



Causes of extinction

- Mostly Human
- Mostly Climate
- Insufficient data

Relative size of extinct-taxon icon corresponds to relative magnitude of extinction. Number of extinct genera is listed on each icon.

Correlations in time

- Humans arrive
- Climatic change

Numbers indicate how many genera have robust dating control evidence except as indicated:

- Provisional evidence
- ? Needs more work

Quaternary Extinctions Of Large Mammals

Paul S. Martin, Richard G. Klein



Quaternary Extinctions Of Large Mammals:

Quaternary Extinctions of Large Mammals Daniel I. Axelrod, 1967 Megafauna Richard A. Fariña, Sergio F. Vizcaíno, Gerry De Iuliis, 2013-05-22 An enjoyable read that provides a substantial amount of detail on the biology ecology and distribution of these fantastic animals Highly recommended Choice More than 10 000 years ago spectacularly large mammals roamed the pampas and jungles of South America This book tells the story of these great beasts during and just after the Pleistocene the geological epoch marked by the great ice ages Megafauna describes the history and way of life of these animals their comings and goings and what befell them at the beginning of the modern era and the arrival of humans It places these giants within the context of the other mammals then alive describing their paleobiology how they walked how much they weighed their diets behavior biomechanics and the interactions among them and with their environment It also tells the stories of the scientists who contributed to our discovery and knowledge of these transcendent creatures and the environment they inhabited The episode known as the Great American Biotic Interchange perhaps the most important of all natural history experiments is also an important theme of the book tracing the biotic events of both North and South America that led to the fauna and the ecosystems discussed in this book Collectively this book brings attention to the discovery and natural history of ancient beasts in South America while providing a broader temporal and geographic background that allows readers to understand their evolution and potential immigration to South America Quarterly Review of Biology An excellent volume This book is likely to facilitate progress in the understanding of fossil mammals from the Americas Priscum

Quaternary Extinctions Paul S. Martin, Richard G. Klein, 2022-01-04 What caused the extinction of so many animals at or near the end of the Pleistocene Was it overkill by human hunters the result of a major climatic change or was it just a part of some massive evolutionary turnover Questions such as these have plagued scientists for over one hundred years and are still being heatedly debated today Quaternary Extinctions presents the latest and most comprehensive examination of these questions Geological Magazine May be regarded as a kind of standard encyclopedia for Pleistocene vertebrate paleontology for years to come American Scientist Should be read by paleobiologists biologists wildlife managers ecologists archeologists and anyone concerned about the ongoing extinction of plants and animals Science Uncommonly readable and varied for watchers of paleontology and the rise of humankind Scientific American Represents a quantum leap in our knowledge of Pleistocene and Holocene palaeobiology Many volumes on our bookshelves are destined to gather dust rather than attention But not this one Nature Two strong impressions prevail when first looking into this epic compendium One is the judicious balance of views that range over the whole continuum between monocausal cultural or environmental explanations The second is that both the data base and theoretical sophistication of the protagonists in the debate have improved by a quantum leap since 1967 American Anthropologist **End of the Megafauna: The Fate of the World's Hugest, Fiercest, and Strangest Animals** Ross D E MacPhee, 2018-11-13 The fascinating lives and puzzling demise of some of the

largest animals on earth Until a few thousand years ago creatures that could have been from a sci fi thriller including gorilla sized lemurs 500 pound birds and crocodiles that weighed a ton or more roamed the earth These great beasts or megafauna lived on every habitable continent and on many islands With a handful of exceptions all are now gone What caused the disappearance of these prehistoric behemoths No one event can be pinpointed as a specific cause but several factors may have played a role Paleomammalogist Ross D E MacPhee explores them all examining the leading extinction theories weighing the evidence and presenting his own conclusions He shows how theories of human overhunting and catastrophic climate change fail to account for critical features of these extinctions and how new thinking is needed to elucidate these mysterious losses Along the way we learn how time is determined in earth history how DNA is used to explain the genomics and phylogenetic history of megafauna and how synthetic biology and genetic engineering may be able to reintroduce these giants of the past Until then gorgeous four color illustrations by Peter Schouten re create these megabeasts here in vivid detail

American Megafaunal Extinctions at the End of the Pleistocene Gary Haynes, 2008-12-23 The volume contains summaries of facts theories and unsolved problems pertaining to the unexplained extinction of dozens of genera of mostly large terrestrial mammals which occurred ca 13 000 calendar years ago in North America and about 1 000 years later in South America Another equally mysterious wave of extinctions affected large Caribbean islands around 5 000 years ago The coupling of these extinctions with the earliest appearance of human beings has led to the suggestion that foraging humans are to blame although major climatic shifts were also taking place in the Americas during some of the extinctions The last published volume with similar but not identical themes Extinctions in Near Time appeared in 1999 since then a great deal of innovative exciting new research has been done but has not yet been compiled and summarized Different chapters in this volume provide in depth resum s of the chronology of the extinctions in North and South America the possible insights into animal ecology provided by studies of stable isotopes and anatomical physiological characteristics such as growth increments in mammoth and mastodont tusks the clues from taphonomic research about large mammal biology the applications of dating methods to the extinctions debate and archeological controversies concerning human hunting of large mammals

Twilight of the Mammoths Paul S. Martin, 2007-05-08 Paul S Martin s innovative ideas on late quaternary extinctions and wildlife restoration have fueled one of science s most stimulating recent debates He expounds them vividly here and defends them eloquently A must read David Rains Wallace author of *Beasts of Eden* This is a marvelous read by a giant in American prehistory about one of the greatest mysteries in the earth sciences Tim Flannery author of *The Eternal Frontier* Whether or not you agree with Paul Martin he has shaped how we think about our Pleistocene ancestors and their role in transforming this planet Ross D E MacPhee Curator of Mammalogy American Museum of Natural History

Extinctions in Near Time Ross D.E. MacPhee, Hans-Dieter Sues, 2013-11-09 Near time an interval that spans the last 100 000 years or so of earth history qualifies as a remarkable period for many reasons From an anthropocentric point of view the out standing feature of

near time is the fact that the evolution cultural diversification and global spread of Homo sapiens have all occurred within it. From a wider biological perspective however the hallmark of near time is better conceived of as being one of enduring repeated loss. The point is important. Despite the sense of uniqueness implicit in phrases like the biodiversity crisis meant to convey the notion that the present bout of extinctions is by far the worst endured in recent times substantial losses have occurred throughout near time. In the majority of cases these losses occurred when and only when people began to expand across areas that had never before experienced their presence. Although the explanation for these correlations in time and space may seem obvious it is one thing to rhetorically observe that there is a connection between humans and recent extinctions and quite another to demonstrate it scientifically. How should this be done? Traditionally the study of past extinctions has fallen largely to researchers steeped in such disciplines as paleontology systematics and paleoecology. The evaluation of future losses by contrast has lain almost exclusively within the domain of conservation biologists. Now more than ever there is opportunity for overlap and sharing of information.

Pleistocene Extinctions, 1967 **Holocene Extinctions** Samuel T. Turvey, 2009-05-28

The extent to which human activity has influenced species extinctions during the recent prehistoric past remains controversial due to other factors such as climatic fluctuations and a general lack of data. However the Holocene the geological interval spanning the last 11 500 years from the end of the last glaciation has witnessed massive levels of extinctions that have continued into the modern historical era but in a context of only relatively minor climatic fluctuations. This makes a detailed consideration of these extinctions a useful system for investigating the impacts of human activity over time. *Holocene Extinctions* describes and analyses the range of global extinction events which have occurred during this key time period as well as their relationship to both earlier and ongoing species losses. By integrating information from fields as diverse as zoology ecology palaeontology archaeology and geography and by incorporating data from a broad range of taxonomic groups and ecosystems this novel text provides a fascinating insight into human impacts on global extinction rates both past and present. This truly interdisciplinary book is suitable for both graduate students and researchers in these varied fields. It will also be of value and use to policy makers and conservation professionals since it provides valuable guidance on how to apply lessons from the past to prevent future biodiversity loss and inform modern conservation planning.

Altered Ecologies Simon Haberle, Janelle Stevenson, Matthew Prebble, 2010-11-01

Like a star chart this volume orientates the reader to the key issues and debates in Pacific and Australasian biogeography palaeoecology and human ecology. A feature of this collection is the diversity of approaches ranging from interpretation of the biogeographic significance of plant and animal distributional patterns pollen analysis from peats and lake sediments to discern Quaternary climate change explanation of the patterns of faunal extinction events the interplay of fire on landscape evolution and models of the environmental consequences of human settlement patterns. The diversity of approaches geographic scope and academic rigor are a fitting tribute to the enormous contributions of Geoff Hope. As made apparent in this volume Hope pioneered multidisciplinary

understanding of the history and impacts of human cultures in the Australia Pacific region arguably the globe's premier model systems for understanding the consequences of humans' colonization on ecological systems. The distinguished scholars who have contributed to this volume also demonstrate Hope's enduring contribution as an inspirational research leader, collaborator and mentor. Terra Australis leave no doubt that history matters not only for land management but more importantly in alerting settler and indigenous societies alike to their past ecological impacts and future environmental trajectories.

Conservation Biology in Sub-Saharan Africa Richard Primack, Johnny W. Wilson, 2019-09-10 Conservation Biology in Sub-Saharan Africa comprehensively explores the challenges and potential solutions to key conservation issues in Sub-Saharan Africa. Easy to read, this lucid and accessible textbook includes fifteen chapters that cover a full range of conservation topics including threats to biodiversity, environmental laws and protected areas management, as well as related topics such as sustainability, poverty and human-wildlife conflict. This rich resource also includes a background discussion of what conservation biology is, a wide range of theoretical approaches to the subject and concrete examples of conservation practice in specific African contexts. Strategies are outlined to protect biodiversity whilst promoting economic development in the region. Boxes covering specific themes written by scientists who live and work throughout the region are included in each chapter together with recommended readings and suggested discussion topics. Each chapter also includes an extensive bibliography. Conservation Biology in Sub-Saharan Africa provides the most up-to-date study in the field. It is an essential resource available online without charge for undergraduate and graduate students as well as a handy guide for professionals working to stop the rapid loss of biodiversity in Sub-Saharan Africa and elsewhere.

Corridors to Extinction and the Australian Megafauna Steve Webb, 2013-02-27 Extinctions have always occurred and always will, so what is so surprising about the megafauna extinctions? They were caused by humans and were the first of many extinctions that eventually led to the extinction of the Moa, Steller's Sea Cow, the Dodo, Great Auk and countless other species, great and small, all attributed to human agency. Therefore, the megafauna were humans' first great impact on the planet. There is now an increasing realization that the blitzkrieg view of these extinctions may have been wrong. A growing body of evidence and long-term field work is beginning to show that at least Australia's megafauna did not succumb to human agency, not because humans probably did not hunt the odd animal but because the infinitely more logical reason lies in the climatic conditions of the Quaternary Ice Ages and the affect they had on continental geography, environment, climate and most importantly the biogeography of the megafauna. This book presents the evidence of this theory, demonstrating the biogeographic approach to Australia's megafauna extinction. Written clearly to benefit a diverse level of readers from those with a passing interest to professionals in the field. Examines future climate change and its effects on the planet by looking at examples buried in the past. Presents new evidence from extensive field research.

The Call of Distant Mammoths Peter D. Ward, 1997-04-01 To help us understand what happened during the Ice Age, Peter Ward takes us on a tour of other mass extinctions through earth's

history He presents a compelling account of the great comet crash that killed off the dinosaurs and describes other extinctions that were even more extensive In so doing he introduces us to a profound paradigm shift now taking place in paleontology rather than arising from the gradual workings of everyday forces all mass extinctions are due to unique catastrophic events Written with an irresistible combination of passion and expertise *The Call of Distant Mammoths* is an engaging exploration of the history of life and the importance of humanity as an evolutionary force Carefully argued an intelligent and compelling book *THE OLYMPIAN SEATTLE WASHINGTON* Ward deftly summarizes a large body of scientific literature simplifying complex ideas for the general reader without condescension PUBLISHERS WEEKLY Did the overkill really happen Peter Ward deftly summarizes the arguments Ward tells the story well *THE NEW SCIENTIST* *Evolution and Extinction* W. G. Chaloner, A. Hallam, 1994-06-09 Authoritative essays on the pace and nature of evolutionary change

Fossil Horses Bruce J. MacFadden, 1994-06-24 The horse has frequently been used as a classic example of long term evolution because it possesses an extensive fossil record This book synthesizes the large body of data and research relevant to an understanding of fossil horses from perspectives such as biology geology paleontology **Biodiversity Response to Climate Change in the Middle Pleistocene** Anthony D. Barnosky, 2004-08-02 Annotation Fossil finds from 10 years of research show the effects of climate change on North American mammals during the Pleistocene era about one million to 400 000 years ago *Ice Age Mammals of North America* Ian M. Lange, 2017 Lange untangles the complex evolutionary lineages of mammal families including the gomphotheres elephant like creatures that coexisted with humans at the end of the Pleistocene You ll learn about the geologic events that led to the ice ages along with possible causes for the mass extinctions of so many species *The Ghosts Of Evolution* Connie Barlow, 2008-08-05 A new vision is sweeping through ecological science The dense web of dependencies that makes up an ecosystem has gained an added dimension the dimension of time Every field forest and park is full of living organisms adapted for relationships with creatures that are now extinct In a vivid narrative Connie Barlow shows how the idea of missing partners in nature evolved from isolated curious examples into an idea that is transforming how ecologists understand the entire flora and fauna of the Americas This fascinating book will enrich and deepen the experience of anyone who enjoys a stroll through the woods or even down an urban sidewalk But this knowledge has a dark side too Barlow s ghost stories teach us that the ripples of biodiversity loss around us now are just the leading edge of what may well become perilous cascades of extinction *Quaternary Paleoecology* International Association for Quaternary Research. Congress, 1982

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