

MASS EXTINCTIONS

A mass extinction is a sharp spike in the rate of extinction of species caused by a catastrophic event, or rapid environmental change. Scientists have been able to identify five mass extinctions in Earth's history, each of which led to a loss of more than 75 percent of animal species.

1. ORDOVICIAN-SILURIAN EXTINCTION 440 MILLION YEARS AGO (MA)

Scientists theorize that there were two main phases to this extinction: a glaciation event and a heating event. Abundant plant life removed carbon dioxide (CO₂) from the air, causing global cooling and glacier formation. This led to a drop in sea levels, reducing habitat. Later came global warming and sea level rising again. Creatures that had adapted to the cooler climate were unable to survive the increased temperature. Since most life was marine at the time, 80% of life was lost.

86% LOSS

2. LATE DEVONIAN EXTINCTION—365 MA

About 75% of life died off during this period. One theory suggests that land plants developed deep roots, releasing an abundance of nutrients into the oceans that led algae. Because of this, algae blooms consumed vast amounts of oxygen (O₂) in the oceans, suffocating many species. Another theory suggests that another global cooling took place, resulting in glaciation and a fall in sea level, leading to habitat loss.

75% LOSS

3. PERMIAN-TRIASSIC EXTINCTION—252 MA

The Permian-Triassic was the deadliest extinction in history: 90% of all life perished. Scientists believe that volcanic activity in Siberia put massive amounts of carbon dioxide, a greenhouse gas, into the atmosphere. Bacteria that thrive on CO₂ began producing methane, another greenhouse gas. Large quantities of both gases warmed the planet and combined with Earth's water, making the oceans and sea acidic, creating a highly toxic environment for life.

96% LOSS

4. TRIASSIC-JURASSIC EXTINCTION—201.3 MA

Some scientists theorize that volcanic eruptions spewed tons of CO₂ into the atmosphere, which trapped heat and acidified the oceans, causing this mass extinction. Other scientists contend that an asteroid or comet impact triggered the extinction. About 80% of life was lost in this extinction, including most of the dinosaurs, making way for the dinosaur's extinction.

80% LOSS

5. CRETACEOUS-PALEOGENE EXTINCTION—66 MA

The Cretaceous-Paleogene extinction wiped out the dinosaurs, along with 60-70% of all life on Earth. A widely accepted theory is that an asteroid landed in the Yucatán Peninsula in Mexico and killed the dinosaurs. The impact would have ejected enormous amounts of debris into the atmosphere, causing global temperatures to drop. The impact may have also caused local fires, earthquakes, tsunamis, and acid rain.

60-70% LOSS

6. HOLOCENE EXTINCTION 11,700 YEARS AGO TO PRESENT

The next mass extinction may already be happening. The current extinction rate is at least a thousand times greater than the "normal" extinction rate. A "normal" or background extinction rate is the average rate of extinction based on the longevity of species through time without human influence, determined by the fossil record. Scientists believe that human impact on the environment is the leading cause of extinctions today.

NUMBER OF GENERA

40000
30000
20000
10000

Cambrian Ordovician Silurian Devonian Carboniferous Permian Triassic Jurassic Cretaceous Paleogene

GEOLOGIC TIME IN MILLIONS OF YEARS

Extinctions In Near Time

Terry C. Jones



Extinctions In Near Time:

Extinctions in Near Time R. D. E. MacPhee, 1999-06-30 This book examines an important and growing issue among ecologists conservation biologists and archaeologists namely recent extinction of species and will focus on treatments of losses thought to have been caused by humans in some way over the past 40 000 years when Homo sapiens spread worldwide There is an exemplary list of leading figures in this debate and the book should have impact for the debate on current conservation issues and biodiversity

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 glob al 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 repeat ed 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 ex pand across areas that had never before experienced their presence Although the explana tion for these correlations in time and space may seem obvious it is one thing to rhetori cally 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 biolo gists Now more than ever there is opportunity for overlap and sharing of information

Palaeobiology II Derek E. G. Briggs, Peter R. Crowther, 2001-03-05 Palaeobiology A Synthesis was widely acclaimed both for its content and production quality Ten years on Derek Briggs and Peter Crowther have once again brought together over 150 leading authorities from around the world to produce Palaeobiology II Using the same successful formula the content is arranged as a series of concise articles taking a thematic approach to the subject rather than treating the various fossil groups systematically This entirely new book with its diversity of new topics and over 100 new contributors reflects the exciting developments in the field including accounts of spectacular newly discovered fossils and embraces data from other disciplines such as astrobiology geochemistry and genetics Palaeobiology II will be an invaluable resource not only for palaeontologists but also for students and researchers in other branches of the earth and life sciences Written by an international team of recognised authorities in the field Content is concise but informative Demonstrates how palaeobiological studies are at the heart of a range of scientific themes

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

The Anthropology of Extinction Genese Marie Sodikoff,2012 The Anthropology of Extinction offers compelling explorations of issues of widespread concern

Encyclopedia of Biodiversity ,2013-02-05 The 7 volume Encyclopedia of Biodiversity Second Edition maintains the reputation of the highly regarded original presenting the most current information available in this globally crucial area of research and study It brings together the dimensions of biodiversity and examines both the services it provides and the measures to protect it Major themes of the work include the evolution of biodiversity systems for classifying and defining biodiversity ecological patterns and theories of biodiversity and an assessment of contemporary patterns and trends in biodiversity The science of biodiversity has become the science of our future It is an interdisciplinary field spanning areas of both physical and life sciences Our awareness of the loss of biodiversity has brought a long overdue appreciation of the magnitude of this loss and a determination to develop the tools to protect our future Second edition includes over 100 new articles and 226 updated articles covering this multidisciplinary field from evolution to habits to economics in 7 volumes The editors of this edition are all well respected instantly recognizable academics operating at the top of their respective fields in biodiversity research readers can be assured that they are reading material that has been meticulously checked and reviewed by experts Approximately 1 800 figures and 350 tables complement the text and more than 3 000 glossary entries explain key terms

Understanding the Cultural Landscape Bret Wallach,2005-01-02 This compelling book offers a fresh perspective on how the natural world has been imagined built on and transformed by human beings throughout history and around the globe Coverage ranges from the earliest societies to preindustrial China and India from the emergence in Europe of the modern world to the contemporary global economy The focus is on what the places we have created say about us our belief systems and the ways we make a living Also explored are the social and environmental consequences of human activities and how conflicts over the meaning of progress are reflected in today s urban rural and suburban landscapes Written in a highly engaging style this ideal undergraduate level human geography text is illustrated with over 25 maps and

70 photographs Note Visit www.greatmirror.com for many additional photographs by Bret Wallach related to the themes addressed in this book

Proceedings RMRS., 1998 **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 *Connecting Mountain Islands and Desert Seas*, 2005 **Macroecology: Concepts and Consequences** British Ecological Society. Symposium, 2003-08 Macroecology Concepts and Consequences brings together for the first time major researchers in the field to present overviews of current thinking about the form and determinants of macroecological patterns Each section presents different viewpoints on the answer to a key question in macroecology such as why are most species rare why are most species small bodied and why are most species restricted in their distribution **Foundations of the Earth** H.H. Shugart, 2014-07-08 Where were you when I laid the foundation of the earth God asks Job in the Whirlwind Speech but Job cannot reply This passage which some environmentalists and religious scholars treat as a green creation myth drives renowned ecologist H H Shugart's extraordinary investigation in which he uses verses from God's speech to Job to explore the planetary system animal domestication sea level rise evolution biodiversity weather phenomena and climate change Shugart calls attention to the rich resonance between the Earth's natural history and the workings of religious feeling the wisdom of biblical scripture and the arguments of Bible ethicists The divine questions that frame his study are quintessentially religious and the global changes humans have wrought on the Earth operate not only in the physical chemical and biological spheres but also in the spiritual realm Shugart offers a universal framework for recognizing and confronting the global challenges humans now face the relationship between human technology and large scale environmental degradation the effect of invasive species on the integrity of ecosystems the role of humans in generating wide biotic extinctions and the future of our oceans and tides **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 Encyclopedia of Quaternary Science Cary Mock,2013-03-25 The second revised edition of the Encyclopedia of Quaternary Science Four Volume Set provides both students and professionals with an up to date reference work on this important and highly varied area of research There are lots of new articles and many of the articles that appeared in the first edition have been updated to reflect advances in knowledge since 2006 when the original articles were written The second edition will contain about 375 articles written by leading experts around the world This major reference work is richly illustrated with more than 3 000 illustrations most of them in colour Research in the Quaternary sciences has advanced greatly in the last 10 years especially since topics like global climate change geologic hazards and soil erosion were put high on the political agenda This second edition builds upon its award winning predecessor to provide the reader assured quality along with essential updated coverage Contains 357 broad ranging articles 4310 pages written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource for information in the field Facilitates teaching and learning The first edition was regarded by many as the most significant single overview of Quaternary science ever yet Editor in Chief Scott Elias has managed to surpass that in this second edition by securing even more expert reviews whilst retaining his renowned editorial consistency that enables readers to navigates seamlessly from one unfamiliar topic to the next *Whales, Whaling, and Ocean Ecosystems* James A. Estes,2006 A must read for anyone interested in the ecology of whales this timely and creative volume is sure to stimulate new research for years to come Annalisa Berta San Diego State University **Of Books and Beasts** Matt Bille,2021-12-02 In the controversial field of cryptozoology plagued by long lost accounts and internet fantasies the essential core of usable information is largely maintained in books Science writer and cryptozoology researcher Matt Bille offers 400 reviews of significant books in cryptozoology supporting sciences like biology and cryptozoological fiction Matt s selections based on 45 years of reading and writing on zoology and cryptozoology favor reliable science and history providing an essential foundation for enthusiasts and skeptics alike The search for unknown animals starts here Looking for a concise but reliable survey of the most noteworthy cryptozoological books past and present Look no further here it is Dr Karl P N Shuker Zoologist Extinction and Biogeography of Tropical Pacific Birds David W. Steadman,2006-10-15 Publisher Description **Stochastic Population Dynamics in Ecology and Conservation** Russell Lande,Steinar Engen,Bernt-Erik Sæther,2003 All populations fluctuate stochastically creating a risk of extinction that does not exist in deterministic models with fundamental consequences for both pure and applied ecology This book provides the most comprehensive introduction to

stochastic population dynamics combining classical background material with a variety of modern approaches including new and previously unpublished results by the authors illustrated with examples from bird and mammal populations and insect communities Demographic and environmental stochasticity are introduced with statistical methods for estimating them from field data The long run growth rate of a population is explained and extended to include age structure with both demographic and environmental stochasticity Diffusion approximations facilitate the analysis of extinction dynamics and the duration of the final decline Methods are developed for estimating delayed density dependence from population time series using life history data Metapopulation viability and the spatial scale of population fluctuations and extinction risk are analyzed Stochastic dynamics and statistical uncertainty in population parameters are incorporated in Population Viability Analysis and strategies for sustainable harvesting Statistics of species diversity measures and species abundance distributions are described with implications for rapid assessments of biodiversity and methods are developed for partitioning species diversity into additive components Analysis of the stochastic dynamics of a tropical butterfly community in space and time indicates that most of the variance in the species abundance distribution is due to ecological heterogeneity among species so that real communities are far from neutral Throwing Fire Alfred W. Crosby, 2002-04-08 Historian Alfred W Crosby looks at hard accurate throwing and the manipulation of fire as unique human capabilities Humans began throwing rocks in prehistory and then progressed to javelins atlatls bows and arrows We learned to make fire by friction and used it to cook drive game burn out rivals and alter landscapes In historic times we invented catapults trebuchets and such flammable liquids as Greek Fire About 1 000 years ago we invented gunpowder which accelerated the rise of empires and the advance of European imperialism In the 20th century gunpowder weaponry enabled us to wage the most destructive wars of all time peaking at the end of World War II with the V 2 and atomic bomb Today we have turned our projectile talents to space travel which may make it possible for our species to migrate to other bodies of our solar system and even other star systems

Native Americans and the Environment Michael Eugene Harkin, David Rich Lewis, 2007-01-01 Often cited as one of the most decisive campaigns in military history the Seven Days Battles were the first campaign in which Robert E Lee led the Army of Northern Virginia as well as the first in which Lee and Thomas Stonewall Jackson worked together

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web dec 3 2019 lovehoney online only retailer lovehoney launched its first pop up store in covent garden marketing week announced recently a huge pick and mix wall setup

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web oct 23 2023 our fave and yes we have tried a few is the jingle balls nog sloshed together with cognac cream sherry almond milk cream egg vanilla and nutmeg don t

dining calendar holiday pop ups cooking classes and more - Jun 08 2021

web 2 days ago pop up stores are ideal places to spend quality time with anyone without any pressure he said another 23 year old pop up store enthusiast surnamed kang agreed

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web 3 hours ago on wednesday december 6 two of the bay area s hottest pop ups will join forces for a holiday themed event hadeem and four kings both of which launched this

hot bay area pop ups join forces for a jewish cantonese - Nov 13 2021

web 11 hours ago 9 christmas events to book in london from markets to culinary pop ups it might only be early november but the indulgent season is fast approaching and many

fun things to do in singapore pop ups new - Sep 04 2023

web tuesday 15 december 2020 deck the bars with boughs of holly it s time to toast to the end of the year finally with some festive tipples while we can t be sipping mulled wine

rotis roll ups and ruckus serving up eclectic eats at - Jan 04 2021

web mon 06 november 2023 19 00 tottenham hotspur we can confirm the starting line ups for our premier league clash with chelsea this evening kick off 8pm uk there s good

the best winter pop ups spreading christmas cheer 2022 - Nov 25 2022

web nov 25 2022 the cosiest winter pop ups in london stay toasty and content at these cosy winter london pop ups written by kate lloyd ellie walker arnott alex sims

8 cosy winter pop ups in london cosiest events in london - Jul 22 2022

web nov 21 2022 adopted from nyc miracle is now a firm favourite among london s christmas pop ups hidden away on the mezzanine floor of the henrietta hotel in

best christmas pop ups in the city square mile - Feb 14 2022

web dec 31 2022 the fabulous world of dior at harrods celebrating a 70 year friendship luxury fashion house dior and knightsbridge s harrods have teamed up to create a

from wishmas to truffles best pop ups to visit in november - Dec 27 2022

web nov 2 2023 its first ever christmas pop up promises two floors of curated wares from the likes of hum london domenica marland and colours or arley plus wreath making

popular christmas gifts in 2023 that will sell out cool trendy - Sep 11 2021

web nov 2 2023 both holiday pop ups will kick off on friday november 24 with pufferfish going full bore through dec 30 tin widow s festivities will wrap up on new year s eve

jual pop up christmas harga kualitas terbaik ruparupa - Jul 30 2020

5 best christmas pop ups to have a drink at this holiday - Aug 03 2023

web friday july 21 2023 consider it christmas in july the team behind two of the best holiday pop up bars in the city miracle on 9th street and sippin santa s surf shack have

best winter pop ups in london you can t miss this 2023 - Dec 15 2021

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this cheap hacking device can crash your iphone with pop ups - Dec 03 2020

web cek dan beli di sini jual pop up christmas kualitas terjamin pop up christmas dijual dengan harga terbaik cicilan 0 banyak potongan harga dari official store

holiday pop up shop how and why to open one this season - Jun 20 2022

web nov 21 2019 just like micro breweries veganism and well brexit pop ups has become a bit of a buzz word as of late actually it does every year during the all consuming run up

london s best winter drinks pop ups 2023 londonist - May 20 2022

web nov 6 2015 christmas lights food hunt oxford circus on mon 13th nov 2023 wed 31st jan 2024 from a christmas lights hunt to a festive displays trail complete with food

pop up christmas bar set to take over fort collins restaurant msn - Apr 18 2022

web on the hunt for a christmas pop up near covent garden the log cabin at the montague hotel is a real winner for 2023 the gorgeous terrace will be transformed into a hub

the best november interiors pop ups and markets for early bird - Aug 23 2022

web nov 1 2023 the christmas themed pop up cocktail bar will serve up kitschy decor and themed holiday cocktails miracle started in new york city in 2014 and has hosted pop

twice as nice milwaukee to host both miracle and sippin santa - May 08 2021

web 24 minutes ago each roll up comes layered with rice lettuce tomatoes a delightfully bright salsa verde drizzle a garlicky white sauce and fried shallots the first bite and each

eight creative christmas pop up shops econsultancy - Mar 30 2023

web nov 30 2022 london is particularly magical around this time of year alongside the christmas markets the twinkling lights and the outdoor ice rinks the city also plays host

christmas fairs and pop ups in singapore to check out this - Oct 05 2023

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christmas pop ups 15 things to do in london this december - Oct 13 2021

web nov 1 2023 miracle holiday cocktail pop up at the oakland and dragonfly fancy fun and festival holiday cocktails and glassware return for this monthlong residency at this

weekender pop up store on a date the korea herald - Feb 02 2021

web dec 2 2022 discover the best christmas songs of all time ariana grande best christmas songs christmas christmas 2022
george michael gwen stefani justin

several christmas themed pop up bars open soon in pittsburgh - Jan 28 2023

web oct 6 2022 pop ups are trendy temporary and showing up everywhere these days especially during the holiday season
cocktail bars in particular are having a moment

christmas pop up ideas to increase your holiday sales - Apr 30 2023

web oct 31 2023 glass onion vintage pop up vintage clothing extraordinaire glass onion will be bringing its pop ups back to
east london this november renowned for offering

9 christmas events in london to book including christmas markets - Jul 10 2021

web oct 30 2023 other miracle pop ups are at the citizens trust in columbus and the overlook lodge in cincinnati i am on
cleveland com s life and culture team and cover

locations miracle - Apr 06 2021

web 2 days ago tiny hacking tool flipper zero can easily crash iphones the flipper zero is a versatile hacking tool designed
for security researchers the pocket size pen testing

christmas pop up templates do it yourself pop up - Feb 26 2023

web jul 28 2023 000 famed christmas themed cocktail pop up bars and sippin santa are thrilled to announce their return for
the 2023 season featuring festive original cocktails

holiday themed miracle pop up bar coming to cleveland msn - Mar 06 2021

web with the snowman inflatable you can bring frosty the snowman to life right in your own yard these delightful inflatables
come in a range of sizes giving you the opportunity to

confirmed line ups spurs vs chelsea tottenham hotspur - Aug 30 2020

holiday bars miracle and sippin santa announce 2023 return - Jun 01 2023

web 1 day ago tipsy elf is a ticketed pop up bar also opening on nov 24 the bar promises to be overflowing with holly jolly
christmas spirit from its over the top decor to its festive

the best funny christmas inflatables for 2023 joyfy - Nov 01 2020

best christmas pop songs an essential seasonal playlist - Oct 01 2020

50 very best christmas events london 2023 designmynight - Jan 16 2022

web nov 3 2023 stanley quencher h2 0 flowstate tumbler lovingly known as the internet s emotional support water bottle
stanley s quencher h2 0 flowstate tumbler promises

holiday pop up bars miracle sippin santa announce 2023 - Oct 25 2022

web oct 12 2023 pop up shops are any short term temporary that take place during the winter holiday season this is used to
build brand awareness test new markets and increase