



European Neogene Mammal Chronology

Glyn Davies, John Oates



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

Evolution of Tertiary Mammals of North America: Volume 1, Terrestrial Carnivores, 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 been covered in this fashion before

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

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 Lancian part of the Late Cretaceous and geographical coverage includes information from Mexico an integral part of the North American fauna past and present

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 http://www.woodhumanevolution.com/target_blank to browse additional references and updates from this comprehensive encyclopedia

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 **Stratigraphy** Wang Naiwen,Jürgen Remane,1998 This volume presents the proceedings of Symposium I Stratigraphy of the 30th International Geological Congress at Beijing The proceedings aim to present a view of contemporary geology and should be of interest to researchers in the geological sciences *The Pleistocene Boundary and the Beginning of the Quaternary* John A van Couvering,John A. Van Couvering,2004-12-16 This book documents the agreed geological reference point for the Pleistocene boundary and its worldwide correlation

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 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 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 **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

Dating and Earthquakes Janet M. Sowers, Jay S. Noller, William R. Lettis, 1998

Terrestrial Depositional Systems Kate E. Zeigler, William Parker, 2017-05-15

Terrestrial Depositional Systems Deciphering Complexities through Multiple Stratigraphic Methods is the first collection of contributed articles that not only introduces young geoscientists to biostratigraphy chemostratigraphy magnetostratigraphy and lithostratigraphy but also provides seasoned practitioners with a standard reference that showcases the topic's most recent developments in research and application When studying complex depositional systems scientists often need to rely on more than one stratigraphic technique to truly understand the sequence of historical events Through a blend of specific analytical techniques experiments sampling methods and working examples this book provides a practical reference for addressing a range of depositional system challenges This multi-contributed reference combines reviews of stratigraphic methods with individual case studies providing readers with a broad scope of techniques that will aid their work in the interpretation and understanding of complex depositional systems Offers multi-contributed expertise in biostratigraphy chemostratigraphy magnetostratigraphy and lithostratigraphy ensuring a thorough yet topical coverage Features case studies in each chapter that underscore the range of applications of individual stratigraphic methods Provides detailed explanations of different analyses data collection methods and sampling techniques making the content immediately implementable Includes more than 100 illustrations figures and photographs that provide visual representations of core concepts

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

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Landscapes and Landforms of the Czech Republic Tomáš Pánek, Jan

Hradecký,2016-03-08 The book aims to present the unique geomorphological landscapes of the Czech Republic The geomorphic uniqueness of this country benefits from the proximity to two distinct European geological domains the old cratonized Bohemian Massif and the relatively young Tertiary fold and thrust belt of the Western Carpathians Landscapes and Landforms of the Czech Republic introduces general physiographical characteristics of the landscape and presents the main driving factors leading to the evolution of the present landscape The book contains twenty two chapters describing the most interesting geomorphic landscapes of the Czech Republic The selection of individual landscapes was based on visual exceptionality e g sandstone landscapes of the Northern Bohemia scientific importance e g patterned grounds in the Sudetic Mountains and historical relevance e g mining of the N zk and Hrub Jesen k Mountains The final chapters of the book discuss the protection of geomorphic heritage in the Czech Republic

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

Colobine Monkeys

Glyn Davies,John Oates,1994-11-24 Colobine monkeys have a unique digestive system analagous to that of ruminants which allows them to exploit foliage as a food source This gives them a niche in Old World forests where they are often the only abundant medium sized arboreal folivorous mammal From a possible Miocene origin Colobine monkeys have radiated into a wide variety of forms inhabiting a range of tropical woodlands in Africa and Asia Most of the extant species have been subject to long term field studies but until this book no synthesis of work on this group has been available The central theme of is that of adaptive radiation showing how the special features of colobine anatomy interacted with a range of ecosystems to produce the

distinctive species of today The book discusses parallels with other mammalian groups and will be of relevance to workers in evolutionary ecology primatology and tropical ecology

Biostratigraphy of China Wen-tang Zhang, Pei-ji Chen, Allison R. Palmer, 2003 Distributed by Elsevier Science on behalf of Science Press Biostratigraphic data are basic to geological and palaeontological research This book presents up to date material and research achievements in biostratigraphy in recent decades in China and provides a variety of knowledge to lay a solid foundation for geologists and palaeontologists worldwide It consists of 13 chapters covering 13 major geological systems Every chapter addresses tectonic sedimentary domains current biostratigraphic systems series boundaries faunal floral succession evolutionary trends and bioevents correlation of the standard columns in China with other part of the world facies patterns palaeobiogeography and palaeogeography Up to date and authoritative data basic to geologic research about China and all Asia Concepts procedures and classification follow modern international standards updated to the present Written by leading Chinese geologists and palaeontologists

The Geologic Time Scale 2012 Felix Gradstein, J.G. Ogg, Mark D. Schmitz, Gabi M. Ogg, 2012-09-01 The Geologic Time Scale 2012 winner of a 2012 PROSE Award Honorable Mention for Best Multi volume Reference in Science from the Association of American Publishers is the framework for deciphering the history of our planet Earth The authors have been at the forefront of chronostratigraphic research and initiatives to create an international geologic time scale for many years and the charts in this book present the most up to date international standard as ratified by the International Commission on Stratigraphy and the International Union of Geological Sciences This 2012 geologic time scale is an enhanced improved and expanded version of the GTS2004 including chapters on planetary scales the Cryogenian Ediacaran periods systems a prehistory scale of human development a survey of sequence stratigraphy and an extensive compilation of stable isotope chemostratigraphy This book is an essential reference for all geoscientists including researchers students and petroleum and mining professionals The presentation is non technical and illustrated with numerous colour charts maps and photographs The book also includes a detachable wall chart of the complete time scale for use as a handy reference in the office laboratory or field The most detailed international geologic time scale available that contextualizes information in one single reference for quick desktop access Gives insights in the construction strengths and limitations of the geological time scale that greatly enhances its function and its utility Aids understanding by combining with the mathematical and statistical methods to scaled composites of global succession of events Meets the needs of a range of users at various points in the workflow researchers extracting linear time from rock records students recognizing the geologic stage by their content

Terrestrial Ecosystems Through Time Anna K. Behrensmeyer, 1992-08-15 Breathtaking in scope this is the first survey of the entire ecological history of life on land from the earliest traces of terrestrial organisms over 400 million years ago to the beginning of human agriculture By providing myriad insights into the unique ecological information contained in the fossil record it establishes a new and ambitious basis for the study of evolutionary paleoecology of land ecosystems A joint undertaking of the Evolution of

Terrestrial Ecosystems Consortium at the National Museum of Natural History Smithsonian Institution and twenty six additional researchers this book begins with four chapters that lay out the theoretical background and methodology of the science of evolutionary paleoecology Included are a comprehensive review of the taphonomy and paleoenvironmental settings of fossil deposits as well as guidelines for developing ecological characterizations of extinct organisms and the communities in which they lived The remaining three chapters treat the history of terrestrial ecosystems through geological time emphasizing how ecological interactions have changed the rate and tempo of ecosystem change the role of exogenous forcing factors in generating ecological change and the effect of ecological factors on the evolution of biological diversity The six principal authors of this volume are all associated with the Evolution of Terrestrial Ecosystems program at the National Museum of Natural History Smithsonian Institution

Senèze: Life in Central France Around Two Million Years Ago Eric Delson, Martine Faure, Claude Guérin, 2025-04-09 The paleontological site of Sen ze Haute Loire central France was discovered in 1892 inside a volcanic crater For over 40 years local peasant Pierre Philis collected fossils and sold them to French and Swiss museums The site became world famous for its well preserved skeletons of ungulates and carnivores as well as rare but well preserved remains of primates and other mammals It is considered the reference fauna for the late Villafranchian and MNQ 18 biochronological units of European mammalian evolution but the lack of provenance data made modern research difficult From 2000 2006 the multidisciplinary Franco American Sen ze Research Project undertook five seasons of major fieldwork with the goals of clarifying the age stratigraphy and taphonomy of Sen ze as well as finding additional remains especially of the less well known taxa In this volume following a history of study and summary of the new fieldwork four geological chapters consider field methods stratigraphy volcanology and dating Combining argon argon ages and paleomagnetic calibration the newly recovered fossils are shown to date between 2 20 and 2 08 Ma with concentrations ca 2 20 2 18 and 2 10 2 08 Ma significantly older than previously thought Chapters on palynology ichthyology and ornithology are followed by eight chapters on the fossil mammals The chapter on biochronology places Sen ze among other sites at the start of MNQ 18 which is estimated to end ca 1 7 Ma Of some 2200 specimens known from the site over half are cervids with bovids rhinocerotids and equids far behind According to data from palynology and the habitat preferences of the more common mammals the paleoenvironment around the Sen ze maar would have included forest woodland and grassland perhaps in a warmer and moister climate than today Taphonomic studies revealed that bones often rested a long time under water lacked any indication of carnivore attack and often displayed pathologies in their joints It is likely that most of the associated skeletons were preserved undisturbed after large mammals fell into the paleolake and drowned without being able to climb out This book responds to the long held desire of later Cenozoic paleontologists to see a modern study of a site recognized worldwide as a biochronologic reference for the Plio Pleistocene Our study required renewed fieldwork using up to date techniques of topography sedimentology stratigraphy geochronology and taphonomy The systematic paleontology

chapters are based on re study of the entire body of Sen ze fossils collected during more than a century of research The volume will be of interest to paleontologists especially those concerned with the evolution of the European fauna and with the taxa studied as well as with paleoenvironmental reconstruction and biogeography It will also be of value to mammalogists interested in analyses of near modern taxa and to paleoanthropologists archaeologists and taphonomists interested in the methods utilized and the role of Sen ze as a comparative standard for a site of this age without human intervention It will surely be an essential reference for all those who want to know more about Life in Central France Around Two Million Years Ago

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European Neogene Mammal Chronology Introduction

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having a cylindrical body and a neck within is a vertical lifting ram with a support pad of some kind fixed to the top the jack

may be hydraulic or work by screw action in the hydraulic version the hydraulic ram emerges from