



The Rise of Amphibians: 365 Million Years of Evolution

By Robert Carroll



The Rise of Amphibians: 365 Million Years of Evolution By Robert Carroll

For nearly 100 million years, amphibians and their ancestors dominated the terrestrial and shallow water environments of the earth. Archaic animals with an amphibious way of life gave rise not only to modern frogs, salamanders, and caecilians but also to the ancestors of reptiles, birds, and mammals. In this landmark publication, one of the leading paleontologists of our time explores a pivotal moment in vertebrate evolution, the rise of amphibians.

Synthesizing findings from the rich and highly diverse fossil record of amphibians, Robert Carroll traces their origin back 365 million years, when particular species of fish traveled down an evolutionary pathway of fin modification that gave rise to legs. This period of dramatic radiation was followed by a cataclysmic extinction 250 million years ago. After a long gap, modern amphibian groups gradually emerged. Now the number of amphibian species and individuals throughout the tropical and temperate regions of the earth exceeds that of mammals.

The Rise of Amphibians is documented with more than two hundred illustrations of fossil amphibians and sixteen exquisite color plates depicting amphibians in their natural habitats throughout their long existence. The most comprehensive examination of amphibian evolution ever produced, *The Rise of Amphibians* is an essential resource for paleontologists, herpetologists, geologists, and evolutionary biologists.

[!\[\]\(faf942dc3e59ce8eb64b4ac481eca7e0_img.jpg\) Download The Rise of Amphibians: 365 Million Years of Evolu ...pdf](#)

[!\[\]\(cf531ed27e91483460120fcc057b3901_img.jpg\) Read Online The Rise of Amphibians: 365 Million Years of Evo ...pdf](#)

The Rise of Amphibians: 365 Million Years of Evolution

By Robert Carroll

The Rise of Amphibians: 365 Million Years of Evolution By Robert Carroll

For nearly 100 million years, amphibians and their ancestors dominated the terrestrial and shallow water environments of the earth. Archaic animals with an amphibious way of life gave rise not only to modern frogs, salamanders, and caecilians but also to the ancestors of reptiles, birds, and mammals. In this landmark publication, one of the leading paleontologists of our time explores a pivotal moment in vertebrate evolution, the rise of amphibians.

Synthesizing findings from the rich and highly diverse fossil record of amphibians, Robert Carroll traces their origin back 365 million years, when particular species of fish traveled down an evolutionary pathway of fin modification that gave rise to legs. This period of dramatic radiation was followed by a cataclysmic extinction 250 million years ago. After a long gap, modern amphibian groups gradually emerged. Now the number of amphibian species and individuals throughout the tropical and temperate regions of the earth exceeds that of mammals.

The Rise of Amphibians is documented with more than two hundred illustrations of fossil amphibians and sixteen exquisite color plates depicting amphibians in their natural habitats throughout their long existence. The most comprehensive examination of amphibian evolution ever produced, *The Rise of Amphibians* is an essential resource for paleontologists, herpetologists, geologists, and evolutionary biologists.

The Rise of Amphibians: 365 Million Years of Evolution By Robert Carroll Bibliography

- Sales Rank: #1372394 in Books
- Brand: Brand: Johns Hopkins University Press
- Published on: 2009-06-17
- Original language: English
- Number of items: 1
- Dimensions: 11.00" h x 1.20" w x 8.50" l, 3.00 pounds
- Binding: Hardcover
- 392 pages

 [Download The Rise of Amphibians: 365 Million Years of Evolu ...pdf](#)

 [Read Online The Rise of Amphibians: 365 Million Years of Evo ...pdf](#)

Download and Read Free Online The Rise of Amphibians: 365 Million Years of Evolution By Robert Carroll

Editorial Review

Review

I highly recommend *The Rise of Amphibians* to anyone interested not only in amphibians but also in the evolutionary history of vertebrates in general.

(Hans-Dieter Sues *Integrative and Comparative Biology*)

A high-quality production, with finely illustrated drawings of skulls, vertebrae, ribs, teeth, and long bones of more amphibians, past and present, than most of us imagined even existed.

(Whit Gibbons *Tuscaloosa News*)

The Rise of Amphibians should be on the bookshelf of anyone involved in vertebrate evolution... an excellent source of information... It is a first-choice reference book that stimulates further studies and research.

(Axel Janke *Systematic Biology*)

Provides a wealth of valuable information about this fascinating history in a clear, easily readable style.

(Robert R. Reisz *Quarterly Review of Biology*)

I enjoyed reading this fascinating book. It will become a landmark and standard reference in early amphibian evolution for years to come.

(Miguel Vences *Bioscience*)

A useful reference catalog for the professional or well-read amateur.

(Richard Kissel *American Paleontologist*)

This is the landmark work on the evolution of amphibians, and will be enjoyed and used for many years to come.

(Jason S. Anderson *Copeia*)

Bob Carroll is telling us, in a modern and very readable style, the history of the amphibians, with an osteological precision nobody else has. In fact, with this new book, he shows us he stays the same, our 'Master Yoda of the amphibians.'

(J. Se´Bastien Steyer *Journal of Vertebrate Paleontology*)

Carroll has excelled himself by putting together such magnificent piece of work, with information that is balanced efficiently.

(Robert Carroll *Herpetological Bulletin*)

Carroll has excelled himself by putting together such a magnificent piece of work, with information that is balanced efficiently.

(Steven Piggott *Herpetological Bulletin*)

An excellent, comprehensive overview of the diversity and evolutionary history of amphibians. It reflects a lifetime of specimen-based research on and thinking about the subject by the foremost student of early evolution of land vertebrates.

(Hans-Dieter Sues, National Museum of Natural History, Smithsonian Institution)

About the Author

Robert Carroll, professor emeritus at McGill University, was the long-time director of the Redpath Museum and chairman of the Department of Biology and is a fellow of the Royal Society of Canada. He is among the world's most highly regarded experts on the evolution of amphibians and reptiles. Carroll is the author of several books, including *Vertebrate Paleontology and Evolution*.

Users Review

From reader reviews:

Frank Craver:

Do you one of people who can't read pleasant if the sentence chained from the straightway, hold on guys that aren't like that. This The Rise of Amphibians: 365 Million Years of Evolution book is readable through you who hate those perfect word style. You will find the information here are arrange for enjoyable studying experience without leaving possibly decrease the knowledge that want to supply to you. The writer connected with The Rise of Amphibians: 365 Million Years of Evolution content conveys thinking easily to understand by a lot of people. The printed and e-book are not different in the written content but it just different by means of it. So , do you nonetheless thinking The Rise of Amphibians: 365 Million Years of Evolution is not loveable to be your top collection reading book?

Louise Best:

In this era globalization it is important to someone to find information. The information will make you to definitely understand the condition of the world. The fitness of the world makes the information quicker to share. You can find a lot of referrals to get information example: internet, newspapers, book, and soon. You will see that now, a lot of publisher that will print many kinds of book. Often the book that recommended to

your account is The Rise of Amphibians: 365 Million Years of Evolution this e-book consist a lot of the information in the condition of this world now. This book was represented how does the world has grown up. The vocabulary styles that writer make usage of to explain it is easy to understand. The writer made some analysis when he makes this book. This is why this book appropriate all of you.

Arthur Haase:

You can get this The Rise of Amphibians: 365 Million Years of Evolution by look at the bookstore or Mall. Merely viewing or reviewing it can to be your solve problem if you get difficulties for your knowledge. Kinds of this publication are various. Not only by simply written or printed but can you enjoy this book simply by e-book. In the modern era just like now, you just looking because of your mobile phone and searching what your problem. Right now, choose your own personal ways to get more information about your book. It is most important to arrange you to ultimately make your knowledge are still upgrade. Let's try to choose appropriate ways for you.

Randall Blake:

A lot of e-book has printed but it differs. You can get it by online on social media. You can choose the most beneficial book for you, science, witty, novel, or whatever by simply searching from it. It is called of book The Rise of Amphibians: 365 Million Years of Evolution. You can contribute your knowledge by it. Without leaving the printed book, it may add your knowledge and make you actually happier to read. It is most crucial that, you must aware about guide. It can bring you from one destination to other place.

Download and Read Online The Rise of Amphibians: 365 Million Years of Evolution By Robert Carroll #PENJ8KALDF9

Read The Rise of Amphibians: 365 Million Years of Evolution By Robert Carroll for online ebook

The Rise of Amphibians: 365 Million Years of Evolution By Robert Carroll Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Rise of Amphibians: 365 Million Years of Evolution By Robert Carroll books to read online.

Online The Rise of Amphibians: 365 Million Years of Evolution By Robert Carroll ebook PDF download

The Rise of Amphibians: 365 Million Years of Evolution By Robert Carroll Doc

The Rise of Amphibians: 365 Million Years of Evolution By Robert Carroll Mobipocket

The Rise of Amphibians: 365 Million Years of Evolution By Robert Carroll EPub