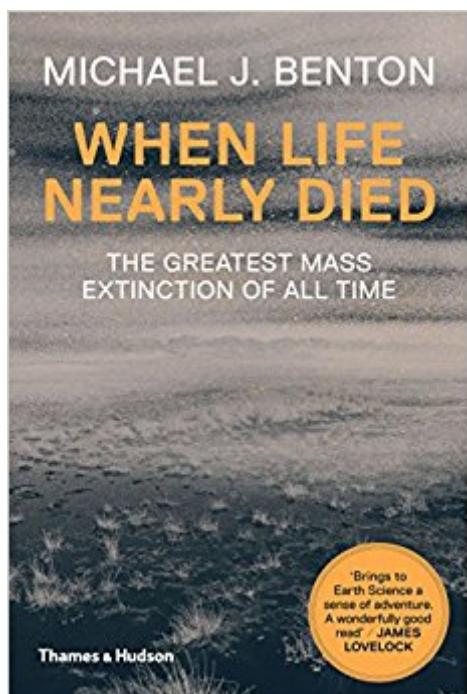


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# When Life Nearly Died: The Greatest Mass Extinction Of All Time (Revised Edition)



## Synopsis

“The focus is the most severe mass extinction known in earth’s history. The science on which the book is based is up-to-date, thorough, and balanced. Highly recommended.” •ChoiceToday it is common knowledge that the dinosaurs were wiped out by a meteorite impact 65 million years ago that killed half of all species then living. It is far less widely understood that a much greater catastrophe took place at the end of the Permian period 251 million years ago: at least ninety percent of life on earth was destroyed. *When Life Nearly Died* documents not only what happened during this gigantic mass extinction but also the recent renewal of the idea of catastrophism: the theory that changes in the earth’s crust were brought about suddenly in the past by phenomena that cannot be observed today. Was the end-Permian event caused by the impact of a huge meteorite or comet, or by prolonged volcanic eruption in Siberia? The evidence has been accumulating, and Michael J. Benton gives his verdict at the end of the volume. The new edition brings the study of the greatest mass extinction of all time thoroughly up-to-date. In the twelve years since the book was originally published, hundreds of geologists and paleontologists have been investigating all aspects of how life could be driven to the brink of annihilation, and especially how life recovered afterwards, providing the foundations of modern ecosystems.

## Book Information

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## Customer Reviews

One of the very best books I have ever read. Key word, "Nearly". This is concise, extraordinarily researched. chronicle of earth as most students or professionals, from age twelve and up with passion for the subject would find...I am one of those chronic students who "immerses" herself in reading. I highly recommend this Author as a Master of earth studies.

Good coverage of the Permian mass extinction. Includes a number of chapters on the development of the concept of the Permian, as well as the complex ecosystems at the end of the Permian. The antepenultimate chapter reviews several potential causes and advances a "synthetic" solution of a number of causes, with the first, the Siberian Traps eruptions, being the first domino to go over and trigger other others, one after another. The next chapter covers the recovery in the Early Triassic, which took an exceptionally long time, and did not happen (or last) for over 90\$ of marine and terrestrial species. I had not realized the the pervasiveness of the overall event which took out a large amount of land plants, with major groups being lost or severely reduced. The final chapter explores the idea of an potential consequences of the next extinction event, which some think we are in the beginning of. I did not find the book overly technical; it is heavily footnoted for those who would wish to go further..

Thoroughly engrossing, well written, and filled with unexpected and fascinating observations. Coverage of the book's nominal content- recent discoveries about the end Permian mass extinction- is excellent, but I especially enjoyed the discussion of those discoveries' historical context. For someone familiar with the broad outlines of contemporary thought on the end Permian event but lacking deep knowledge this was a great and surprisingly enjoyable read.

Readers should be prepared for a detailed account of the history of geology and paleontology! One can learn a lot along the way about the challenges of determining what happened a quarter of a billion years ago. While it has been clear for a long time that there was a mass extinction at the end of the Permian era, it is difficult to know what was the cause of this event, and to know how sudden it was. Was it due to the impact of a comet or asteroid, similar to that which wiped out the dinosaurs?The competing explanation is that it was due to the vast eruptions of lava in Siberia,

known as the Siberian Traps. The author seems to lean toward this explanation. Not only would these eruptions fill the atmosphere with many noxious and greenhouse gases, they might trigger eruption of the methane hydrates buried under the ocean, further upsetting the atmosphere. The whole scenario is reminiscent of what may be in store for our planet in the not too distant future, due to human-induced climate change.

... is exquisitely covered in this wonderful book. Beginning with a description of paleontological trends and personalities, and ending with a very complete description of the Permian extinction, the post extinction recovery, and a glimpse into the future of extinction, this is an EXTREMELY HIGHLY recommended book for everyone and anyone. Very readable and a very well done tome.

A clearly written and readable book giving an interpretation and possible explanation for the End-Permian mass extinction. This book describes and explains the rise of the science of Geology. Geologists disagree to an amazing extent. When Life Nearly Died includes early geologists and the foundations of their studies in order to provide a balanced and understandable description of the beginnings and development of living things. This becomes the platform from which the author gives his explanation that there was a mass extinction 251my ago and attempts to explain how and why it happened. I likked the way the Alvarez Study of the Cretaceous-Tertiary meteor impact was used to fill in the explanation of that type of catastrophic event that changed the world 65 million years ago. Read the book yourself. You'll enjoy it. JdN

This book is more about geology and how geologic standards were created than it was about the greatest mass extinction. MAYBE 20% of this book was information on the Permian mass extinction. But still worth the read, especially if you're into geology.

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