

# Extinction

Jon Erickson

*The Sixth Extinction* Elizabeth Kolbert, 2014-02-11 ONE OF THE NEW YORK TIMES BOOK REVIEW'S 10 BEST BOOKS OF THE YEAR A major book about the future of the world, blending intellectual and natural history and field reporting into a powerful account of the mass extinction unfolding before our eyes Over the last half a billion years, there have been five mass extinctions, when the diversity of life on earth suddenly and dramatically contracted. Scientists around the world are currently monitoring the sixth extinction, predicted to be the most devastating extinction event since the asteroid impact that wiped out the dinosaurs. This time around, the cataclysm is us. In *The Sixth Extinction*, two-time winner of the National Magazine Award and New Yorker writer Elizabeth Kolbert draws on the work of scores of researchers in half a dozen disciplines, accompanying many of them into the field: geologists who study deep ocean cores, botanists who follow the tree line as it climbs up the Andes, marine biologists who dive off the Great Barrier Reef. She introduces us to a dozen species, some already gone, others facing extinction, including the Panamanian golden frog, staghorn

coral, the great auk, and the Sumatran rhino. Through these stories, Kolbert provides a moving account of the disappearances occurring all around us and traces the evolution of extinction as concept, from its first articulation by Georges Cuvier in revolutionary Paris up through the present day. The sixth extinction is likely to be mankind's most lasting legacy; as Kolbert observes, it compels us to rethink the fundamental question of what it means to be human.

*The Sixth Extinction* Elizabeth Kolbert, 2014-01-01 Over the last half billion years, there have been five major mass extinctions, when the diversity of life on Earth suddenly and dramatically contracted. Scientists are currently monitoring the sixth extinction, predicted to be the most devastating since the asteroid impact that wiped out the dinosaurs. This time around the cataclysm is us. In this book the author tells us why and how human beings have altered life on the planet in a way no species has before. She provides a moving account of the disappearances of various species occurring all around us and traces the evolution of extinction as concept, from its first articulation by Georges Cuvier in revolutionary Paris up to Lyell and Darwin, and through the present day. The sixth extinction is likely to

be mankind's most lasting legacy, compelling us to rethink the fundamental question of what it means to be human. -- Back cover.

**The Mass-Extinction Debates** William Glen, 1994 This book examines the arguments and behavior of the scientists who have been locked in conflict over two competing theories to explain why, 65 million years ago, most life on earth—including the dinosaurs—perished.

**Extinction** Ashley Dawson, 2016-08-01 Some thousands of years ago, the world was home to an immense variety of large mammals. From woolly mammoths and saber-toothed tigers to giant ground sloths and armadillos the size of automobiles, these spectacular creatures roamed freely. Then human beings arrived. Devouring their way down the food chain as they spread across the planet, they began a process of voracious extinction that has continued to the present. Headlines today are made by the existential threat confronting remaining large animals such as rhinos and pandas. But the devastation summoned by humans extends to humbler realms of creatures including beetles, bats and butterflies. Researchers generally agree that the current extinction rate is nothing short of catastrophic. Currently

the earth is losing about a hundred species every day. This relentless extinction, Ashley Dawson contends in a primer that combines vast scope with elegant precision, is the product of a global attack on the commons, the great trove of air, water, plants and creatures, as well as collectively created cultural forms such as language, that have been regarded traditionally as the inheritance of humanity as a whole. This attack has its genesis in the need for capital to expand relentlessly into all spheres of life. Extinction, Dawson argues, cannot be understood in isolation from a critique of our economic system. To achieve this we need to transgress the boundaries between science, environmentalism and radical politics. Extinction: A Radical History performs this task with both brio and brilliance.

Extinction Bad Genes Or Bad Luck David Raup, 1992-11-03 The science of extinction is a lively and moveable feast of scientific speculation and research. Scientist/author David Raup takes the subject of nature's disappearing act to task, covering everything from the Ice Age Blitzkreig to the fate of the marshes on Martha's Vineyard, the extinction of flying reptiles to mankind's impact on tropical reefs. Graphs.

**The Sixth Extinction (young readers adaptation)** Elizabeth Kolbert,2024-02-06 In this young readers adaptation of the New York Times-bestselling, Pulitzer Prize-winning *The Sixth Extinction*, Elizabeth Kolbert tells us why and how human beings have altered life on the planet in a way no species has before. Over the last half-billion years, there have been five mass extinctions, when the diversity of life on earth suddenly and dramatically contracted. Scientists around the world are monitoring the sixth extinction, predicted to be the most devastating extinction event since the asteroid impact that wiped out the dinosaurs. Adapting from her New York Times-bestselling, Pulitzer Prize-winning adult nonfiction, Elizabeth Kolbert explores how humans are altering life on Earth.

**Extinction** Steve Parker,2013 A highly readable introduction to the causes of extinction, the different types of extinction, and how relevant it is to the world today More than 999 of every 1,000 species that have ever lived on the planet have become extinct. As part of evolution, extinction of the old allows emergence of the new. It is integral to the Earth's continually changing range and richness of life forms. This book discusses today's key issues, from biodiversity and conservation to the threat

of human extinction, and explores the major extinction events of the past, explaining how scientists know all this. Throughout the book there are engaging extinction case studies from around the world showing, for example, how local extinctions such as the large blue butterfly can be reversed. Presenting the latest research in an accessible and engaging way, this is a complete introduction to an important and often complex subject.

**The Sixth Extinction** Terry Glavin, 2014-06-10 The Sixth Extinction is a haunting account of the age in which we live. Ecologists are calling it the Sixth Great Extinction, and the world isn't losing just its ecological legacy; also vanishing is a vast human legacy of languages and our ways of living, seeing, and knowing. Terry Glavin confirms that we are in the midst of a nearly unprecedented, catastrophic vanishing of animals, plants, and human cultures. He argues that the language of environmentalism is inadequate in describing the unraveling of the vast system in which all these extinctions are actually related. And he writes that we're no longer gaining knowledge with every generation. We're losing it. In the face of what he describes as a dark and gathering sameness upon

the Earth, Glavin embarks on a global journey to meet the very things we're losing (a distinct species every ten minutes, a unique vegetable variety every six hours, an entire language every two weeks) and on the way encounters some of the world's wonderful, rare things: a human-sized salmon in Russia; a mysterious Sino-Tibetan song-language; a Malayan tiger, the last of its kind; and a strange tomato that tastes just like black cherry ice cream. And he finds hope in the most unlikely places---a macaw roost in Costa Rica; a small village in Ireland; a relic community of Norse whalers in the North Atlantic; the vault beneath the Royal Botanical Garden at Kew; and the throne room of the Angh of Longwa in the eastern Himalayas. A fresh narrative take on the usual doom and gloom environmentalism, *The Sixth Extinction* draws upon zoology, biology, ecology, anthropology, and mythology to share the joys hidden within the long human struggle to conserve the world's living things. Here, we find hope in what's left: the absolute and stunning beauty in the Earth's last cultures and creatures.

**Extinction: A Very Short Introduction** Paul B. Wignall, 2019-06-27 Most people are familiar with the



dodo and the dinosaur, but extinction has occurred throughout the history of life, with the result that nearly all the species that have ever existed are now extinct. Today, species are disappearing at an ever increasing rate, whilst past losses have occurred during several great crises. Issues such as habitat destruction, conservation, climate change, and, during major crises, volcanism and meteorite impact, can all contribute towards the demise of a group. In this Very Short Introduction, Paul B. Wignall looks at the causes and nature of extinctions, past and present, and the factors that can make a species vulnerable. Summarising what we know about all of the major and minor extinction events, he examines some of the greatest debates in modern science, such as the relative role of climate and humans in the death of the Pleistocene megafauna, including mammoths and giant ground sloths, and the roles that global warming, ocean acidification, and deforestation are playing in present-day extinctions

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ideas, and enthusiasm to make interesting and challenging topics highly readable.

*Dodging Extinction* Anthony D. Barnosky, 2014-10-01 Paleobiologist Anthony D. Barnosky weaves together evidence from the deep past and the present to alert us to the looming Sixth Mass Extinction and to offer a practical, hopeful plan for avoiding it. Writing from the front lines of extinction research, Barnosky tells the overarching story of geologic and evolutionary history and how it informs the way humans inhabit, exploit, and impact Earth today. He presents compelling evidence that unless we rethink how we generate the power we use to run our global ecosystem, where we get our food, and how we make our money, we will trigger what would be the sixth great extinction on Earth, with dire consequences. Optimistic that we can change this ominous forecast if we act now, Barnosky provides clear-cut strategies to guide the planet away from global catastrophe. In many instances the necessary technology and know-how already exist and are being applied to crucial issues around human-caused climate change, feeding the world's growing population, and exploiting natural resources. Deeply informed yet accessibly written, *Dodging Extinction* is nothing short of a guidebook for saving the

planet.

*De-Extinction* Rebecca E. Hirsch, 2017-04-01 In the twenty-first century, because of climate change and other human activities, many animal species have become extinct, and many others are at risk of extinction. Once they are gone, we cannot bring them back—or can we? With techniques such as cloning, scientists want to reverse extinction and return lost species to the wild. Some scientists want to create clones of recently extinct animals, while others want to make new hybrid animals. Many people are opposed to de-extinction. Some critics say that the work diverts attention from efforts to save species that are endangered. Others say that de-extinction amounts to scientists playing God. Explore the pros and cons of de-extinction and the cutting-edge science that makes it possible.

The Sixth Extinction Richard E. Leakey, 1996-10-01 Richard Leakey, One Of The World's Foremost Experts On Man's Evolutionary Past, Now Turns His Eye To The Future And Doesn't Like What He Sees. To the philosophical the earth is eternal, while the human race -- presumptive keeper of the world's history -- is a mere speck in the rich stream of life. It is known that nothing upon Earth is

forever; geography, climate, and plant and animal life are all subject to radical change. On five occasions in the past, catastrophic natural events have caused mass extinctions on Earth. But today humans stand alone, in dubious distinction, among Earth's species: Homo Sapiens possesses the ability to destroy entire species at will, to trigger the sixth extinction in the history of life. In *The Sixth Extinction*, Richard Leakey and Roger Lewin consider how the grand sprawl of human life is inexorably wreaking havoc around the world. The authors of *Origins* and *Origins Reconsidered*, unimpeachable authorities on the human fossil record, turn their attention to the most uncharted anthropological territory of all: the future, and man's role in defining it. According to Leakey and Lewin, man and his surrounding species are end products of history and chance. Now, however, humans have the unique opportunity to recognize their influence on the global ecosystem, and consciously steer the outcome in order to avoid triggering an unimaginable upheaval.

**Quaternary Extinctions** Paul S. Martin, Richard G. Klein, 1989-01-01 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. ÑGeological Magazine May be regarded as a kind of standard encyclopedia for Pleistocene vertebrate paleontology for years to come. ÑAmerican Scientist Should be read by paleobiologists, biologists, wildlife managers, ecologists, archeologists, and anyone concerned about the ongoing extinction of plants and animals. ÑScience Uncommonly readable and varied for watchers of paleontology and the rise of humankind. ÑScientific 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. ÑNature 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. ÑAmerican Anthropologist

*The 6th Extinction* Elizabeth Kolbert, 2015-01-06 WINNER OF THE PULITZER PRIZE ONE OF THE NEW YORK TIMES BOOK REVIEW'S 10 BEST BOOKS OF THE YEAR A NEW YORK TIMES BESTSELLER A NATIONAL BOOK CRITICS CIRCLE AWARD FINALIST A major book about the future of the world, blending intellectual and natural history and field reporting into a powerful account of the mass extinction unfolding before our eyes Over the last half-billion years, there have been Five mass extinctions, when the diversity of life on earth suddenly and dramatically contracted. Scientists around the world are currently monitoring the sixth extinction, predicted to be the most devastating extinction event since the asteroid impact that wiped out the dinosaurs. This time around, the cataclysm is us. In prose that is at once frank, entertaining, and deeply informed, New Yorker writer Elizabeth Kolbert tells us why and how human beings have altered life on the planet in a way no species has before. Interweaving research in half a dozen disciplines, descriptions of the fascinating species that have already been lost, and the history of extinction as a concept, Kolbert provides a

moving and comprehensive account of the disappearances occurring before our very eyes. She shows that the sixth extinction is likely to be mankind's most lasting legacy, compelling us to rethink the fundamental question of what it means to be human.

**Extinction Horizon** Nicholas Sansbury Smith, 2017-02-14 USA Today bestseller Nicholas Sansbury Smith's first book in his thrilling post-apocalyptic series about one man's mission to save the world. Master Sergeant Reed Beckham has led his Delta Force Team, codenamed Ghost, through every kind of hell imaginable and never lost a man. When a top secret Medical Corps research facility goes dark, Team Ghost is called in to face their deadliest enemy yet--a variant strain of Ebola that turns men into monsters. After barely escaping with his life, Beckham returns to Fort Bragg in the midst of a new type of war. As cities fall, Team Ghost is ordered to keep CDC virologist Dr. Kate Lovato alive long enough to find a cure. What she uncovers will change everything. Total extinction is just on the horizon, but will the cure be worse than the virus? Extinction is just on the horizon... Start reading the book that D. J. Molles said delivers unrelenting unmerciful action before it's too late! The Extinction Cycle: Book 1:

Extinction HorizonBook 2: Extinction EdgeBook 3: Extinction AgeBook 4: Extinction EvolutionBook 5:  
Extinction EndBook 6: Extinction Aftermath Book 7: Extinction War

Extinction Douglas H. Erwin, 2006 The animals we find today in a tidepool reflect the winners and losers of an event 250 million years ago when the Earth suffered the greatest biotic crisis in its history, with some 95% of all living species being wiped out. This text explores the possible causes of this mass extinction.

Catastrophic Thinking David Sepkoski, 2020-09-24 A history of scientific ideas about extinction that explains why we learned to value diversity as a precious resource at the same time as we learned to “think catastrophically” about extinction. We live in an age in which we are repeatedly reminded—by scientists, by the media, by popular culture—of the looming threat of mass extinction. We’re told that human activity is currently producing a sixth mass extinction, perhaps of even greater magnitude than the five previous geological catastrophes that drastically altered life on Earth. Indeed, there is a very real concern that the human species may itself be poised to go the way of the dinosaurs, victims of



the most recent mass extinction some 65 million years ago. How we interpret the causes and consequences of extinction and their ensuing moral imperatives is deeply embedded in the cultural values of any given historical moment. And, as David Sepkoski reveals, the history of scientific ideas about extinction over the past two hundred years—as both a past and a current process—is implicated in major changes in the way Western society has approached biological and cultural diversity. It seems self-evident to most of us that diverse ecosystems and societies are intrinsically valuable, but the current fascination with diversity is a relatively recent phenomenon. In fact, the way we value diversity depends crucially on our sense that it is precarious—that it is something actively threatened, and that its loss could have profound consequences. In *Catastrophic Thinking*, Sepkoski uncovers how and why we learned to value diversity as a precious resource at the same time as we learned to think catastrophically about extinction.

The Fall of the Wild Ben A. Minteer, 2018-12-11 The passenger pigeon, the great auk, the Tasmanian tiger—the memory of these vanished species haunts the fight against extinction. Seeking to

save other creatures from their fate in an age of accelerating biodiversity loss, wildlife advocates have become captivated by a narrative of heroic conservation efforts. A range of technological and policy strategies, from the traditional, such as regulations and refuges, to the novel—the scientific wizardry of genetic engineering and synthetic biology—seemingly promise solutions to the extinction crisis. In *The Fall of the Wild*, Ben A. Minteer calls for reflection on the ethical dilemmas of species loss and recovery in an increasingly human-driven world. He asks an unsettling but necessary question: Might our well-meaning efforts to save and restore wildlife pose a threat to the ideal of preserving a world that isn't completely under the human thumb? Minteer probes the tension between our impulse to do whatever it takes and the risk of pursuing strategies that undermine our broader commitment to the preservation of wildness. From collecting wildlife specimens for museums and the wilderness aspirations of zoos to visions of “assisted colonization” of new habitats and high-tech attempts to revive long-extinct species, he explores the scientific and ethical concerns vexing conservation today. *The Fall of the Wild* is a nuanced treatment of the deeper moral issues underpinning the quest to save

species on the brink of extinction and an accessible intervention in debates over the principles and practice of nature conservation.

*Lost Creatures of the Earth* Jon Erickson, 2014-05-14 Presents an examination of possible phenomena that caused dramatic changes in the earth's surface that could explain periodic mass extinctions and the evolution of new species.

*X-Risk* Thomas Moynihan, 2020-10-20 How humanity came to contemplate its possible extinction. From forecasts of disastrous climate change to prophecies of evil AI superintelligences and the impending perils of genome editing, our species is increasingly concerned with the prospects of its own extinction. With humanity's future on this planet seeming more insecure by the day, in the twenty-first century, existential risk has become the object of a growing field of serious scientific inquiry. But, as Thomas Moynihan shows in *X-Risk*, this preoccupation is not exclusive to the post-atomic age of global warming and synthetic biology. Our growing concern with human extinction itself has a history. Tracing this untold story, Moynihan revisits the pioneers who first contemplated the possibility of

human extinction and stages the historical drama of this momentous discovery. He shows how, far from being a secular reprise of religious prophecies of apocalypse, existential risk is a thoroughly modern idea, made possible by the burgeoning sciences and philosophical tumult of the Enlightenment era. In recollecting how we first came to care for our extinction, Moynihan reveals how today's attempts to measure and mitigate existential threats are the continuation of a project initiated over two centuries ago, which concerns the very vocation of the human as a rational, responsible, and future-oriented being.

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