

# Steno's laws of stratigraphy

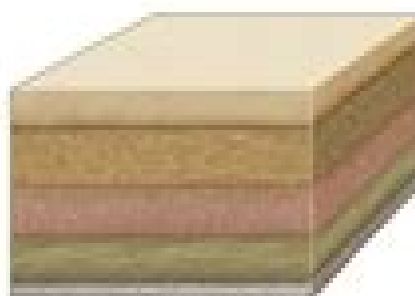
1.



## Law of superposition

Younger layers of rock sit atop older layers.

2.



A. Original orientation

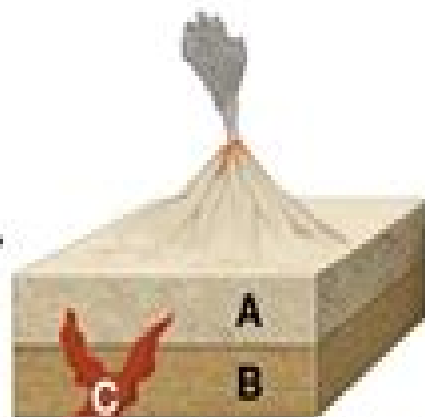


B. Orientation after tilting (folding)

## Law of original horizontality

Layers of sedimentary rock are originally deposited flat.

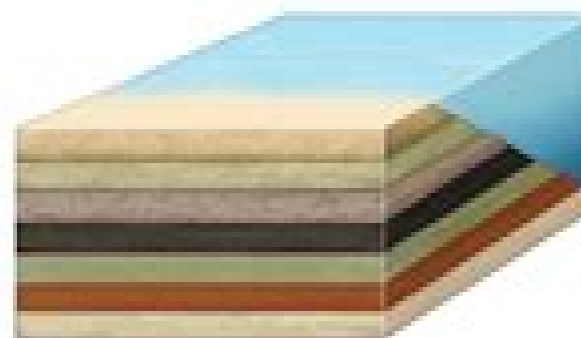
3.



## Law of cross-cutting relationships

Rock layers A and B must be older than the intrusion (C) that disturbs them.  
(Principle later reinforced by James Hutton.)

4.



## Law of lateral continuity

Layers of rock are continuous until they encounter other solid bodies that block their deposition or until they are acted upon by agents that appeared after deposition took place.

# Stratigraphy Life History

**Leslie Stephen**



## **Stratigraphy Life History:**

Stratigraphy and Life History Marshall Kay, Edwin Harris Colbert, 1965      The Student's Handbook of Historical Geology Alfred John Jukes-Browne, 1886      *Stratigraphy and Life History* Marshall Kay, Edwin H. Colbert,      *Regional Stratigraphy of North America* W.J. Frazier, D.R. Schwimmer, 2013-11-11 An early reviewer of this book stated that he had difficulty assessing its marketability because it falls between the cracks of geological literature We have designed this book to meet a need of modern geology namely a single source providing both detailed and synoptic stratigraphy of the various regions of North America through geological time Shortly after beginning work on such a book we realized why it had not yet been written it required six years of effort assimilation of an incredible amount of information and two years additional work to cut the volume down to publishable size Further by the time the final chapter was written the first few were already out of date Nevertheless the book lies in front of you It is intended to serve several purposes As a textbook it will serve the following courses Regional stratigraphy Sedimentary tectonics Regional tectonics Advanced historical geology Survey level paleontology Obviously not all portions of the book are relevant to all of the above courses We assume the reader will retain this book after the particular course is done and will use it as a reference book Hopefully others will obtain the book solely for reference purposes We believe it will be especially useful for the working geologist or academic geologist seeking generalized and some moderately detailed information about a region or geological time interval which is unfamiliar

**Principles of Stratigraphy** Amadeus William Grabau, 1913      *Stratigraphic Reservoir Characterization for Petroleum Geologists, Geophysicists, and Engineers* Roger M. Slatt, 2013-11-21      **Agency in Archaeology** Marcia-Anne Dobres, John Robb, 2000 Nineteen internationally renowned scholars discuss nine theoretically based case studies ranging in subject from the late Pleistocene hunter gatherers to the restructuring of gender relations in the US Essential reading for all archaeologists      **Stratigraphy: A Modern Synthesis** Andrew D. Miall, 2022-03-02 The updated textbook is intended to serve as an advanced and detailed treatment of the evolution of the subject of stratigraphy from its disparate beginnings as separate studies of sedimentology lithostratigraphy chronostratigraphy etc into a modern integrated discipline in which all components are necessary There is a historical introduction which now includes information about the timeline of the evolution of the components of modern stratigraphy The elements of the various components facies analysis sequence stratigraphy mapping methods chronostratigraphic methods etc are outlined and a chapter discussing the modern synthesis is included near the end of the book which closes with a discussion of future research trends in the study of time as preserved in the stratigraphic record      *Applied Palaeontology* Robert Wynn Jones, 2006-05-04 This book was first published in 2006 Palaeontology has developed from a descriptive science to an analytical science used to interpret relationships between earth and life history Applied Palaeontology adopts a holistic integrated approach to palaeontology highlighting its key role in the study of the evolving earth life history and environmental processes After an introduction to fossils and their

classification each of the principal fossil groups are studied in detail covering their biology morphology classification palaeobiology and biostratigraphy The latter sections focus on the applications of fossils in the interpretation of earth and life processes and environments It concludes with case histories of how our knowledge of fossils is applied in industry and elsewhere This is a valuable reference for anyone involved in the applications of palaeontology including earth life and environmental scientists and petroleum minerals mining and engineering professionals Encyclopedia of Ecology and Environmental Management ,2009-07-15 The Encyclopedia of Ecology and Environmental Management addresses the core definitions and issues in pure and applied ecology It is neither a short entry dictionary nor a long entry encyclopedia but lies somewhere in between The mixture of short entry definitions and long entry essays gives a comprehensive and up to date alphabetical guide to over 3000 topics and allows any subject to be accessed to varying levels of detail while the longer entries provide general reviews of subjects the short definitions provide specific details on more specialised areas An important feature of the Encyclopedia which sets it apart from other similar works is the comprehensive cross referencing The most comprehensive and up to date reference work in pure and applied ecology Definitions cover the entire spectrum of pure and applied ecological research Distinguished editorial board Dr Peter Moore Professor John Grace Professor Bryan Shorrocks Professor Steven Stearns Professor Don Falk International team of distinguished authors over 200 contributors from 20 countries 3000 headwords defined Over 250 long entries review major topics Heavily illustrated with a section of colour plates Complete one volume guide to pure and applied ecology Presents cutting edge definitions in emerging fields as well as grounding in well established areas of ecology *Dictionary of Scientific Biography: Pierre Abailard-Christoph Buys Ballot* Charles Coulston Gillispie, Frederic Lawrence Holmes, American Council of Learned Societies, 1981 *Manual of Micropaleontological Stratigraphy* McLean Paleontological Laboratory, 1963 *Global Geological Record of Lake Basins: Volume 1* E. Gierlowski-Kordesch, K. Kelts, 2006-11-23 The sequence of sediments deposited in lakes forms an archive of a high resolution record of the changes and rates of changes in continental palaeoenvironments Global Geological Record of Lake Basins is the first in a short series of books containing concise geological summaries of lake basin deposits Geoscientists worldwide have co operated to bring together the information available on a global spectrum of lacustrine deposits looking in particular at palaeoenvironmental aspects The compilation has resulted from IGCP 219 Comparative Lacustrine Sedimentology in Space and Time which has given impetus to the field of limnogeology Lacustrine deposits are widespread throughout the geological record and this series of books will assess for every geological time window key lacustrine sequences worldwide in the form of short summaries of specific deposits A common language will be defined to describe these deposits Principles of Stratigraphy Roy R. Lemon, 1990 **Stratigraphic and Paleontologic Map of Becraft Mountain, Columbia County, New York** ,1970 **Stratigraphy, Petrology, and Genesis of the Elliot Group, Blind River, Ontario** D.J. McLaren, G. A. Gross, Hans Frebold, N. J. Snelling, P. J. Pienaar, Robert Foster Black, Heward

Wallace Little,1962      **Stratigraphy** Barbara M. Conkin,James Elvin Conkin,1984      Dictionary of National Biography  
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