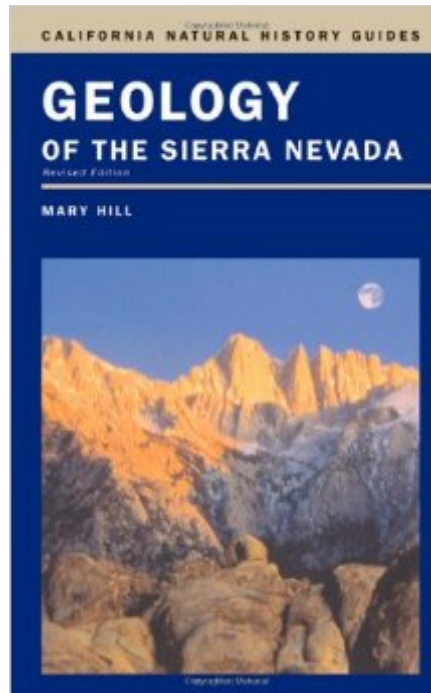


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# Geology Of The Sierra Nevada (California Natural History Guides)



## Synopsis

Writing with verve and clarity, Mary Hill tells the story of the magnificent Sierra Nevada—the longest, highest, and most spectacular mountain range in the contiguous United States. Hill takes us from the time before the land which would be California even existed, through the days of roaring volcanoes, violent earthquakes, and chilling ice sheets, to the more recent history of the Sierra's early explorers and the generations of adventuresome souls who followed. The author introduces the rocks of the Sierra Nevada, which tell the mountains' tale, and explains how nature's forces, such as volcanic eruptions, earthquakes, faulting, erosion, and glaciation formed the range's world-renowned scenery and mineral wealth, including gold. For thirty years, the first edition of *Geology of the Sierra Nevada* has been the definitive guide to the Sierra Nevada's geological history for nature lovers, travelers, hikers, campers, and armchair explorers. This new edition offers new chapters and sidebars and incorporates the concept of plate tectonics throughout the text.\* Written in easy-to-understand language for a wide audience.\* Gives detailed information on where to view outstanding Sierra Nevada geology in some of the world's most beloved natural treasures and national parks, including Yosemite.\* Provides specific information on places to see glaciers and glacial deposits, caves, and exhibits of gold mines and mining equipment, many from Gold Rush times.\* Superbly illustrated with 117 new color illustrations, 16 halftones, 39 line illustrations, and 12 maps, and also features an easy-to-use, interactive key for identifying rocks and a glossary of geological terms.

## Book Information

Series: California Natural History Guides (Book 80)

Paperback: 468 pages

Publisher: University of California Press; Second Edition, Revised Edition edition (May 15, 2006)

Language: English

ISBN-10: 0520236963

ISBN-13: 978-0520236967

Product Dimensions: 4.5 x 1.2 x 7.2 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars — See all reviews (22 customer reviews)

Best Sellers Rank: #499,675 in Books (See Top 100 in Books) #75 in Books > Science & Math > Nature & Ecology > Mountains #510 in Books > Science & Math > Nature & Ecology > Natural History #747 in Books > Science & Math > Earth Sciences > Geology

## Customer Reviews

Three decades ago geologist Mary Hill wrote a handbook to the Sierra Nevada's geologic history and it became the standard guide. The aptly named author has now extensively revised her book. It's an armchair traveler's delight and remains an authoritative guide that will well serve a new generation of hikers, campers, and explorers. "Geology of the Sierra Nevada: Revised Edition" (\$19.95 in full-color paperback from University of California Press) contains almost 200 illustrations, including photographs of rock forms and maps showing where to find them. Hill thanks Bill Guyton, professor emeritus of geosciences at Chico State University, "for his careful reading" of the new manuscript and draws on the research he published in "Glaciers of California" (1998). Guyton distinguished between glaciers and smaller "glacierets" and counted 99 glaciers in the Sierra Nevada and 398 glacierets. Hill notes that "the Sierra Nevada has a lot of glaciers, all of them small. If you are looking for the giants of the Great Ice Age, you will have to be content with their spoor." The book is divided into two sections. The first offers a "do-it-yourself rock identification key." A series of maps divides the Sierra Nevada into regions and shows where to find prominent rock formations in each area. The first map, mostly of eastern Butte County, locates "conglomerate" ("rock ... made up of grains 2 mm or more in diameter, together with coarser fragments") along Big Chico Creek. You can see shale in the Dry Creek area and lava flow and basalt on Table Mountain. The second part is the narrative, which takes new research into account.

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