



# LOTHAGAM

The Dawn of Humanity in Eastern Africa

Edited By

MEAVE G. LEAKEY & JOHN M. HARRIS

# Lothagam The Dawn Of Humanity In Eastern Africa

**Gloria Arratia, Roberto E. Reis**



## **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

**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Joseph Sanders, 2010-07-20 This impressively comprehensive volume is a long awaited and worthy successor to the now outdated 1978 classic Evolution of African Mammals A must have reference work for everyone interested in mammalian evolution David Pilbeam Harvard University and the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 *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 **Climate Change and Human History** Francis Chappelle, 2023-05-16 In *Climate Change and Human History* the author presents a compelling narrative spanning billions of years revealing how climate fluctuations have fundamentally shaped human evolution and civilization From the earliest hominins adapting to East Africa's drying savannah to the rise and fall of great empires this meticulously researched work demonstrates that our existence has always been intimately connected to climate patterns The book examines crucial climate reversals throughout history from the collapse of Bronze Age civilizations to the famines of the Little Ice Age showing how warming periods enabled population growth and cultural flourishing while subsequent cooling triggered agricultural failure migrations and societal upheaval Each chapter uses geological evidence archaeological discoveries and historical accounts to illuminate how humans adapted to these changes Far from presenting climate change as a modern phenomenon the author illustrates it as Earth's constant state driven by complex interactions between solar orbital tectonic oceanic and atmospheric processes By examining volcanic eruptions from Mount Tambora to Krakatoa readers gain insight into sudden climate disruptions that altered the course of history This timely work concludes with a sobering assessment of our modern warming period and what might happen when not if the next climate reversal occurs With fascinating historical examples and scientific evidence it provides crucial context for understanding humanity's relationship with our ever-changing planet If you enjoyed *The Fate of Rome* *Origins* *How Earth's History Shaped Human History* and *Climate Change in Human History* you'll love *Climate Change and Human History*

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

**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 gleaned 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.

**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

**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

**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

*Born in Africa* Martin Meredith, 2011-05-10 Africa does not give up its secrets easily Buried there lie answers about the origins of humankind And yet though vital clues still remain hidden scientists have over the last century transformed our understanding about the beginnings of human life In *Born in Africa* Martin Meredith follows scientists trail of discoveries about human origins recounting their intense rivalry personal feuds and fierce controversies as well as their feats of skill and endurance And he limns their momentous accomplishments Scientists have identified more than twenty species of extinct humans They have firmly established Africa as the birthplace not only of humankind but also of modern humans They have revealed how early technology language ability and artistic endeavour all originated in Africa and they have shown how small groups of Africans spread out from Africa in an exodus sixty thousand years ago to populate the rest of the world

*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

*Catfishes, a Highly Diversified Group* Gloria Arratia, Roberto E. Reis, 2025-10-16 The order of Catfishes Siluriformes is one of the largest in number of families genera and species The group is found in most freshwaters and shallow saltwater bodies around the world Its extraordinary evolutionary and biogeographic pathways leave many open questions on its origin and large diversification that make its study a complex subject yet a fascinating field for research Catfishes a Highly Diversified Group is divided in two volumes Volume 1 Their Outstanding Biology 14 chapters aims to rectify the incomplete information on the enormous morphological diversity of the group special habits and adaptations to specific environments and morpho functional characteristics of the catfishes Volume 2 Evolution and Phylogeny 18 chapters deals with evolutionary mechanisms and major evolutionary trends within Siluriformes investigating new avenues concerning fossil and extant catfishes and relationships within and among families using morphological and molecular evidence

**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

*The Human Lineage* Matt Cartmill, Fred H. Smith, 2022-06-13 The newly revised and thoroughly updated standard source for mastering the human fossil record This new edition of *The Human Lineage* is the best and most current guide to the morphological geological paleontological and archeological evidence for the story of human evolution This comprehensive textbook presents the history methods and issues of paleoanthropology through detailed analyses of the major fossils of interest to practicing scientists in the field It will help both advanced students and practicing professionals to become involved with the lively scholarly debates that mark the field of human origins research Its clear and engaging chapters contain concise explanatory text and hundreds of high quality illustrations This thoroughly revised second edition reflects the most recent fossil discoveries and scientific analyses offering new sections on the locomotor adaptations of Miocene hominoids the taxonomic distinctiveness of Homo heidelbergensis the Burtele foot Ardipithecus and Neandertal genomics Updated and expanded chapters offer fresh insights on topics such as the origins of bipedality and the anatomy and evolution of early mammals and primates Written and illustrated by established leaders in the field *The Human Lineage* Provides the background needed to study human evolution including dating techniques mechanics of evolution and primate adaptations Covers the major stages in human evolution with emphasis on important fossils and their implications Offers a balanced critical assessment of conflicting ideas about key events in human evolution Includes an extensive bibliography and appendices on biological nomenclature and craniometrics Covering the entire story of human evolution from its Precambrian beginnings to the emergence of modern humanity *The Human Lineage* is indispensable reading for all advanced students of biological anthropology

**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      *Contributions in Science* ,1957      **The Evolution of Artiodactyls** Donald R. Prothero, Scott E.

Foss, 2007-12-17 Artiodactyls are diverse and successful hoofed mammals represented by nearly two hundred living species of pigs peccaries hippos camels deer sheep cattle giraffes and other even toed ungulates In the recent years a tremendous amount of research has been conducted on this important order The Evolution of Artiodactyls synthesizes this research into a single volume The authors explore a variety of topics including molecular phylogeny of terrestrial artiodactyls phylogenetic relationships of cetaceans to terrestrial artiodactyls and the earliest artiodactyls Diacodexidae Dichobunidae Homacodontidae Leptochoeridae and Raoellidae

## Unveiling the Magic of Words: A Report on "**Lothagam The Dawn Of Humanity In Eastern Africa**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Lothagam The Dawn Of Humanity In Eastern Africa**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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