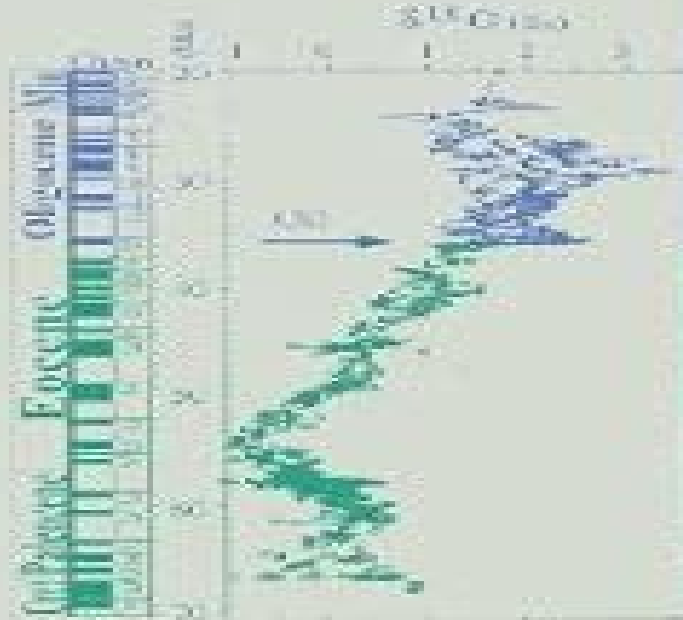


# From Greenhouse to Icehouse

THE MARINE EOCENE-OLIGOCENE TRANSITION



EDITED BY

DONALD R. PROTHERO, LINDA C. WANN AND ELIZABETH A. NESBITT

# From Greenhouse To Icehouse The Marine Eocene Oligocene Transition

**Marcelo S. de la Fuente, Juliana  
Sterli, Ignacio Maniel**



## **From Greenhouse To Icehouse The Marine Eocene Oligocene Transition:**

**From Greenhouse to Icehouse** Donald R. Prothero, Linda C. Ivany, Elizabeth A. Nesbitt, 2003 The marine Eocene Oligocene transition of 34 million years ago was a critical turning point in Earth's climatic history when the warm high diversity greenhouse world of the early Eocene ceded to the glacial icehouse conditions of the early Oligocene This book surveys the advances in stratigraphic and paleontological research and isotopic analysis made since 1989 in regard to marine deposits around the world In particular it summarizes the high resolution details of the so called doubthouse interval roughly 45 to 34 million years ago which is critical to testing climatic and evolutionary hypotheses about the Eocene deterioration The authors goals are to discuss the latest information concerning climatic and oceanographic change associated with this transition and to examine geographic and taxonomic patterns in biotic turnover that provide clues about where when and how fast these environmental changes happened They address a range of topics including the tectonic and paleogeographic setting of the Paleogene specific issues related to the stratigraphy of shelf deposits advances in recognizing and correlating boundary sections trends in the expression of climate change and patterns of faunal and floral turnover In the process they produce a valuable synthesis of patterns of change by latitude and environment **Taphonomy** Peter A. Allison, David J. Bottjer, 2010-11-03 Taphonomic bias is a pervasive feature of the fossil record A pressing concern however is the extent to which taphonomic processes have varied through the ages It is one thing to work with a biased data set and quite another to work with a bias that has changed with time This book includes work from both new and established researchers who are using laboratory field and data base techniques to characterise and quantify the temporal and spatial variation in taphonomic bias It may not provide all the answers but it will at least shed light on the right questions **The Eocene-Oligocene Transition** Donald R. Prothero, 1994 After a decade of new findings and interpretation based on innovative techniques during the 1980s archaeologists were pretty sure that 38 million years ago the earth still basked in a subtropical greenhouse that had lasted since the age of dinosaurs but 5 million years later there were glaciers in the Antarctic signalling the beginning of the icehouse state that we know now Here is a summary of the present understanding of the climatic and biological changes for nonspecialists who have some familiarity with the terms and concepts of archaeology Paper edition 08091 3 24 Annotation copyright by Book News Inc Portland OR **The ICDP-USGS Deep Drilling Project in the Chesapeake Bay Impact Structure** Gregory S. Gohn, 2009 In 2005 and 2006 an international deep drilling project conceived and organized under the auspices of the International Continental Scientific Drilling Program and the U S Geological Survey continuously cored three boreholes to a total depth of 1 766 km near the center of the Chesapeake Bay impact structure in Northampton County Virginia This volume presents the initial results of geologic petrographic geochemical paleontologic geophysical hydrologic and microbiologic analyses of the Eyreville cores which constitute a step forward in our understanding of the Chesapeake Bay impact structure and marine impact structures in general The editors

have organized this extensive volume into the following sections geologic columns borehole geophysical studies regional geophysical studies crystalline rocks impactites and impact models sedimentary breccias post impact sediments hydrologic and geothermal studies and microbiologic studies The multidisciplinary approach to the study of this impact structure should provide a valuable example for future scientific drilling investigations Publisher's description      *Rhinoceros Giants* Donald R. Prothero, 2013-05-09 A book for everyone fascinated by the huge beasts that once roamed the earth *Rhinoceros Giants* The Paleobiology of the Indricotheres introduces a prime candidate for the largest land mammal that ever lived the giant hornless rhinoceros Indricotherium These massive animals lived in Asia and Eurasia for more than 14 million years about 37 to 23 million years ago They had skulls 2 metres long stood over 7 meters at the shoulder and were nearly twice as heavy as the largest elephant ever recorded tipping the scales at 20 000 kg Fortunately the big brutes were vegetarians although they must have made predators think twice before trying to bring them down In this book for lovers of ancient creatures great and small Donald R Prothero tells their story from their discovery by palaeontologists just a century ago to the latest research on how they lived and died with some interesting side trips along the way      *Whales and Dolphins* Philippa Brakes, Mark Peter Simmonds, 2013-09-13 Whales and dolphins are icons for the conservation movement They are the most conspicuous ambassadors for entire marine ecosystems and possibly even for the biosphere as a whole Concurrent with our realisation of impending threats to their environment is a growing scientific understanding of the social and cognitive complexity of many of these species This book brings together experts in the relevant diverse fields of cetacean research to provide authoritative descriptions of our current knowledge of the complex behaviour and social organization of whales and dolphins The authors consider this new information in the context of how different human cultures from around the world view cetaceans and their protection including attitudes to whaling They show how new information on issues such as cetacean intelligence culture and the ability to suffer warrants a significant shift in global perceptions of this group of animals and how these changes might be facilitated to improve conservation and welfare approaches      **Antarctica** U.S. Geological Survey, National Research Council, Polar Research Board, 2008-05-18 Antarctica is the center from which all surrounding continental bodies separated millions of years ago Antarctica A Keystone in a Changing World reinforces the importance of continual changes in the country's history and the impact of these changes on global systems The book also places emphasis on deciphering the climate records in ice cores geologic cores rock outcrops and those inferred from climate models New technologies for the coming decades of geoscience data collection are also highlighted Antarctica A Keystone in a Changing World is a collection of papers that were presented by keynote speakers at the 10th International Symposium on Antarctic Earth Sciences It is of interest to policy makers researchers and scientific institutions      *Onshore-Offshore Relationships on the North Atlantic Margin* B.T.G. Wandås, J.P. Nystuen, E. Eide, F.M. Gradstein, 2005-06-07 This book includes a selection of oral and poster presentations from Onshore Offshore Relationships on the Nordic Margin Conference held in Trondheim in 2002 The

conference was jointly arranged by the Norwegian Geological Society NGF and the Norwegian Petroleum Society NPF and attempted through different thematic sessions to bridge the gap often noted between industry and academic research The first part of the conference included presentations under the theme Basement control on offshore structuring with representative articles from that segment included in this book and covering topics that range from analysis of vertical movements of basement substrates to the deep structural architecture of the Norwegian Sea to the development of the Jan Mayen microcontinent These papers set the scene for the second segment of the conference Linking uplift and erosion with subsidence and deposition that in the present book include articles related to the Triassic to Present day infill history in the Norwegian and northern North Seas The last segment of the conference addressed New challenges with respect to natural features of the deep water areas that necessitate particular consideration and innovation on the part of research and industry to mitigate risk and maximize returns from field development In this book the articles addressing this theme present analyses of the enormous submarine slides that took place during the Holocene in the Norwegian Sea and are of particular interest to the developers of the Ormen Lange gas field other articles address the occurrences of gas hydrates in the near sea floor and the challenges presented in identifying and protecting the Lophelia cold water reefs in the region Processes creating the structural framework for the deposition and depositional patterns in the Norwegian Sea and northern North Sea Erosion and subsequent deposition of sediments in the subsiding deep water basins in the Norwegian Sea area and northern North Sea Challenges the oil industry has met in the deep water areas of the Norwegian continental shelf

**Mountains, Climate and Biodiversity** Carina Hoorn, Allison Perrigo, Alexandre Antonelli, 2018-02-22 Mountains Climate and Biodiversity A comprehensive and up to date synthesis for students and researchers Mountains are topographically complex formations that play a fundamental role in regional and continental scale climates They are also cradles to all major river systems and home to unique and often highly biodiverse and threatened ecosystems But how do all these processes tie together to form the patterns of diversity we see today Written by leading researchers in the fields of geology biology climate and geography this book explores the relationship between mountain building and climate change and how these processes shape biodiversity through time and space In the first two sections you will learn about the processes theory and methods connecting mountain building and biodiversity In the third section you will read compelling examples from around the world exploring the links between mountains climate and biodiversity Throughout the 31 peer reviewed chapters a non technical style and synthetic illustrations make this book accessible to a wide audience A comprehensive glossary summarises the main concepts and terminology Readership Mountains Climate and Biodiversity is intended for students and researchers in geosciences biology and geography It is specifically compiled for those who are interested in historical biogeography biodiversity and conservation

**Methods in Paleoecology** Darin A. Croft, Denise F. Su, Scott W. Simpson, 2018-10-27 This volume focuses on the reconstruction of past ecosystems and provides a comprehensive review of current techniques and their application in

exemplar studies The 18 chapters address a wide variety of topics that span vertebrate paleobiology and paleoecology body mass postcranial functional morphology evolutionary dental morphology microwear and mesowear ecomorphology mammal community structure analysis contextual paleoenvironmental studies paleosols and sedimentology ichnofossils pollen phytoliths plant macrofossils and special techniques bone microstructure biomineral isotopes inorganic isotopes 3 D morphometrics and ecometric modeling A final chapter discusses how to integrate results of these studies with taphonomic data in order to more accurately characterize an ancient ecosystem Current investigators advanced undergraduates and graduate students interested in the field of paleoecology will find this book immensely useful The length and structure of the volume also makes it suitable for teaching a college level course on reconstructing Cenozoic ecosystems

**The Late Eocene Earth** Christian Koeberl, Alessandro Montanari, 2009 The Late Eocene and the Eocene Oligocene E O transition mark the most profound oceanographic and climatic changes of the past 50 million years of Earth history with cooling beginning in the middle Eocene and culminating in the major earliest Oligocene Oi 1 isotopic event The Late Eocene is characterized by an accelerated global cooling with a sharp temperature drop near the E O boundary and significant stepwise floral and faunal turnovers These global climate changes are commonly attributed to the expansion of the Antarctic ice cap following its gradual isolation from other continental masses However multiple extraterrestrial bolide impacts possibly related to a comet shower that lasted more than 2 million years may have played an important role in deteriorating the global climate at that time This book provides an up to date review of what happened on Earth at the end of the Eocene Epoch

*Origin, Evolution and Biogeographic History of South American Turtles* Marcelo S. de la Fuente, Juliana Sterli, Ignacio Maniel, 2013-10-17 The extended continental South American turtle record Norian to Lujanian allows us to follow the evolution of this reptile clade from its origins Several significant stem turtle taxa such as Palaeochersis talampayensis and Condorchelys antiqua provide information on the first steps of turtle evolution Others such as Chubutemys copelloi or Patagoniaemys gasparinae provide clues to the origin of the bizarre horned tortoises of the clade Meiolaniidae The panpleurodiran species such as Notoemys laticentralis or Notoemys zapatocaensis shed light on the origin of modern pleurodiran turtles This book explores aquatic and terrestrial cryptodiran turtles South Gondwana pleurodiran turtles North Gondwana pleurodiran turtles Meiolaniforms and early differentiation of Mesozoic turtles

*After the Dinosaurs* Donald R. Prothero, 2018-11-01 A fascinating study of the thousands of new animal species that walked in the footsteps of the dinosaurs and the climate changes that brought them forth The fascinating group of animals called dinosaurs became extinct some 65 million years ago except for their feathered descendants In their place evolved an enormous variety of land creatures especially mammals which in their way were every bit as remarkable as their Mesozoic cousins The Age of Mammals the Cenozoic Era has never had its Jurassic Park but it was an amazing time in earth s history populated by a wonderful assortment of bizarre animals The rapid evolution of thousands of species of mammals brought forth many incredible

creatures including our own ancestors Their story is part of a larger story of new life emerging from the greenhouse conditions of the Mesozoic warming up dramatically about 55 million years ago and then cooling rapidly so that 33 million years ago the glacial ice returned The earth s vegetation went through equally dramatic changes from tropical jungles in Montana and forests at the poles Life in the sea underwent striking evolution reflecting global climate change including the emergence of such creatures as giant sharks seals sea lions dolphins and whales Engaging and insightful After the Dinosaurs is a book for everyone who has an abiding fascination with the remarkable life of the past **Fossil Record 4** Robert M. Sullivan, Spencer G. Lucas, 2015 **Tectonic, Climatic, and Cryospheric Evolution of the Antarctic Peninsula** John B. Anderson, Julia S. Wellner, 2013-05-02 Published by the American Geophysical Union as part of the Special Publications Series Tectonic Climatic and Cryospheric Evolution of the Antarctic Peninsula presents the analysis of data collected during the SHALDRIL program which sampled the most complete Cenozoic stratigraphic section in the Antarctic Peninsula The stratigraphic intervals sampled fill major gaps in the existing stratigraphic record in the region which is believed to have been the last place in Antarctica to become fully glaciated and as such the last refugium for plants and animals living on the continent Providing previously unpublished results from studies aimed at improving our understanding of the changes in climate glacial setting and fauna and flora that took place over the past 30 million years the volume highlights include discussions of marine seismic and drill core records documenting the initial growth and expansion of an ice sheet across the northernmost Antarctic Peninsula continental shelf in the northwestern Weddell Sea The book features Detailed vegetation and phytoplankton evolution from greenhouse through icehouse conditions in Antarctica s last refugium Sand grain texture and micromorphology indicating ice sheet control of weathering style Exhumational history around the Drake Passage margins from thermochronology and sediment provenance Comprehensive review of the opening of the ocean passageway between Antarctica and South America and the associated regional tectonics Tectonic Climatic and Cryospheric Evolution of the Antarctic Peninsula will be of interest to geologists climatologists and glaciologists interested in climate and cryosphere evolution and those factors that regulate it California's Amazing Geology Donald R. Prothero, 2024-03-21 California has some of the most distinctive and unique geology in the United States It is the only state with all three types of plate boundaries an extraordinary history of earthquakes and volcanoes and many rocks and minerals found nowhere else The Golden State includes both the highest and lowest points in the continental US and practically every conceivable geological feature known This book discusses not only the important geologic features of each region in California but also the complex geologic four dimensional puzzle of how California was assembled beginning over two billion years ago The author provides an up to date and authoritative review of the geology and geomorphology of each geologic province as well as recent revelations of the tectonic history of California s past There are separate chapters on some of California s distinctive geologic resources including gold oil water coastlines and fossils An introductory section describes basic rock and mineral types and

fundamental aspects of plate tectonics so that students and other readers can make sense of the bizarre wild and crazy jigsaw puzzle that is California's geological history In this second edition the book has an entirely new final section California's Environmental Hazards and Challenges with new chapters on California's landslides air and water pollution renewable energy and the future of climate change in California Key Features Thoroughly updates the market leading textbook on California's geology Is written by an author with 30 years of teaching geology and leading field trips in California Introduces California's unique geological history Covers fundamentals of geology Characterizes specific geographical regions of California Describes major geological resources of California Summarizes the paleontology of California Reviews the likely impact of climate change on California's environment Related Titles Hollocher K A Pictorial Guide to Metamorphic Rocks in the Field ISBN 978 11380 2630 8 Glavovic B et al Climate Change and the Coast Building Resilient Communities ISBN 978 04154 6487 1

**Transactions** Gulf Coast Association of Geological Societies,2008 Biogenic Sedimentary Rocks in a Cold, Cenozoic Ocean Noel P. James,Yvonne Bone,2021-04-17 This book documents and interprets the onshore Cenozoic temperate carbonate depositional system along the southern margin of Australia These strata deposited in four separate basins together with the extensive modern marine system offshore comprise the largest such cool water carbonate system on the globe The approach is classic and comparative but the information is a synthesis of recent research and new information A brief section of introduction outlines the setting modern comparative sedimentology offshore and structure of the Cenozoic onshore The core of the book is a detailed analysis and illustration of the four Eocene to Pleistocene successions Deposits range from temperate carbonates to biosiliceous spiculites to marginal marine siliciclastics Each unit is interpreted as much as possible based on our understanding of the modern offshore depositional system A subsequent part concentrates on diagenesis both before and after the late Miocene uplift It turns out that alteration in the two packages is entirely different The preceding attributes of each succession are then interpreted on the basis of controlling factors such as tectonics oceanography climate and glaciation of nearby Antarctica This research has revealed new implications for the interpretation of specific attributes of cool water carbonate sedimentology that could only be discovered from the rock record Insights concerning cyclicity reef mounds biosiliceous deposition and trophic resources are detailed in the next section The concluding part focuses on global comparisons especially the Mediterranean and New Zealand

*The Cenozoic Era* John P. Rafferty Associate Editor, Earth Sciences,2010-08-15 Explores the Cenozoic era from the extinction of dinosaurs to life today including ice ages covering Earth the formation of the Grand Canyon and the evolution of humans

**Quaternary Ecology, Evolution, and Biogeography** Valentí Rull,2020-03-06 Quaternary Ecology Evolution and Biogeography offers an introduction to the study of the ecological and evolutionary processes that have shaped our present biosphere under the influence of glacial interglacial cycles Written by an ecologist with paleoecological expertise this book reviews the climatic changes that have occurred during the last 2.6 million years along with the responses of organisms and ecosystems It offers



an understanding of the evolutionary origin of extant biodiversity its biogeographical patterns and the composition of modern ecological communities In addition it explores human evolution and the influence of our activities on the biosphere especially in the last millennia This book offers the latest information on how studying the past can contribute to our understanding of present climate issues for a better future and is an ideal resource for researchers and students in the natural sciences

## Reviewing **From Greenhouse To Icehouse The Marine Eocene Oligocene Transition**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**From Greenhouse To Icehouse The Marine Eocene Oligocene Transition**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Table of Contents From Greenhouse To Icehouse The Marine Eocene Oligocene Transition**

1. Understanding the eBook From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
  - The Rise of Digital Reading From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
  - Advantages of eBooks Over Traditional Books
2. Identifying From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
  - User-Friendly Interface
4. Exploring eBook Recommendations from From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
  - Personalized Recommendations
  - From Greenhouse To Icehouse The Marine Eocene Oligocene Transition User Reviews and Ratings

- From Greenhouse To Icehouse The Marine Eocene Oligocene Transition and Bestseller Lists
- 5. Accessing From Greenhouse To Icehouse The Marine Eocene Oligocene Transition Free and Paid eBooks
  - From Greenhouse To Icehouse The Marine Eocene Oligocene Transition Public Domain eBooks
  - From Greenhouse To Icehouse The Marine Eocene Oligocene Transition eBook Subscription Services
  - From Greenhouse To Icehouse The Marine Eocene Oligocene Transition Budget-Friendly Options
- 6. Navigating From Greenhouse To Icehouse The Marine Eocene Oligocene Transition eBook Formats
  - ePub, PDF, MOBI, and More
  - From Greenhouse To Icehouse The Marine Eocene Oligocene Transition Compatibility with Devices
  - From Greenhouse To Icehouse The Marine Eocene Oligocene Transition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
  - Highlighting and Note-Taking From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
  - Interactive Elements From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
- 8. Staying Engaged with From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
- 9. Balancing eBooks and Physical Books From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
  - Setting Reading Goals From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
  - Fact-Checking eBook Content of From Greenhouse To Icehouse The Marine Eocene Oligocene Transition
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

### **From Greenhouse To Icehouse The Marine Eocene Oligocene Transition Introduction**

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