

Circum-Mediterranean Neogene (Miocene and Pliocene) Marine—Continental Chronologic Correlations of European Mammal Units

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R. L. BERNOR, S. SEN, AND J. AGUSTI

This paper is an update of Steininger et al. 1989. It is mainly concerned with the chronologic correlation of the Miocene and Pliocene European Mammal Biostratigies, the "European Neogene Mammal Faunal Zones" (MN zones, for discussion see Steininger et al. 1989) and the "European Mammal Faunal Units" (Aegonic, Orléanic, etc., of Fahlbusch 1975; for discussion see Steininger et al. 1989), with the new Geomagnetic Polarity Time Scale (Cande and Kent 1992; in press) and the revised Geomagnetic Polarity Time Scale, Cenozoic Geochronology, Chronostratigraphy, and Planktonic Foraminifera Zonation (Berggren et al., in press).

Within the last years rapid progress has been made in dating mammal-bearing Miocene and Pliocene sediments, either by radioisotopic dating (see also Swisher et al., this volume) and/or by geomagnetic dating (see also the following articles in this volume: Bernor et al.; Kappelman et al.; Sen; and Woodburne et al.). These recent results have been incorporated into this new data base. For a more recent compilation of the Pleistocene record see Agusti 1991 and Agusti et al. 1987.

This paper could not have been written without the continuous input of comments and new data by the following colleagues, who, in a more correct sense, are coauthors of this paper and are listed (in alphabetical order) gratefully below: Jean-Pierre Aguilar (Montpellier, France); Hans de Bruijn (Utrecht, Netherlands); Gudrun Darnner-Hock (Wien, Austria); Volker Fahlbusch (München, Germany); Leonard Ginsburg (Paris, France); Kurt Heissig (München, Germany); K. Kowalski (Kraków, Poland); G. D. Koufos (Thessalonika, Greece); Pierre Mein (Lyon, France); Jacques Michaux (Montpellier, France); Michael Rasser (Wien, Austria); Fried Rogl (Wien, Austria); Danilo Tome (Firenze, Italy); Ergin Unay (Ankara, Turkey).

The Neogene (Miocene and Pliocene) Geomagnetic Polarity Time Scale, Geochronology, Chronostratigraphy, and Planktonic Foraminifera Magnetobiochronology

Neogene Chronostratigraphy

A three-fold subdivision of the Miocene is generally accepted by most stratigraphers (Berggren et al. 1985a, b). The relationship between calcareous plankton biostratigraphy and standard chronostratigraphic units was discussed at length in Berggren et al. 1985a and 1985b, and the reader is referred to that source for background information. We review here only several (minor) adjustments and/or studies that have been made since 1985.

The Paleogene/Neogene Working Group of the IUGS Neogene Subcommittee (under the leadership of Fritz F. Steininger) has been forming on the definition of a GSSP (Global Stratigraphic Section and Point) for the Neogene and the Paleogene/Neogene boundary for over a decade. It has recently been decided (Steininger et al. 1994) to recommend that the GSSP be located at the 35-m level of the Rigozzo Formation in the Lemme-Carrosio section of NE Italy corresponding to the base of Chron C6Cn.2a and the FAD of *Globorotalia hughesi* with an age estimate of 23.8 Ma (Cande and Kent, in press; Berggren et al., in press; Hodell and Woodruff 1994). For a somewhat different point of view see Srinivasan and Kennett (1983).

The Aquitanian/Burdigalian Boundary The Aquitanian/Burdigalian boundary in the Contessa section (Gubbio, Italy) has been correlated with the FAD of *Globigerinoides affertentus* (Iaccarino 1985), and the Burdigalian/

Evolution Of Western Eurasian Neogene Mammal Faunas

Michael O. Woodburne



Evolution Of Western Eurasian Neogene Mammal Faunas:

The Evolution of Western Eurasian Neogene Mammal Faunas Raymond Louis Bernor, Volker Fahlbusch, Hans-Walter Mittmann, 1996 This book presents a comprehensive survey of current knowledge derived from the discovery of many well preserved fossil hominid primates and presents findings on factors in the turnover or transformation of faunas and floras in various regions throughout the Neogene period *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

Hominoid Evolution and Climatic Change in Europe: Volume 1, The Evolution of Neogene Terrestrial Ecosystems in Europe Jordi Agustí, Lorenzo Rook, Peter Andrews, 1999-10-07 Reconstructs European and Mediterranean climate over the last 20 million years in relation to human evolution **The Evolution of Western Eurasian Neogene Mammalian**

Faunas: [book Reviews]. , Fossil Mammals of Asia Xiaoming Wang, Lawrence J. Flynn, Mikael Fortelius, 2013-05-14

Fossil Mammals of Asia edited by and with contributions from world renowned scholars is the first major work devoted to the late Cenozoic Neogene mammalian biostratigraphy and geochronology of Asia This volume employs cutting edge biostratigraphic and geochemical dating methods to map the emergence of mammals across the continent Written by specialists working in a variety of Asian regions it uses data from many basins with spectacular fossil records to establish a groundbreaking geochronological framework for the evolution of land mammals Asia s violent tectonic history has resulted in some of the world s most varied topography and its high mountain ranges and intense monsoon climates have spawned widely diverse environments over time These geologic conditions profoundly influenced the evolution of Asian mammals and their migration into Europe Africa and North America Focusing on amazing new fossil finds that have redefined Asia s role in mammalian evolution this volume synthesizes information from a range of field studies on Asian mammals and biostratigraphy helping to trace the histories and movements of extinct and extant mammals from various major groups and all northern continents and providing geologists with a richer understanding of a variety of Asian terrains

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

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

Hominid Adaptations and Extinctions David W. Cameron, 2004 Looking at a period of history 22 to 2.5 million years ago this title examines the record of the Neogene fossil apes their adaptive trends their morphologies and their relationships to the environment their evolution and their extinctions to provide insights into the evolution of our most distant and our most immediate fossil ancestors

Straits and Seaways: Controls, Processes and Implications in Modern

and Ancient Systems V. M. Rossi, S.G. Longhitano, C. Olariu, F.L. Chiocci, 2023-03-29 Straits and seaways represent key connections of oceans and seas between emerged landmasses regulating water sediment and biota exchanges and influencing local and global climate A good understanding of the dynamic evolution of straits and seaways is therefore fundamental to accurately reconstruct the paleoecology sedimentology and stratigraphy of interconnected basins to reconstruct past Earth's system climate dynamics and to exploit different types of resources This book provides a comprehensive collection of articles dealing with both ancient and modern case studies bringing together different but complementary disciplines such as marine geology and process sedimentology and stratigraphy With the contents covering the evolution geomorphology stratigraphy sedimentology oceanography paleogeography and influence on climate of straits and seaways the book is of interest to earth scientists in many fields

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 Michèle 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

Apes and Human Evolution Russell H. Tuttle, 2014-02-17 Russell Tuttle synthesizes a vast literature in primate evolution and behavior to explain how apes and humans evolved in relation to one another and why humans became a bipedal tool making culture inventing species distinct from other hominoids He refutes the theory that we are sophisticated instinctively aggressive and destructive killer apes

The Geologic Time Scale 2012 F M Gradstein, 2012-08-14 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

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 carnivoran 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

Mammal Species of the World Don E. Wilson, DeeAnn M. Reeder, 2005 This indispensable reference work belongs in public and academic libraries throughout the world and on the shelf of every biologist who works with mammals

Bones, Clones, and Biomes Bruce D. Patterson, Leonora P.

Costa, 2024-05-31 As explorers and scientists have known for decades the Neotropics harbor a fantastic array of our planet's

mammalian diversity from capybaras and capuchins to maned wolves and mouse opossums to sloths and sakis This biological bounty can be attributed partly to the striking diversity of Neotropical landscapes and climates and partly to a series of continental connections that permitted intermittent faunal exchanges with Africa Antarctica Australia and North America Thus to comprehend the development of modern Neotropical mammal faunas requires not only mastery of the Neotropics substantial diversity but also knowledge of mammalian lineages and landscapes dating back to the Mesozoic Bones Clones and Biomes offers just that an exploration of the development and relationships of the modern mammal fauna through a series of studies that encompass the last 100 million years and both Central and South America This work serves as a complement to more taxonomically driven works providing for readers the long geologic and biogeographic contexts that undergird the abundance and diversity of Neotropical mammals Rather than documenting diversity or distribution this collection traverses the patterns that the distributions and relationships across mammal species convey bringing together for the first time geology paleobiology systematics mammalogy and biogeography Of critical importance is the book's utility for current conservation and management programs part of a rapidly rising conservation paleobiology initiative

Homo erectus W. Henry Gilbert, Berhane Asfaw, 2009-02-04 This volume the first in a series devoted to the paleoanthropological resources of the Middle Awash Valley of Ethiopia studies *Homo erectus* a close relative of *Homo sapiens* Written by a team of highly regarded scholars this book provides the first detailed descriptions photographs and analysis of the fossil vertebrates from elephants and hyenas to humans from the Daka Member of the Bouri Formation of the Afar a place renowned for an abundant and lengthy record of human ancestors These fossils contribute to our understanding human evolution and the associated fauna provide new information about the distribution and variability of Pleistocene mammals in eastern Africa The contributors are all active researchers who worked on the paleontology and geology of these unique deposits Here they have combined their disparate efforts into a single volume making the original research results accessible to both the specialist and the general reader The volume synthesizes environmental backdrop and anatomical detail to open an unparalleled window on the African Pleistocene and its inhabitants

Seasonality in Primates Diane K. Brockman, Carel P. van Schaik, 2005-11-17 This book explores how seasonal variation in resource abundance might have driven primate and human evolution

Fossil Vertebrates of Greece Vol. 1 Evangelos Vlachos, 2021-12-07 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 1 contains a synopsis of

the fossil record and taxonomy of important groups of vertebrates represented in the fossil record of Greece The volume deals with some of the early splitting clades including the basal and enigmatic conodonts and basal tetrapods like fishes amphibians and reptiles like lizards snakes crocodiles turtles and tortoises The second part of the volume deals with basal mammalian clades some of which are quite characteristic for the fossil record of the country aardwarks hyraxes proboscideans elephants and mammoths sea cows rodents and lagomorphs The volume ends with special chapters on the primate fossil record of the country including some of our most recent and distant relatives

A Geologic Time Scale

2004 Felix M. Gradstein, James George Ogg, Alan Gilbert Smith, 2004 An international team of over forty stratigraphic experts have helped to build the most up to date international stratigraphic framework for the Precambrian and Phanerozoic This successor to A Geologic Time Scale 1989 by W Brian Harland et al CUP 0521 387655 begins with an introduction to the theory and methodology behind the construction of the new time scale The main part of the book is devoted to the scale itself systematically presenting the standard subdivisions at all levels using a variety of correlation markers Extensive use is made of isotope geochronology geomathematics and orbital tuning to produce a standard geologic scale of unprecedented detail and accuracy with a full error analysis A wallchart summarising the whole time scale with paleogeographic reconstructions throughout the Phanerozoic is included in the back of the book The time scale will be an invaluable reference source for academic and professional researchers and students

Carnivoran Evolution Anjali Goswami, Anthony Friscia, 2010-07-29

Members of the mammalian clade Carnivora have invaded nearly every continent and ocean evolving into bamboo eating pandas clam eating walruses and of course flesh eating sabre toothed cats With this ecological morphological and taxonomic diversity and a fossil record spanning over sixty million years Carnivora has proven to be a model clade for addressing questions of broad evolutionary significance This volume brings together top international scientists with contributions that focus on current advances in our understanding of carnivoran relationships ecomorphology and macroevolutionary patterns Topics range from the palaeoecology of the earliest fossil carnivorans to the influences of competition and constraint on diversity and biogeographic distributions Several studies address ecomorphological convergences among carnivorans and other mammals with morphometric and Finite Element analyses while others consider how new molecular and palaeontological data have changed our understanding of carnivoran phylogeny Combined these studies also illustrate the diverse suite of approaches and questions in evolutionary biology and palaeontology

The book delves into Evolution Of Western Eurasian Neogene Mammal Faunas. Evolution Of Western Eurasian Neogene Mammal Faunas is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Evolution Of Western Eurasian Neogene Mammal Faunas, encompassing both the fundamentals and more intricate discussions.

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Evolution Of Western Eurasian Neogene Mammal Faunas Introduction

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