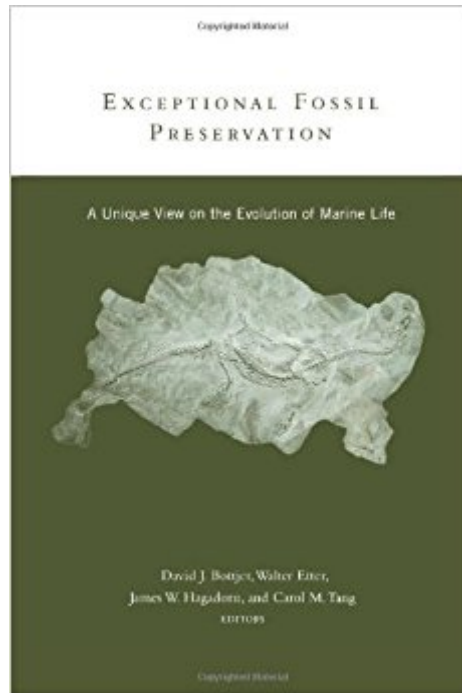




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Exceptional Fossil Preservation



Synopsis

Most nonscientists are usually aware of fossils, and it is commonly believed that they are extremely rare. In fact, fossils are exceptionally common in many sedimentary rocks and are used extensively in geology for age dating, interpretation of ancient environments, and the discovery of natural resources. However, there is another type of fossil deposit that is truly rare. These rare fossil deposits, called Lagerstätten, preserve the remains of the soft tissues or the articulated skeletal remains of ancient creatures in truly astonishing fine detail. Some of these deposits are world-famous, such as the Burgess Shale, or Solnhofen but there are others dating from many different geological eras from the Paleozoic, up to the Eocene. Recently, a concerted effort has been made to understand the overall significance of these rare fossil deposits. Whereas in the past these deposits were considered novelties, modern researchers are trying to understand what they can tell us about ancient life and environments. New sophisticated techniques (including image and geochemical analyses) are providing enormous new contributions to our knowledge of Lagerstätten sites and to paleobiology in general. This volume describes many of the most famous Lagerstätten locations worldwide and is complete with over 70 superb halftones showing some of these exotic fossils in all their glory. Paleontologists are beginning to understand why such deposits occur, how they have varied since the advent of marine metazoan life, and how their presence effects our understanding of the evolution of life in the Earth's oceans. In this way, the study of Lagerstätten continues to move towards the mainstream of paleobiological, biological, and geological research, and away from its former status as the examination of mere curiosities. All those interested in these beautiful and sometimes enigmatic deposits will want to own this book.

Book Information

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Customer Reviews

Reading Exceptional Fossil Preservations is like a refreshing slap in the face...I found myself paging through this book, thinking, 'Wow. What other cool stuff is in here?' (David Kendrick American Paleontologist)An inordinate amount of what we know about the fossil record comes from a handful of spectacular fossil sites... Each of these deposits has a unique story to tell, and this volume is here to tell them... Recommend[ed] to any serious student of paleontology who wishes to know more about a dozen and a half of the most spectacular fossil sites worldwide. (Lynne M. Clos Fossil News)Exceptional Fossil Preservation provides the reader with the opportunity to see and read about exceptional fossils that normally appear only in professional journals. (Jack's Stacks)Will do much to encourage more fieldwork by scientists and amateur fossil hunters. Exceptionally well-referenced to the technical literature. An essential reading and browsing book for all who have an interest in this fascinating subject. An exceptionally fine book. (Northeastern Naturalist)

This photographically rich volume provides a synthetic overview of a wide sample of Lagerstätten from marine environments reaching back in time to the Precambrian, more than 500 million years ago. These occurrences of exceptional fossil preservation are providing scientists with a new source of evidence to understand how life has evolved in the Earth's oceans.

This is my second time reading this book. I have no formal training in geology, paleontology or marine organisms. I just like reading about ancient life. Terms are difficult for the layperson, and I've spent some time "googling" words like bethnic, lobopod, and pyritization. I do like how the chronological chapters are broken down into specific sections, and spend time talking about the environment and specific organisms found at each conservation locale. To most, I would assume, this would be dry reading. However, if you are reading this review then you are probably a geek for fossils like me and would enjoy this very in-depth book.

The book offers a rare view into the world of exceptionally preserved fossils. From the point of view of the physical sedimentary history and preservation details the book is exceptionally good. Having

an opportunity on reporting on rare and well preserved fossils, the authors merely brush by. Too few illustrations of fossils, and many are of organisms that have been widely pictures already. With an opportunity to show relatively unknown fossil, they pass. Pictures could also have been clearer. A disappointment.

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