

# **Eocene Oligocene Transition**

L. DIESTER-HAASS,R. ZAHN

#### **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 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 Terrestrial Eocene-Oligocene Transition in North America Donald R. Prothero, Robert J. Emry, 1996-06-13 The transition from the Eocene to the Oligocene epoch occurring approximately 47 to 30 million years ago was the most dramatic episode of climatic and biotic change since the demise of the dinosaurs The mild tropical climates of the Paleocene and early Eocene were replaced by modern climatic conditions and extremes including glacial ice in Antarctica The first part of this book summarizes the latest information in the dating and correlation of the strata of late middle Eocene through early Oligocene age in North America The second part reviews almost all the important terrestrial reptiles and mammals found near the Eocene Oligocene boundary in the White River Chronofauna from the turtles snakes and lizards to the common rodents carnivores oreodonts and deer of the Badlands This is the first comprehensive treatment of these topics in over sixty years and will be invaluable to vertebrate paleontologists geologists mammalogists and evolutionary biologists Terminal Eocene Events C. Pomerol, I. Premoli-Silva, 2011-09-22 The papers in this volume provide an exhaustive inventory and description of the most complete sedimentary sequences across the Eocene Oligocene Boundary EOB from all over the world and present a synthesis of the biotic and chemico physical events detected at the Eocene

Oligocene transition The content of the book represents the results achieved by Project no 174 on Geological Events at the Eocene Oligocene boundary of the International Geological Correlation Program sponsored by UNESCO The project was carried out over a five year period and has provided a wealth of new and interesting information The Eocene Oligocene **Transition** Michelle Elizabeth Zill, 2016 The Eocene Oligocene Transition EOT from 35 33 Ma centered at 33 9 million years ago Ma marks the transition from a Greenhouse to an Icehouse earth It is associated with the appearance of bulk feeding whales and the widespread increase in opal sedimentation in the earliest Oligocene and has been interpreted to record the initiation of a highly productive Southern Ocean ecosystem We measured accumulation rates of pelagic fish teeth and shark denticles ichthyoliths in a global array of ocean cores that span the EOT to test the impact of this transition on mid level pelagic consumers which could serve as trophic links between the opal producing diatoms and larger predatory whales We find that there is no increase in fish productivity across the Eocene Oligocene Transition in any of our records indeed few records show any changes in fish production associated directly with the E O boundary or the Oi 1 glaciation event at 34 Ma Moreover we find that export productivity was lower in our Southern Ocean sites compared to lower latitude sites in both the Atlantic and tropical Pacific for the duration of the records Ecosystem models predict that diatom based food webs should support abundant top predators However with reduced fish productivity we speculate that diatoms instead formed the base of a food web which short circuited fishes perhaps feeding krill and other seasonally blooming zooplankton that in turn directly supported seasonally present top predators such as large whales Climatic and Oceanic Changes Across the Eocene-Oligocene Transition Alan Kennedy-Asser, 2019 **Eocene-Oligocene Climatic and Biotic Evolution** Donald R. Prothero, William A. Berggren, 2014-07-14 The transition from the Eocene to the Oligocene epochs was the most significant event in earth history since the extinction of dinosaurs As the first Antarctic ice sheets appeared major extinctions and faunal turnovers took place on the land and in the sea eliminating forms adapted to a tropical world and replacing them with the ancestors of most of our modern animal and plant life Through a detailed study of climatic conditions and of organisms buried in Eocene Oligocene sediments this volume shows that the separation of Antarctica from Australia was a critical factor in changing oceanic circulation and ultimately world climate In this book forty eight leading scientists examine the full range of Eocene and Oligocene phenomena Their articles cover nearly every major group of organisms in the ocean and on land and include evidence from paleontology stable isotopes sedimentology seismology and computer climatic modeling The volume concludes with an update of the geochronologic framework of the late Paleogene Originally published in 1992 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its

founding in 1905 The Marine Eocene-Oligocene Transition **Terminal Eocene Events** Charles Pomerol, 1986-01-01 The papers in this volume provide an exhaustive inventory and description of the most complete sedimentary sequences across the Eocene Oligocene Boundary EOB from all over the world and present a synthesis of the biotic and chemico physical events detected at the Eocene Oligocene transition The content of the book represents the results achieved by Project no 174 on Geological Events at the Eocene Oligocene boundary of the International Geological Correlation Program sponsored by UNESCO The project was carried out over a five year period and has provided a wealth of new and interesting information The Deep-sea Climate Record of the Eocene-Oligocene Transition Victoria Emma Paleoclimatology and Paleoecology of the Eocene-Oligocene Transition, Central North America Taylor,2022 **Evolution of Tertiary Mammals of North America: Volume 1, Terrestrial Carnivores,** Alessandro Zanazzi, 2008 Ungulates, and Ungulate Like Mammals Christine M. Janis, Kathleen M. Scott, Louis L. Jacobs, 1998-05-28 This book is designed as a source and reference for people interested in the history and fossil record of North American tertiary mammals Each chapter covers a different family or order and includes information on anatomical features systematics the distribution of the genera and species at different fossil localities and a discussion of their paleobiology Many of these groups have never The Late Eocene Earth Christian Koeberl, Alessandro Montanari, 2009 The Late been covered in this fashion before 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 The Marine Eccene-Oligocene Transition: a Synthesis, Earth at the end of the Eocene Epoch Eocene-Oligocene transition in the Southern Ocean L. DIESTER-HAASS, R. ZAHN, 1996 The marine 1870s/1880s record of the **Eocene-Oligocene transition** G. RAVIZZA,B. PEUCKER-EHRENBRINK,2003 Triggers and Consequences of Glacial The ICDP-USGS Deep Drilling Project in **Expansion Across the Eocene - Oligocene Transition** A. J. P. Houben, 2012 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 *The Vegetation of Antarctica Through Geological Time* David J. Cantrill, Imogen Poole, 2012-11-22 Looks at the fossil plant history of Antarctica and its relationship to the global record of environmental and climate change **Gas Geochemistry: New Progresses and Applications** Giovanni Martinelli, Francesco Italiano, Yunpeng Wang, Guodong Zheng, 2022-07-04

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