylogeny and classification of the group

**Palynology** J. Jansonius, Duncan Colin McGregor, 2002

Geology and Paleontology of the Kinney Brick Quarry, Late Pennsylvanian, Central New Mexico Jiri Zidek, 1992

**Landmarks in Foraminiferal Micropalaeontology** A.J. Bowden, F.J. Gregory, A.S. Henderson, 2013-12-19 TMS Special Publication 6 This TMS Special Publication comprises a collection of 23 papers with an international authorship reflecting on landmarks in the history and development of Foraminiferal micropalaeontology The volume is prefaced by an introductory overview that provides a brief and selected historical setting as well as the intended aims of the book Selected developments in Foraminiferal studies from a global perspective are presented from the time of Alcide d Orbigny and the founding of the Paris MNHN collections in the mid nineteenth century to the use of foraminifera in industry other museum collections palaeoceanography and environmental studies regional studies from the Southern Hemisphere and the rise and fall of significant research schools The book concludes with a chapter on the modelling of foraminifera Landmarks in Foraminiferal Micropalaeontology History and Development will be of particular interest to micropalaeontologists other Earth scientists historians of science museum curators and the general reader with an interest in science

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