



LOTHAGAM

The Dawn of Humanity in Eastern Africa

Edited By

MEAVE G. LEAKEY & JOHN M. HARRIS

Lothagam The Dawn Of Humanity In Eastern Africa

Michael D. Petraglia, Bridget Allchin



Lothagam The Dawn Of Humanity In Eastern Africa:

Lothagam Meave G. Leakey, John M. Harris, 2003-01-23 Located at the southwest corner of Lake Turkana in northern Kenya Lothagam represents one of the most important intervals in African prehistory Early human remains are restricted in distribution to Africa and the acquisition of an upright bipedal striding gait the hallmark of humanity appears to be at least circumstantially linked to the reduction of equatorial forests and the spread of grasslands on that continent The diverse Lothagam fauna documents the end Miocene transition from forested to more open habitats that were exploited by grazing horses and antelopes hippos giant pigs and true elephants It also includes spectacularly complete fossil carnivore skeletons and some of the oldest human remains Enlisting a team of highly qualified specialists this book provides the geologic context and dating framework for the Lothagam fossiliferous sequences describes the immense diversity of vertebrate fossils recovered from the Late Miocene and Early Pliocene sediments and synthesizes the results to interpret the changing paleoenvironments that prevailed at this site The book will interest anthropologists paleontologists geologists and anyone interested in human origins

Hominin Environments in the East African Pliocene René Bobe, Zeresenay Alemseged, Anna K. Behrensmeyer, 2007-09-08 This volume presents the work of researchers at many sites spanning the East African Pliocene The authors take a broad approach that seeks to compare paleoenvironmental and paleoecological patterns across localities and among various taxonomic groups This volume aims to synthesize large amounts of faunal data and to present the evolution of East African vertebrates in the context of environmental and climatic changes during the Pliocene

African Paleoecology and Human Evolution Sally C. Reynolds, René Bobe, 2022-06-09 Humans evolved in the dynamic landscapes of Africa under conditions of pronounced climatic geological and environmental change during the past 7 million years This book brings together detailed records of the paleontological and archaeological sites in Africa that provide the basic evidence for understanding the environments in which we evolved Chapters cover specific sites with comprehensive accounts of their geology paleontology paleobotany and their ecological significance for our evolution Other chapters provide important regional syntheses of past ecological conditions This book is unique in merging a broad geographic scope all of Africa and deep time framework the past 7 million years in discussing the geological context and paleontological records of our evolution and that of organisms that evolved alongside our ancestors It will offer important insights to anyone interested in human evolution including researchers and graduate students in paleontology archaeology anthropology and geology

Ardipithecus kadabba Yohannes Haile-Selassie, Giday WoldeGabriel, 2023-12-22 The second volume in a series dedicated to fossil discoveries made in the Afar region of Ethiopia this work contains the definitive description of the geological context and paleoenvironment of the early hominid *Ardipithecus kadabba* This research by an international team describes Middle Awash late Miocene faunal assemblages recovered from sediments firmly dated to between 5.2 and 5.8 million years ago Compared to other assemblages of similar age the Middle Awash record is unparalleled in taxonomic

diversity composed of 2 760 specimens representing at least sixty five mammalian genera This comprehensive evaluation of the vertebrates from the end of the Miocene in Africa provides detailed morphological and taxonomic descriptions of dozens of taxa including species new to science It also incorporates results from analyses of paleoenvironment paleobiogeography biochronology and faunal turnover around the Pliocene Miocene boundary opening a new window on the evolution of mammals African fauna and its environments The second volume in a series dedicated to fossil discoveries made in the Afar region of Ethiopia this work contains the definitive description of the geological context and paleoenvironment of the early hominid *Ardipithecus kadabba* This research *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 *The Sediments of Time* Meave G. Leakey, Samira Leakey, 2020 Extraordinary This inspirational autobiography stands among the finest scientist memoirs New York Times Book Review Editors Choice Meave Leakey s thrilling high stakes memoir written with her daughter Samira encapsulates her distinguished life and career on the front lines of the hunt for our human origins a quest made all the more notable by her stature as a woman in a highly competitive male dominated field In *The Sediments of Time* preeminent paleoanthropologist Meave Leakey brings us along on her remarkable journey to reveal the diversity of our early pre human ancestors and how past climate change drove their evolution She offers a fresh account of our past as recent breakthroughs have allowed new analysis of her team s fossil findings and vastly expanded our understanding of our ancestors Meave s own personal story is replete with drama from thrilling discoveries on the shores of Lake Turkana to run ins with armed herders and every manner of wildlife to raising her children and supporting her renowned paleoanthropologist husband Richard Leakey s ambitions amidst social and political strife in Kenya When Richard needs a kidney Meave provides him with hers and when he asks her to assume the reins of their field expeditions after he loses both legs in a plane crash the result of likely sabotage Meave steps in *The Sediments of Time* is the summation of a lifetime of Meave Leakey s efforts it is a compelling picture of our human origins and climate change as well as a high stakes story of ambition struggle and hope A fascinating glimpse into our origins Meave Leakey is a great storyteller and she presents new information about the far off time when we emerged from our ape like ancestors to start the long journey that has led to our becoming the dominant species on Earth That story woven into her own journey of research and discovery gives us a book that is informative and captivating one that you will not forget Jane Goodall PhD DBE Founder of the Jane Goodall Institute Early Hominin Paleoecology Matt Sponheimer, Julia A. Lee-Thorp, Kaye E. Reed, Peter Ungar, 2013-05-15 An introduction to the multidisciplinary field of hominin paleoecology for advanced undergraduate students and beginning graduate students *Early Hominin Paleoecology* offers an up to date review of the relevant literature exploring new research and synthesizing

old and new ideas Recent advances in the field and the laboratory are not only improving our understanding of human evolution but are also transforming it Given the increasing specialization of the individual fields of study in hominin paleontology communicating research results and data is difficult especially to a broad audience of graduate students advanced undergraduates and the interested public Early Hominin Paleoecology provides a good working knowledge of the subject while also presenting a solid grounding in the sundry ways this knowledge has been constructed The book is divided into three sections climate and environment with a particular focus on the latter adaptation and behavior and modern analogs and models and features contributors from various fields of study including archaeology primatology paleoclimatology sedimentology and geochemistry Early Hominin Paleoecology is an accessible entrance into this fascinating and ever evolving field and will be essential to any student interested in pursuing research in human paleoecology

The Evolution and History of Human Populations in South Asia Michael D. Petraglia, Bridget Allchin, 2007-05-22 This is the first volume of its kind on prehistoric cultures of South Asia The book brings together archaeologists biological anthropologists geneticists and linguists in order to provide a comprehensive account of the history and evolution of human populations residing in the subcontinent New theories and methodologies presented provide new interpretations about the cultural history and evolution of populations in South Asia

The First Human Ann Gibbons, 2007-04-10 In this dynamic account award winning science writer Ann Gibbons chronicles an extraordinary quest to answer the most primal of questions When and where was the dawn of humankind Following four intensely competitive international teams of scientists in a heated race to find the missing link the fossil of the earliest human ancestor Gibbons ventures to Africa where she encounters a fascinating array of fossil hunters Tim White the irreverent Californian who discovered the partial skeleton of a primate that lived 4 4 million years ago in Ethiopia French paleontologist Michel Brunet who uncovers a skull in Chad that could date the beginnings of humankind to seven million years ago and two other groups one led by zoologist Meave Leakey the other by British geologist Martin Pickford and his French paleontologist partner Brigitte Senut who enter the race with landmark discoveries of their own Through scrupulous research and vivid first person reporting The First Human reveals the perils and the promises of fossil hunting on a grand competitive scale

Rodents of Sub-Saharan Africa Ara Monadjem, Peter J. Taylor, Christiane Denys, Fenton P.D. Cotterill, 2015-02-17 This comprehensive handbook covers all the rodents occurring in Southern Central East and West Africa south of the Sahara Genus and species accounts include diagnostic descriptions systematics and taxonomy biogeographical environment fossil species photographs of skull and mandible illustrations of molar dentition photographs of live animals distribution maps and tables of standard museum measurements

Evolution of the Human Diet Peter S. Ungar, 2007 We are interested in the evolution of hominin diets for several reasons One is the fundamental concern over our present day eating habits and the consequences of our societal choices such as obesity prevalent in some cultures and starvation in others Another is that humans have learned to feed themselves in extremely

varied environments and these adaptations which are fundamentally different from those of our closest biological relatives have to have had historical roots of varying depth The third and the reason why most paleoanthropologists are interested in this question is that a species trophic level and feeding adaptations can have a strong effect on body size locomotion life history strategies geographic range habitat choice and social behavior Diet is key to understanding the ecology and evolution of our distant ancestors and their kin the early hominins A study of the range of foods eaten by our progenitors underscores just how unhealthy many of our diets are today This volume brings together authorities from disparate fields to offer new insights into the diets of our ancestors Paleontologists archaeologists primatologists nutritionists and other researchers all contribute pieces to the puzzle This volume has at its core four main sections Reconstructed diets based on hominin fossils tooth size shape structure wear and chemistry mandibular biomechanics Archaeological evidence of subsistence stone tools and modified bones Models of early hominin diets based on the diets of living primates both human and non human paleoecology and energetics Nutritional analyses and their implications for evolutionary medicine New techniques for gleaning information from fossil teeth bones and stone tools new theories stemming from studies of paleoecology and new models coming from analogy with modern humans and other primates all contribute to our understanding When these approaches are brought together they offer an impressive glimpse into the lives of our distant ancestors The contributions in this volume explore the frontiers of our knowledge in each of these disciplines as they address the knowns the unknowns and the unknowables of the evolution of hominin diets

The Emergence of Humans Patricia J. Ash, David J. Robinson, 2011-09-20

The Emergence of Humans is an accessible informative introduction to the scientific study of human evolution It takes the reader through time following the emergence of the modern human species *Homo sapiens* from primate roots Acknowledging the controversy surrounding the interpretation of the fossil record the authors present a balanced approach in an effort to do justice to different views Each chapter covers a significant time period of evolutionary history and includes relevant techniques from other disciplines that have applications to the field of human evolution Self assessment questions linked to learning outcomes are provided for each chapter together with further reading and reference to key sources in the primary literature The book will thus be effective both as a conventional textbook and for independent study Written by two authors with a wealth of teaching experience The Emergence of Humans will prove invaluable to students in the biological and natural sciences needing a clear balanced introduction to the study of human evolution

A Companion to Paleoanthropology David R. Begun, 2012-12-20

A Companion to Paleoanthropology presents a compendium of readings from leading scholars in the field that define our current knowledge of the major discoveries and developments in human origins and human evolution tracing the fossil record from primate and hominid origins to the dispersal of modern humans across the globe Represents an accessible state of the art summary of the entire field of paleoanthropology with an overview of hominid taxonomy Features articles on the key discoveries in ape and human evolution in cranial postcranial and brain

evolution growth and development Surveys the breadth of the paleontological record from primate origins to modern humans Highlights the unique methods and techniques of paleoanthropology including dating and ecological methods and use of living primate data to reconstruct behavior in fossil apes and humans *Handbook of Paleoanthropology* Winfried Henke, Ian Tattersall, 2007-05-10 This 3 volume handbook brings together contributions by the world's leading specialists that reflect the broad spectrum of modern palaeoanthropology thus presenting an indispensable resource for professionals and students alike Vol 1 reviews principles methods and approaches recounting recent advances and state of the art knowledge in phylogenetic analysis palaeoecology and evolutionary theory and philosophy Vol 2 examines primate origins evolution behaviour and adaptive variety emphasizing integration of fossil data with contemporary knowledge of the behaviour and ecology of living primates in natural environments Vol 3 deals with fossil and molecular evidence for the evolution of Homo sapiens and its fossil relatives *Evolution and Fossil Record of African Proboscidea* William J. Sanders, 2023-08-25 This book details the long diverse and complex phylogenetic history of elephants and their fossil relatives the Proboscidea whose origin is deeply embedded some 60 million years ago in Africa Most of the major evolutionary events of proboscideans occurred in Africa and these are examined in their geological paleoecological geographic and faunal contexts Updated information about feeding adaptations taxonomy and systematics genetics and site occurrences is included and summarized in tables figures and charts This is the first comprehensive review of African proboscideans and illustrates the need to more actively protect elephants and ensure their survival in modern ecosystems Key Features Provides a comprehensive systematic review of the African proboscidean fossil record Includes a summary of taxonomy geochronology biogeography and morphology Documents major faunal events including those associated with hominin origins Synthesizes new data from genomic isotopic and microware analyses Emphasizes the role of elephants in ecosystems and the importance of conservation

Mammals of Africa Jonathan Kingdon, David Happold, Thomas Butynski, Michael Hoffmann, Meredith Happold, Jan Kalina, 2013-05-23 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 1 160 species and 16 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 some 660 colour illustrations by Jonathan Kingdon and his many drawings highlight details of morphology and behaviour of the species concerned Diagrams schematic details and line drawings of skulls and jaws are by Jonathan Kingdon and Meredith Happold Every species also includes a detailed distribution map Extensive references alert readers to more detailed information Volume I Introductory Chapters and Afrotheria 352 pages Volume II Primates 560 pages Volume III

Rodents Hares and Rabbits 784 pages Volume IV Hedgehogs Shrews and Bats 800 pages Volume V Carnivores Pangolins Equids and Rhinoceroses 560 pages Volume VI Pigs Hippopotamuses Chevrotain Giraffes Deer and Bovids 704 pages **The First Humans** Frederick E. Grine, John G. Fleagle, Richard E. Leakey, 2009-05-24 There are some issues in human paleontology that seem to be timeless Most deal with the origin and early evolution of our own genus something about which we should care Some of these issues pertain to taxonomy and systematics How many species of Homo were there in the Pliocene and Pleistocene How do we identify the earliest members the genus Homo If there is more than one Plio Pleistocene species how do they relate to one another and where and when did they evolve Other issues relate to questions about body size proportions and the functional adaptations of the locomotor skeleton When did the human postcranial Bauplan evolve and for what reasons What behaviors and what behavioral limitations can be inferred from the postcranial bones that have been attributed to Homo habilis and Homo erectus Still other issues relate to growth development and life history strategies and the biological and archeological evidence for diet and behavior in early Homo It is often argued that dietary change played an important role in the origin and early evolution of our genus with stone tools opening up scavenging and hunting opportunities that would have added meat protein to the diet of Homo Still other issues relate to the environmental and climatic context in which this genus evolved **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 **Paleontology and Geology of Laetoli: Human Evolution in Context** Terry Harrison, 2011-01-27 This volume 2 and its companion volume 1 present the results of new investigations into the geology paleontology and paleoecology of the early hominin site of Laetoli in northern Tanzania The site is one of the most important paleontological and paleoanthropological sites in Africa worldrenowned for the discovery of fossils of the early hominin Australopithecus afarensis as well as remarkable trails of its footprints The first volume provides new evidence on the geology geochronology ecology ecomorphology and taphonomy of the site The second volume describes newly discovered fossil hominins from Laetoli belonging to Australopithecus afarensis and Paranthropus aethiopicus and presents detailed information on the systematics

and paleobiology of the diverse associated fauna Together these contributions provide one of the most comprehensive accounts of a fossil hominin site and they offer important new insights into the early stages of human evolution and its context

Primate Biogeography Shawn M. Lehman, John G Fleagle, 2006-11-28 Primate Biogeography is a subject rarely addressed as a discipline in its own right This comprehensive source introduces the reader to Primate Biogeography as a discipline It highlights the many factors that may influence the distribution of primates and reveals the wide range of approaches that are available to understanding the distribution of this order The biogeography of primates in the past is a major component of our understanding of their evolutionary history and is an essential component of conservation biology This book will appeal to primatologists physical anthropologists zoologists and undergraduates in these areas

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