



# European Neogene Mammal Chronology

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NATO ASI Series

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Series A: Life Sciences Vol. 180

# European Neogene Mammal Chronology

**Bernard Wood**



## **European Neogene Mammal Chronology:**

*European Neogene Mammal Chronology* Everett H. Lindsay, Volker Fahlbusch, Pierre Mein, 2013-06-29 During the last 20 years great progress has been achieved in our understanding of both earth history and vertebrate evolution. The result is that climatic tectonic events in earth history can now be placed in a more precise and global time frame that permit their evaluation as abiotic causal factors which might trigger extinction and dispersal events in vertebrate history. Great strides have also been made in genetics and cell biology providing new insight into phylogenetic relationships among many vertebrates. These new data along with data on chronologic resolution of earth history provide tests of previous interpretations regarding ancestral descendant relationships based solely on the fossil record. It is fitting and proper that a volume on European Neogene mammal chronology is produced at this time to ensure that new interpretations of vertebrate evolution and chronology are based on the most accurate and current data. Vertebrate paleontologists believe that the fossil record is the only secure data for measuring the actual course and tempo of vertebrate evolution. Knowledge of the fossil record must keep pace with advances in other areas of science so that inferences on vertebrate evolution are accurate and meaningful.

*The Early Middle Pleistocene in Europe* Charles Turner, 2020-08-26 These papers show how new research in the classic areas and Germany but particularly in Eastern Europe is radically altering views of the stratigraphy and palaeocology of the early middle Pleistocene period showing that major glaciations did not begin only in the late middle Pleistocene.

*Evolution of Cenozoic Land Mammal Faunas and Ecosystems* Isaac Casanovas-Vilar, Lars W. van den Hoek Ostende, Christine M. Janis, Juha Saarinen, 2023-08-08 This volume presents an array of different case studies which take as primary material data sourced from the NOW New and Old Worlds database of fossil mammals. The NOW database was one of the very first large paleobiological databases and since 1996 it has been expanded from including mainly Neogene European land mammals to cover the entire Cenozoic at a global scale. In the last two decades the number of works that are based in the use of huge databases to explore ecological and evolutionary questions has increased exponentially and even though the importance of big data in paleobiological research has been outlined in selected chapters of general works no volume has appeared before this one which solely focuses on the databases as a primary source in reconstructing the past. The purpose of this book is to provide an illustrative volume showing the importance of big data in paleobiological research and presenting a broad array of unpublished examples and case studies. The book is mainly aimed to professional palaeobiologists working with Cenozoic land mammals but the scope of the book is broad enough to fit the interest for evolutionary biologists, paleoclimatologists and paleoecologists. The volume is divided in four parts. The first part includes two chapters on the development of large paleobiological databases providing a first hand account on the logic and the functioning of these databases. This is a much needed perspective which is ignored by most researchers and users of such databases and even if centered in the NOW database the lessons that can be learned from this part can be extended to other

examples After this introductory part the body of the book follows and is divided into three parts patterns in regional faunas large scale patterns and processes and ecological biogeographical and evolutionary patterns of key taxa Each chapter is written by well known specialists in the field with some participation of members of the NOW advisory board The array of selected mammal taxa ranges from carnivores equids ruminants and rodents to the genus Homo The topics studied also include the diversification and radiation of major clades large scale paleobiogeographical patterns the evolution of ecomorphological patterns and paleobiological problems such as evolution of body size or species longevity In most cases the results are discussed in relation to protracted environmental or paleogeographic changes

**The Miocene Land Mammals of Europe** Gertrud E. Rössner, Kurt Heissig, 1999 Mammoths, Sabertooths, and Hominids Jordi Agustí, Mauricio Antón, 2005-10-26 Mammoths Sabertooths and Hominids takes us on a journey through 65 million years from the aftermath of the extinction of the dinosaurs to the glacial climax of the Pleistocene epoch from the rain forests of the Paleocene and the Eocene with their lemur like primates to the harsh landscape of the Pleistocene Steppes home to the woolly mammoth It is also a journey through space following the migrations of mammal species that evolved on other continents and eventually met to compete or coexist in Cenozoic Europe Finally it is a journey through the complexity of mammalian evolution a review of the changes and adaptations that have allowed mammals to flourish and become the dominant land vertebrates on Earth With the benefit of recent advances in geological and geophysical techniques Jordi Agustí and Mauricio Antón are able to trace the processes of mammalian evolution as never before events that hitherto appeared synchronous or at least closely related can now be distinguished on a scale of hundreds or even dozens of thousands of years revealing the dramatic importance of climatic changes both major and minor Evolutionary developments are rendered in magnificent illustrations of the many extraordinary species that once inhabited Europe detailing their osteology functional anatomy and inferred patterns of locomotion and behavior Based on the latest research and field work Mammoths Sabertooths and Hominids transforms our understanding of how mammals evolved and changed the face of the planet

**Mammals of Africa: Volume III** Jonathan Kingdon, 2014-11-20 Mammals of Africa MoA is a series of six volumes which describes in detail every currently recognized species of African land mammal This is the first time that such extensive coverage has ever been attempted and the volumes incorporate the very latest information and detailed discussion of the morphology distribution biology and evolution including reference to fossil and molecular data of Africa's mammals With more than 1 160 species and 16 18 orders Africa has the greatest diversity and abundance of mammals in the world The reasons for this and the mechanisms behind their evolution are given special attention in the series Each volume follows the same format with detailed profiles of every species and higher taxa The series includes hundreds of colour illustrations and pencil drawings by Jonathan Kingdon highlighting the morphology and behaviour of the species concerned as well as line drawings of skulls and jaws by Jonathan Kingdon and Meredith Happold Every species also includes a detailed distribution map Edited by Jonathan Kingdon David Happold Tom

Butynski Mike Hoffmann Meredith Happold and Jan Kalina and written by more than 350 authors all experts in their fields Mammals of Africa is as comprehensive a compendium of current knowledge as is possible Extensive references alert readers to more detailed information Volume III edited by David Happold has profiles of 395 species of rodents comprising the squirrels dormice jerboas blind mole rats African root rats pouched rats and mice Swamp Mouse climbing mice fat mice White tailed Rat rock mice voles Maned Rat spiny mice brush furred mice gerbils jirds taterils African Forest Mouse rats and mice vleis rats whistling rats anomalures springhares gundis African mole rats porcupines Noki Dassie Rat cane rats and Coypu The volume concludes with 13 species of hares and rabbits

*Late Cretaceous and Cenozoic Mammals of North America* Michael O. Woodburne, 2004 This book places into modern context the information by which North American mammalian paleontologists recognize divide calibrate and discuss intervals of mammalian evolution known as North American Land Mammal Ages It incorporates new information on the systematic biology of the fossil record and utilizes the many recent advances in geochronologic methods and their results The book describes the increasingly highly resolved stratigraphy into which all available temporally significant data and applications are integrated Extensive temporal coverage includes the Lancia part of the Late Cretaceous and geographical coverage includes information from Mexico an integral part of the North American fauna past and present

**Fossil Vertebrates of Greece Vol. 2** Evangelos Vlachos, 2021-10-23 This 2 volume set provides a state of the art study of the fossil record and taxonomy of the main vertebrate groups from Greece Greece stands between 3 continents and its vertebrate fossil record is of great importance for paleontological and evolutionary studies in Europe Asia and Africa Fossils from classic world famous localities e g Pikermi Samos form an essential part of the collections of the most important museums in the world and have been studied by numerous scientists Recent paleontological research led to the discovery and study of numerous new sites The volumes contain a taxonomic review of all named and identified taxa their taxonomic history and current status as well as historical phylogenetic and biogeographic information Volume 2 contains a synopsis of the fossil record and taxonomy of important groups of mammals represented in the fossil record of Greece The volume starts with specific chapters on laurasiatherians like insectivores and bats moving on to the main part of the book that deals with three of the most important fossil groups in the country The fossil record of even toed animals is summarized with chapters on bovids cervids suoids anthracotheres hippos giraffes and tragulids The fossil record of odd toed animals is presented with special chapters on horses tapirs rhinos and chalicotheres The last part of this volume deals with meat eating carnivorous groups like felids viverrids hyaenas canids bears ailurids mephitids and mustelids The volume ends with a special chapter on insular endemic mammals from the various islands of Greece

**At the Foot of the Himalayas** Catherine Badgley, Michèle E. Morgan, David Pilbeam, 2025-01-28 This authoritative volume brings together decades of insights from one of the longest terrestrial fossil records on the planet The fabled Himalayas have isolated and sheltered the Indian subcontinent for millions of years The Siwalik sequence of sediments

at their feet has been a treasure trove of visions into the past for generations of paleontologists preserving an immense 20 million years of terrestrial ecosystems fossil record The Siwalik sequence reveals a unique forest wonderland of diverse animal species from huge elephant relatives great rhinos and sabertooth cats to mongooses swamp rats crocodiles and catfish Regional climate change eventually caused this forest ecosystem to unravel as grasslands replaced the forests and established the habitats and animals of the modern ecosystems of the Indus and Ganges rivers In At the Foot of the Himalayas celebrated paleontologists Catherine Badgley Mich le Morgan and David Pilbeam bring together a collection of world renowned scholars to present an interdisciplinary approach to documenting and interpreting this fossil record By investigating changes in landscape climate and vertebrate species diversity their analysis reveals insights into a central question about biodiversity which evolutionary developments were influenced by changes in climate and which were caused by interactions among the species themselves This groundbreaking book illuminates for the first time a mysterious and vibrant paleontological past bringing together more than 40 years of exciting international collaborative studies that forge invaluable knowledge pathways for the ecologists evolutionary scientists and paleontologists of the future and pose important questions about our fragile ecosystems in the present day

**Cenozoic Mammals of Africa** Lars Werdelin, William Joseph Sanders, 2010-07-20 This impressively comprehensive volume is a long awaited and worthy successor to the now outdated 1978 classic Evolution of African Mammals A must have reference work for everyone interested in mammalian evolution David Pilbeam Harvard University and the Peabody Museum of Archaeology and Ethnology

Effects of Past Global Change on Life National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Panel on Effects of Past Global Change on Life, 1995-02-01 What can we expect as global change progresses Will there be thresholds that trigger sudden shifts in environmental conditions or that cause catastrophic destruction of life Effects of Past Global Change on Life explores what earth scientists are learning about the impact of large scale environmental changes on ancient life and how these findings may help us resolve today s environmental controversies Leading authorities discuss historical climate trends and what can be learned from the mass extinctions and other critical periods about the rise and fall of plant and animal species in response to global change The volume develops a picture of how environmental change has closed some evolutionary doors while opening others including profound effects on the early members of the human family An expert panel offers specific recommendations on expanding research and improving investigative tools and targets historical periods and geological and biological patterns with the most promise of shedding light on future developments This readable and informative book will be of special interest to professionals in the earth sciences and the environmental community as well as concerned policymakers

**Geology and Paleontology of the Miocene Sinap Formation, Turkey** Mikael Fortelius, 2003 The Sinap Formation in central Turkey near the city of Ankara preserves a rich record of mammalian evolution from about 15 to 5 million years ago and is one of the few sites in this region

that also has fossil apes It is unique among other fossil localities from Europe to Western Asia in that it has a thick stratigraphic section and preserves a long record of geological time The authors have been able to piece together a detailed record of faunal change and by adding paleomagnetic and radiometric dating techniques have produced a chronostratigraphy for the Formation Because of the dual importance of the rich record of the fossils and the dating of the sediments the editors have been able to attract some of the leading authorities on Eurasian Neogene paleontology and geology to contribute to this reference work The results from the Sinap Formation will be the template against which other sites from Europe to Asia are compared

Examining Evolutionary Trends in Equus and its Close Relatives from Five Continents Raymond Louis Bernor, Gina Marie Semperebon, Florent Rivals, Leonardo Santos Avilla, Eric Scott, 2020-03-12

Evolution of the horse has been an often cited primary example of evolution as well as one of the classic and important stories in paleontology for over a century and a half due to their rich fossil record across 5 continents North America South America Europe Asia and Africa The recent horse has served a profound role in human ancestry including agriculture commerce sport transport warfare and in prehistory for the subsistence of humans Many studies have examined the evolution of the Equidae and chronicled the striking changes in skulls dentition limbs and body size which have long been perceived to be a response to environmental shifts through time Most comprehensive studies heretofore have 1 focused on the Great Transformation changes that occurred in the early Miocene 2 involved tracking long term diversity or paleoecological trends on a single continent or within a geographical locality or 3 concentrated on the 3 toed hipparions The Plio Pleistocene evolutionary stage of horse evolution is punctuated by the great climatic fluctuations of the Quaternary beginning 2.6 Ma which influenced Equus evolution biogeographic dispersion and adaptation on a nearly global scale The evolutionary biology of Equus evolution across its entire range remains relatively poorly understood and often highly controversial Some of this lack of understanding is due to assumptions that have arisen because of the relatively derived craniodental and postcranial anatomy of Equus and its close relatives which has seemed to imply that that these forms occupied relatively homogenous and narrow dietary and locomotor niches notions that have not been adequately addressed and rigorously tested Other challenges have revolved around teasing apart environmentally driven adaptation versus phylogenetically defined morphological change Geochronologic age control of localities geographic provinces and continents has improved but in no way is absolute and can be reexamined in our proposed volume Temporal resolution for paleodietary paleohabitat and paleoecological interpretations are also challenging for understanding the evolution of Equus Our proposed volume attempts to assemble a group of experts who will address multiple dimensions of Equus evolution in time and space

**Effects of Past Global Change on Life** Panel on Effects of Past Global Change on Life, Commission on Geosciences, Environment and Resources, Division on Earth and Life Studies, National Research Council, 1995-01-15 What can we expect as global change progresses Will there be thresholds that trigger sudden shifts in environmental conditions or that cause

catastrophic destruction of life Effects of Past Global Change on Life explores what earth scientists are learning about the impact of large scale environmental changes on ancient life and how these findings may help us resolve today's environmental controversies Leading authorities discuss historical climate trends and what can be learned from the mass extinctions and other critical periods about the rise and fall of plant and animal species in response to global change The volume develops a picture of how environmental change has closed some evolutionary doors while opening others including profound effects on the early members of the human family An expert panel offers specific recommendations on expanding research and improving investigative tools and targets historical periods and geological and biological patterns with the most promise of shedding light on future developments This readable and informative book will be of special interest to professionals in the earth sciences and the environmental community as well as concerned policymakers Paleoclimate and Evolution, with Emphasis on Human Origins Elisabeth S. Vrba, George H. Denton, Timothy C. Partridge, Lloyd H. Burckle, 1995-01-01 Addressing the relationship between climatic and biotic evolution this work focuses on how climatic change during the last 15 million years especially the last three million has affected human evolution and other evolutionary events Wiley-Blackwell Encyclopedia of Human Evolution Bernard Wood, 2011-03-31 This comprehensive A to Z encyclopedia provides extensive coverage of important scientific terms related to improving our understanding of how we evolved Specifically the 5 000 entries in this two volume set cover evidence and methods used to investigate the relationships among the living great apes evidence about what makes the behavior of modern humans distinctive and evidence about the evolutionary history of that distinctiveness as well as information about modern methods used to trace the recent evolutionary history of modern human populations This text provides a resource for everyone studying the emergence of Homo sapiens Visit the companion site [www.woodhumanevolution.com](http://www.woodhumanevolution.com) to browse additional references and updates from this comprehensive encyclopedia Dating and Earthquakes Janet M. Sowers, Jay S. Noller, William R. Lettis, 1998 **Carnivore Behavior, Ecology, and Evolution** John L. Gittleman, 2019-05-15 Because carnivores are at the top of the food chain their status is an important indicator of the health of the world ecosystem They are intensely interesting to zoologists and uniquely intriguing to the general public Devoted primarily to terrestrial carnivores this volume focuses on such themes as carnivore reintroduction programs and the ethics of studying carnivores drawing examples from a variety of species The need to evaluate new conceptual ideas and empirical data inspired this volume of Carnivore Behavior Ecology and Evolution a complement to the original book In the eight years since publication of the first volume conservation has emerged as a thematic imperative The study of carnivores has become even more important in raising and resolving crucial biological problems Differential rates of mortality in the giant panda and other endangered carnivores are now known to influence dispersal and life history patterns basic to these species survival Reintroduction efforts of the black footed ferret and the red wolf are establishing essential guidelines for preservation and management of endangered species Studies of the African lion



and the dwarf mongoose illustrate the power of new genetic techniques of DNA fingerprinting for understanding the evolution of social behavior **Interpreting the Past** Daniel Lieberman, Richard W. Smith, Jay Kelley, 2005-11-01 This volume published in honor of the occasion of David Pilbeam's 65th birthday covers major topics in human primate and mammalian evolution mostly from the Miocene to the present. The papers emphasize novel interpretations of several key areas of longstanding interest and importance including Miocene biogeography and hominoid evolution, the origins of hominids and new interpretations of the hominid fossil record. In terms of content, most of the papers tackle key issues in the evolution of hominoids and hominids in terms of systematic, paleoenvironmental and behavioral questions. More broadly, however, the papers explore the epistemological problems of how one interprets the past from the available data.

*Encyclopedia of Quaternary Science*, 2006-11-24 The quaternary sciences constitute a dynamic multidisciplinary field of research that has been growing in scientific and societal importance in recent years. This branch of the Earth sciences links ancient prehistory to modern environments. Quaternary terrestrial sediments contain the fossil remains of existing species of flora and fauna and their immediate predecessors. Quaternary science plays an integral part in such important issues for modern society as groundwater resources and contamination, sea level change, geologic hazards, earthquakes, volcanic eruptions, tsunamis and soil erosion. With over 360 articles and 2,600 pages, many in full color, the Encyclopedia of Quaternary Science provides broad ranging up to date articles on all of the major topics in the field. Written by a team of leading experts and under the guidance of an international editorial board, the articles are at a level that allows undergraduate students to understand the material while providing active researchers with the latest information in the field. Also available online via ScienceDirect 2006 featuring extensive browsing, searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy. For more information, pricing options and availability visit [www.info.sciencedirect.com](http://www.info.sciencedirect.com). 360 individual articles written by prominent international authorities encompassing all important aspects of quaternary science. Each entry provides comprehensive in depth treatment of an overview topic and is presented in a functional clear and uniform layout. Reference section provides guidance for further research on the topic. Article text supported by full color photos, drawings, tables and other visual material. Writing level is suited to both the expert and non expert.

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web parental guarantee the obligations of contractor under this agreement shall be secured by a guarantee in the form of exhibit j 1 attached hereto and executed and delivered by the guarantor contractor hereby represents and warrants that guarantor is from the effective date until final completion of each xxxx 0 xxx xxx xxxx 0 xxxxxxxx

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