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New Scholarly Books	3
Previously Published	10
Roadside Geology	14
Geology Rocks!	18
Geology Underfoot	20
Earth Science	22
In the Field	24
In and Out of the Classroom	25
Newly Reduced Prices	26
Decade of North American Geology	28

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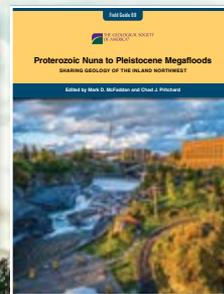
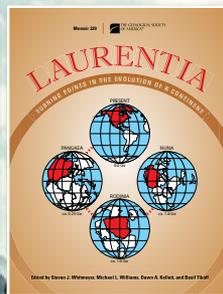
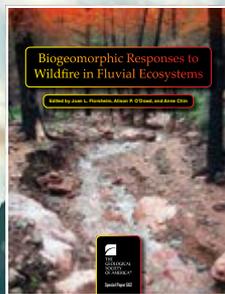
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Field Guide 71



Coastal and Structural Geology, Paleontology, and Building Stones Along the Eastern Shore of Lake Erie

Edited by Joseph T. Hannibal and Eric Straffin



Coastal and Structural Geology, Paleontology, and Building Stones Along the Eastern Shore of Lake Erie

Edited by Joseph T. Hannibal and Eric Straffin

The eastern shore of Lake Erie contains a great variety of geologic features and opportunities to examine human use of natural resources and landscapes. This book includes up-to-date guides and road logs to classic and newly described sites in northeastern Ohio, along the Pennsylvania shore, and in western New York. Guides examine Devonian fossils and extinction events, and the origin and age of folds within those rocks. Quaternary geologic history of the region is examined through the lens of geomorphic mapping and stratigraphy. Historic beaches, bluffs, erosion hazards, and coastal engineering strategies are explored at Presque Isle and Erie Bluffs State Parks. Guides also introduce the reader to the wealth of building stones used in downtown Erie and at Frank Lloyd Wright's Graycliff site in nearby New York State.

FLD071, 174 p., 8.5 × 11
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Field Guide 72

From the Ozark Plateaus and Arkansas River Valley to the Shenandoah Valley

FIELD GUIDES FOR THE 2025 GSA SOUTH-CENTRAL AND SOUTHEASTERN SECTION MEETINGS

Edited by Yonathan Admassu, Ángel Garcia, and Richard Hutto



From the Ozark Plateaus and Arkansas River Valley to the Shenandoah Valley: Field Guides for the 2025 GSA South-Central and Southeastern Section Meetings

Edited by Yonathan Admassu, Ángel Garcia, and Richard Hutto

The six guides in this volume are related to trips from the GSA South-Central Section Meeting in Conway, Arkansas, and the Southeastern Section Meeting in Harrisonburg, Virginia, USA. The first guide explores the links between fluvial deposits in southern Missouri and deltaic depositional systems in the Boston Mountains and Arkoma basin of north-central Arkansas. The second visits two sites in the Ozark Plateaus, each displaying the classic features of a recent mass wasting event. For a change of pace, enjoy the guide on modern geoscience field mapping in the Valley and Ridge of West Virginia. Next, explore Virginia with guides to the geoheritage of Shenandoah National Park and the Blue Ridge Tunnel as well as the stratigraphy, structure, and karst of Falling Spring Valley. The final chapter provides insights into the stratigraphy, structure, and geomorphology of the central Appalachians across the North Mountain fault zone.

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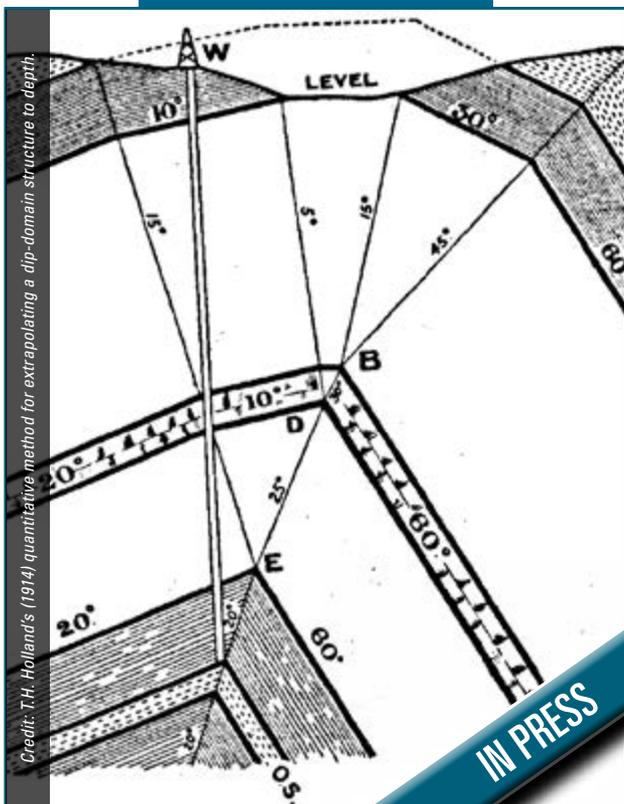
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Memoir 224



An Illustrated History of Innovations in Predicting the Geometry of Subsurface Structures

By Richard H. Groshong Jr.

This book is a history of techniques for predicting subsurface structural geometries, along with insight into the context in which the techniques were developed. Who did it first? Why did they do it? How did their creative process work? The volume follows important innovations (1) from first publication, (2) along the main threads of their development, (3) to nearly the end of the twentieth century. Chapter 1 is an overview of structural concepts developed before, and as, geology became recognized as a separate science. Chapter 2 discusses structure contouring as a predictive tool. Chapters 3–9 describe different methods for predicting the geometry in cross section, and Chapters 10–12 discuss methods for making predictions in three dimensions. The final two chapters examine creative environments and future directions. Structural geologists, people interested in the history of geology, and those wanting insights into the creative processes involved will enjoy this volume.

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GEOPATHS—Broadening the Voices in Geosciences: Pathways to Innovative Pedagogy and Professional Development

Edited by James H. MacDonald, Jr., Renee M. Clary, Reginald S. Archer, and Ruby L. Broadway

Geoscience remains one of the least diverse STEM fields. National geoscience undergraduate enrollments have declined significantly over time, with graduate enrollments stagnant for decades. Limited exposure to earth sciences in K–12 curricula contributes to these trends since many students discover geosciences after entering college. However, geoscience careers are projected to outpace the national employment trends over the next decade. This volume addresses these issues by focusing on geoscience education, curriculum innovation, workforce preparation, and diversity enhancement. Chapters included target educators and institutions and offer strategies to increase enrollment, diversity, and graduation rates to benefit all the geoscience disciplines.

SPE564, 9 chapters, 8.5 × 11, ISBN 9780813725642

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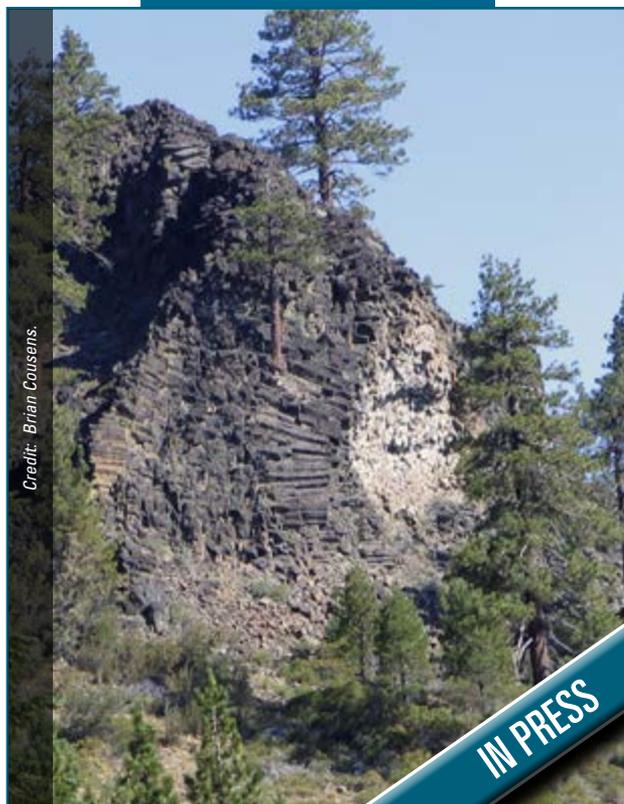
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The Virtue of Fieldwork in Volcanology, Sedimentology, Structural Geology, and Tectonics—Celebrating the Career of Cathy Busby

Edited by Nancy Riggs, Keith Putirka, and John Wakabayashi

Cathy Busby was awarded GSA's Division of Mineralogy, Geochemistry, Petrology, and Volcanology's Distinguished Career Award in 2020. In 2022, the editors of this volume convened a session at the GSA Connects meeting to honor her and then encouraged session participants to contribute to this volume. The papers range in scope from petrology to facies analysis to sedimentation, and they span time from Permian to Holocene, and space from Mexico and California to Taiwan and Izu-Bonin. Many are focused on parts of the North American Cordillera, and they are ordered from north to south (from Lassen Peak, California, to Michoacán, México). Papers from the western Pacific Ocean follow these, and this final section also includes process and textural studies. All of the papers celebrate Busby's dedication to fieldwork as the foundation for geological studies.

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SPE299: **Jurassic Magmatism and Tectonics of the North American Cordillera**

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Edited by Claudia I. Mora and A. Wesley Ward, 2024

The geological sciences are among the least diverse of all the sciences. Despite achieving gender parity within our student population, the underrepresentation of women, people of color, and people with disabilities persists across our professional ranks. This book presents autobiographical stories by eight professional earth scientists from underrepresented groups, who persevered in their quests to develop a career in the earth sciences despite experiencing marginalization rooted in prejudice, bias, ignorance, and/or indifference. Their stories are unique and frank and send a message that marginalization is surmountable, a condition to be navigated and to be changed.

MWR223, 90 p., 8.5 × 11, ISBN 9780813712239

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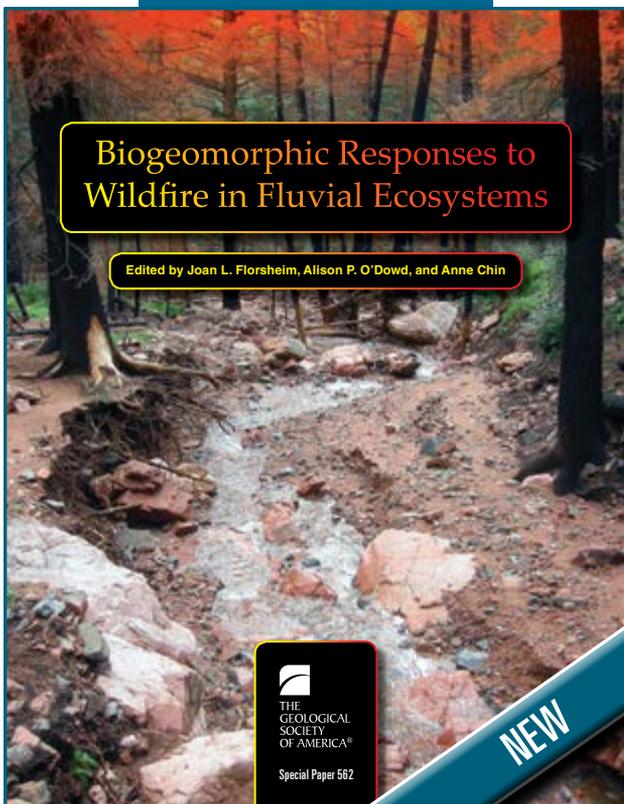
MWR214: **Women and Geology: Who Are We, Where Are We Going?**

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Biogeomorphic Responses to Wildfire in Fluvial Ecosystems

Edited by Joan L. Florsheim, Alison P. O'Dowd, and Anne Chin

Biogeomorphic Responses to Wildfire in Fluvial Ecosystems

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Wildfire biogeomorphology is fundamental in understanding the dynamic processes of adjustment that occur after wildfires. This volume draws together interdisciplinary studies that highlight insights important to support heterogeneity, biodiversity, and resilience in fluvial ecosystems. Post-wildfire sediment pulses that change the elements of fluvial habitat may be transitory or long-lasting, for example, depending on variations in post-wildfire climate conditions. How biological processes and feedback alter post-wildfire geomorphic responses is also important to enhance ecosystem resilience. These syntheses point to greater emphasis on integrated approaches to advance strategies for ecosystem management toward conservation, restoration, and sustainable practices, in particular, to accommodate multiple postfire disturbance and recovery trajectories.

SPE562, 176 p., 8.5 × 11, ISBN 9780813725628

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GSA Connects 2024—Southern California Geo-Sites

Compiled by Chelsea M. Feeney
in collaboration with Christopher M. Bailey
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Copublished by GSA and Mountain Press Publishing Company. Inspired by the geology and excitement surrounding GSA Connects 2024 in Anaheim, California, USA, this map showcases southern California geology. The front of the map provides information about geo-sites, including those featured in Connects 2024 trips, and refers you to related papers from GSA Field Guide 70: *From Coastal Geomorphology to Magmatism, Geology Underfoot in Southern California, and California Rocks!* The back provides maps and even a geologic time scale, illustrating the “Water in Our Changing World” and “Life along an Active Margin” themes. Indulge your interest in always dynamic southern California with this map!

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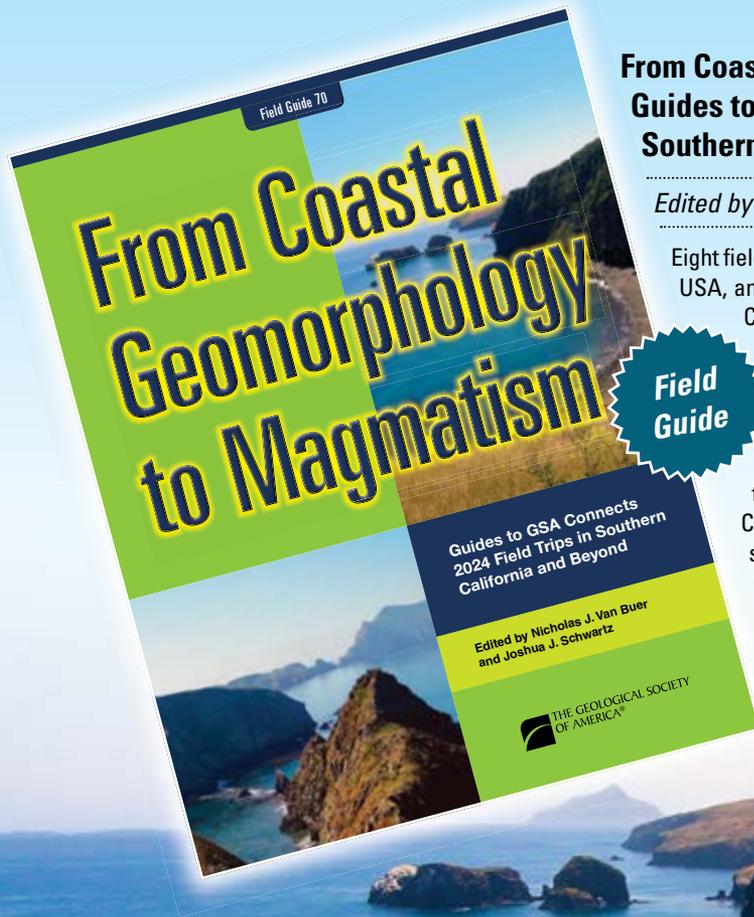
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Dynamic Southern California and Beyond



From Coastal Geomorphology to Magmatism: Guides to GSA Connects 2024 Field Trips in Southern California and Beyond

Edited by Nicholas J. Van Buer and Joshua J. Schwartz, 2024

Eight field guides take you to a variety of locations in southern California, USA, and beyond. Explore basaltic volcanoes in Hawai'i (active!) and California's Mojave Desert (Miocene to Quaternary). Learn about the geology and paleontology of some of southern California's top attractions: Disneyland and the La Brea Tar Pits. Study post-fire debris flows in the San Bernardino Mountains and magmatic fracture systems in Yosemite National Park. And investigate the geologic history of the Santa Monica Mountains and Santa Cruz Island. These field guides from the GSA Connects 2024 meeting in Anaheim, California, are an indispensable resource for geology enthusiasts!

FLD070, 201 p., 8.5 × 11, ISBN 9780813700700
list price \$60.00 | **member price \$42.00**

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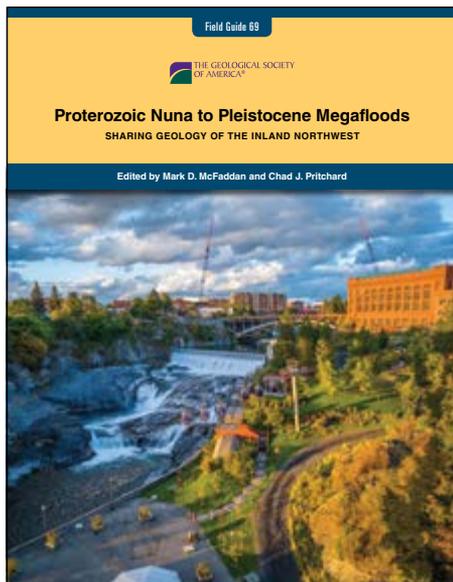
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Proterozoic Nuna to Pleistocene Megafloods: Sharing Geology of the Inland Northwest

Edited by Mark D. McFadden and Chad J. Pritchard, 2024

The Inland Pacific Northwest documents geologic processes from the Proterozoic to the present. This volume presents field guides from the GSA 2024 Joint Cordilleran and Rocky Mountain Section Meeting, exploring the genesis of bedrock in Idaho, Neoproterozoic development of supercontinents in Washington, Cambrian tectonic and biostratigraphic history of Washington, paleoecology of Miocene woodlands in Idaho, and the critical connection between Anthropocene activity and the past in Spokane. An overview of Pleistocene megaflood effects is shown through outcrops and drone images. Advances in understanding of the Columbia River Basalt Group are presented with an emphasis on volcanology and flood basalt evolution. The story of the Sevier orogeny accretionary margin is examined, as are the landmark studies of the Mesoproterozoic Belt Basin through a Missoula to Spokane transect.

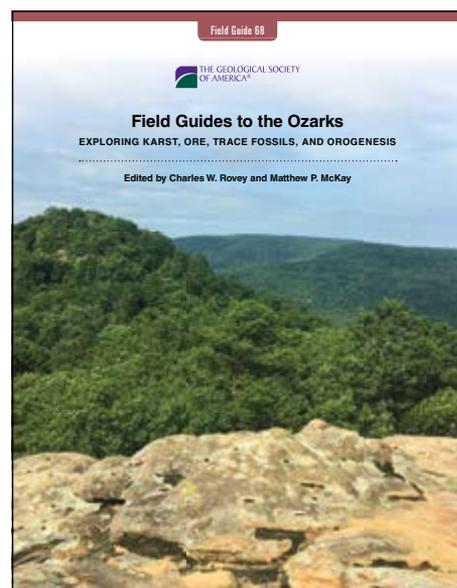
FLD069, 240 p., 8.5 × 11, ISBN 9780813700694 | \$85.00 | **member price \$68.00** |

Field Guides to the Ozarks: Exploring Karst, Ore, Trace Fossils, and Orogenesis

Edited by Charles W. Rovey and Matthew P. McKay, 2024

The four guides in this volume are associated with the GSA 2024 Joint North-Central and South-Central Section Meeting in Springfield, Missouri, USA, near the heart of the Ozarks physiographic province. They explore urbanization in a karst terrane as well as the geology and genesis of the Viburnum Trend Mississippi Valley-type ore district. One chapter tackles the trace fossils and paleosalinity of the Northview Formation. The last chapter addresses the geology of the Ouachita Mountains and linkages to North American late Paleozoic orogenesis.

FLD068, 74 p., 8.5 × 11, ISBN 9780813700687 | \$65.00 | **member price \$47.00** |

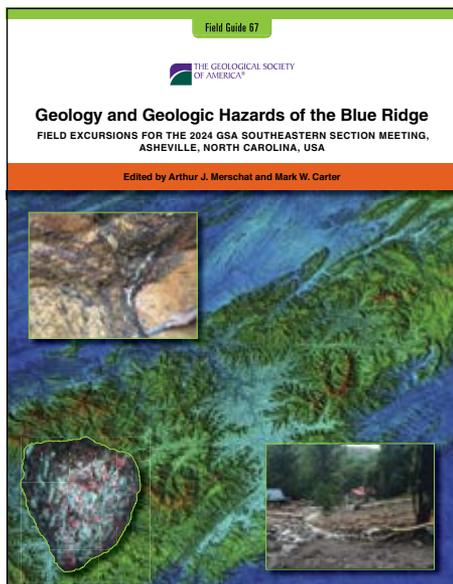


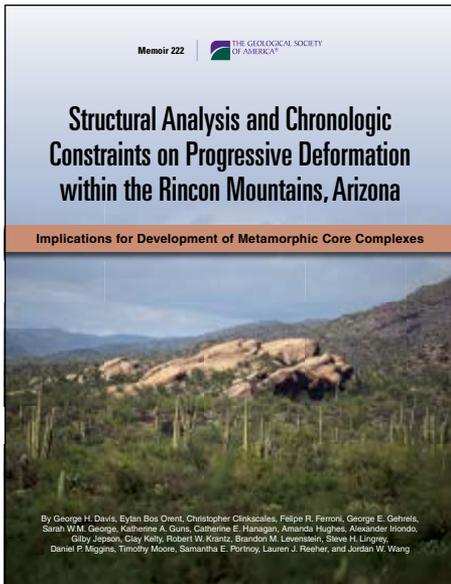
Geology and Geologic Hazards of the Blue Ridge: Field Excursions for the 2024 GSA Southeastern Section Meeting, Asheville, North Carolina, USA

Edited by Arthur J. Merschat and Mark W. Carter, 2024

The field guides in this volume explore facets of the geology of western North Carolina, USA. The trip to Buck Creek and Chunky Gal Mountain examines high-temperature mafic and ultramafic rocks interpreted to be part of a dismembered ophiolite thrust onto Laurentian crust during the Taconic orogeny. The second trip traverses rugged terrain along the Blue Ridge Escarpment from near the South Carolina state line to Hickory Nut Gorge just southeast of Asheville to examine rockfalls, rockslides, debris flows, and debris slides triggered by extreme rainfall events. The trip to Sparta, North Carolina, highlights the results of interdisciplinary studies following the 2020 M_w 5.1 earthquake.

FLD067, 106 p., 8.5 × 11, ISBN 9780813700670 | \$57.00 | **member price \$41.00** |





Structural Analysis and Chronologic Constraints on Progressive Deformation within the Rincon Mountains, Arizona: Implications for Development of Metamorphic Core Complexes

By G.H. Davis, E. Bos Orent, C. Clinkscales, F.R. Ferroni, G.E. Gehrels, et al., 2023

The Catalina-Rincon metamorphic core complex (Tucson, Arizona, USA) is a type Cordilleran metamorphic core complex. This volume draws together decades of investigations into the geology of the Rincos, and presents results of multi-scale mapping and structural analysis of the Catalina detachment zone, a superbly exposed crustal-scale shear zone. A structural model for progressive incremental deformation synthesizes geological observations into a kinematic/mechanical framework. To this is added the first substantive application of multi-method geochronology and thermochronology, results of which place the evolution of the detachment zone (from mylonitization through cataclasis to exhumation) into a narrow time window, i.e., from ca. 26 to 17 Ma.

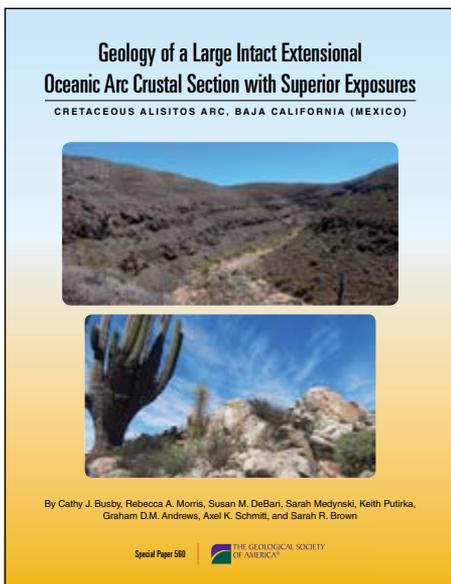
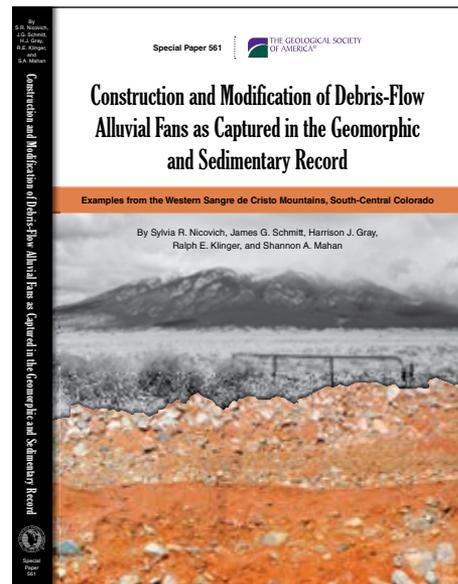
MWR222, 125 p., 8.5 × 11, ISBN 9780813712222 | \$79.00 | member price \$55.00 |

Construction and Modification of Debris-Flow Alluvial Fans as Captured in the Geomorphic and Sedimentary Record: Examples from the Western Sangre de Cristo Mountains, South-Central Colorado

By S.R. Nicovich, J.G. Schmitt, H.J. Gray, R.E. Klinger, and S.A. Mahan, 2023

Alluvial fans offer a means to unravel the intricacies of landscape, tectonic, and climatic dynamics. This book and accompanying geologic map highlight alluvial fans and their deposits exemplified by a suite of debris-flow alluvial fans emanating from the Holocene-active western range front of the Sangre de Cristo Mountains in Colorado. The link between morphologies of fan surfaces and the sedimentary facies of their deposits permits a basis for evolutionary process interpretation of debris-flow alluvial fan geomorphology. A grasp of these processes will help earth scientists better discern complexities between buried paleo-surfaces, surficial deformation, and landform development as recorded in debris-flow fan deposits in the sedimentary record.

SPE561, 47 p. + map insert, 8.5 × 11, ISBN 9780813725611 | \$35.00 | member price \$24.00 |



Geology of a Large Intact Extensional Oceanic Arc Crustal Section with Superior Exposures: Cretaceous Alisitos Arc, Baja California (Mexico)

By C.J. Busby, R.A. Morris, S.M. DeBari, S. Medynski, K. Putirka, G.D.M. Andrews, A.K. Schmitt, and S.R. Brown, 2023

The Rosario segment of the Cretaceous Alisitos arc (Baja California, Mexico) is arguably the best-exposed structurally intact and unmetamorphosed oceanic arc crustal section on Earth. This 50-km-long section exposes the transition from upper-crustal volcanic rocks to mid-crustal plutonic rocks, formed in an extensional environment. This book presents a detailed geologic map, based on an exhaustive data set including geochemistry, geochronology, and annotated outcrop photos and photomicrographs. Subsegments within the Rosario segment include a subaerial edifice, a volcano-bounded basin, and a fault-bounded basin, each underpinned by separate plutons. The entire data set is integrated across these subsegments in a time slice reconstruction of arc evolution and the relationships between plutonism and volcanism.

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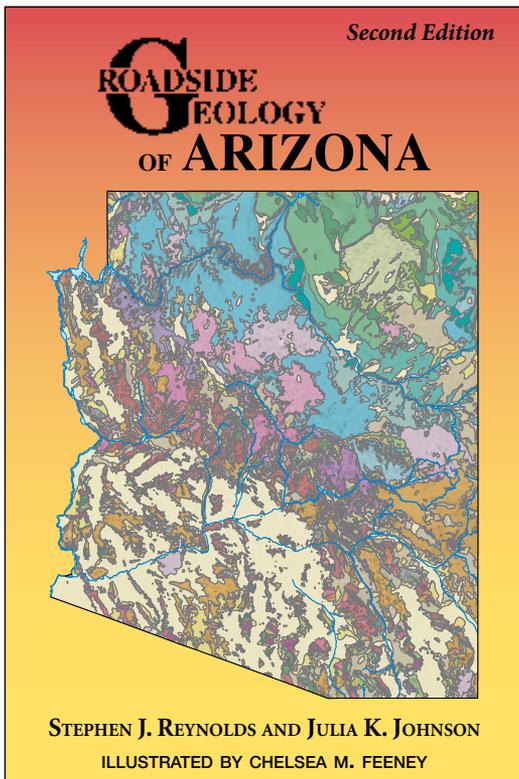
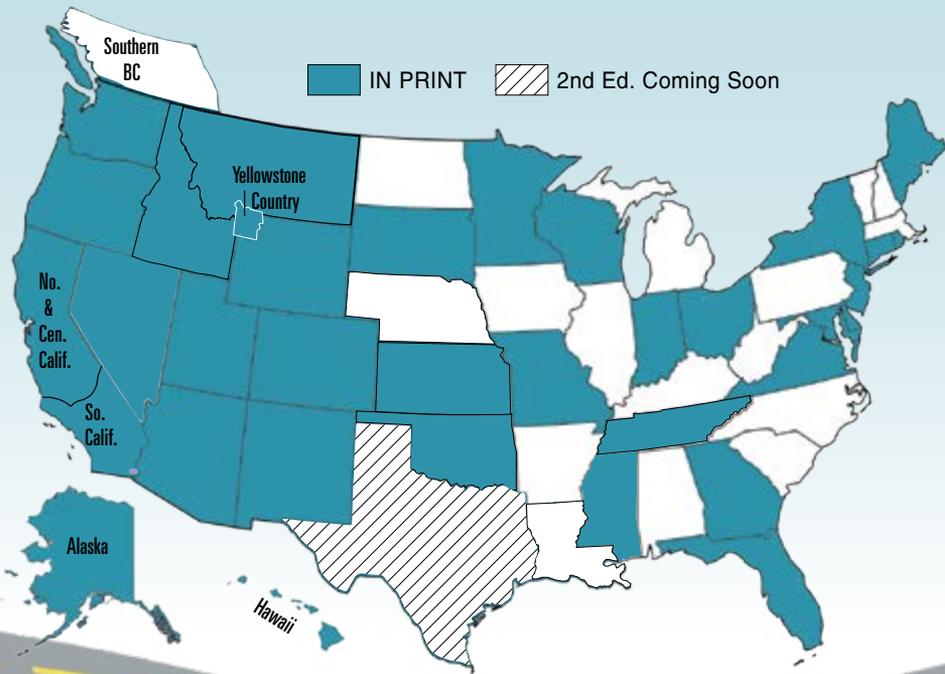
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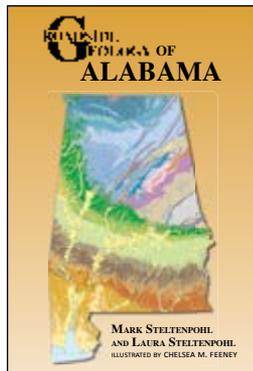
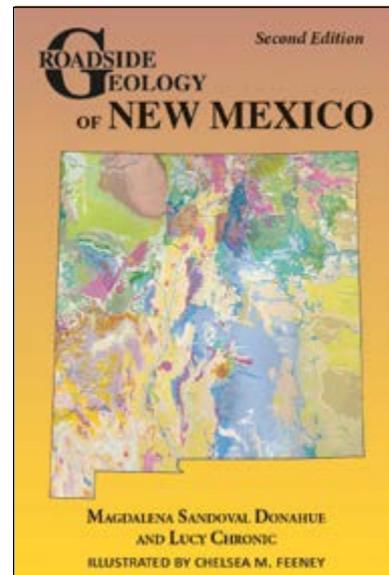
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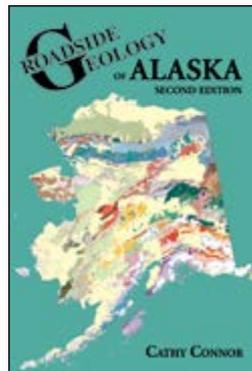
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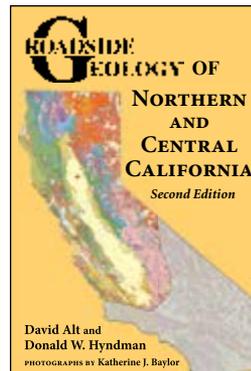


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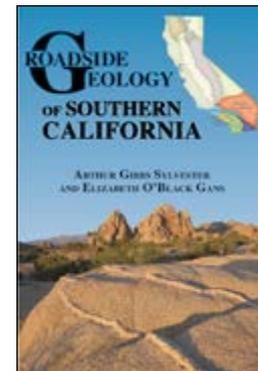


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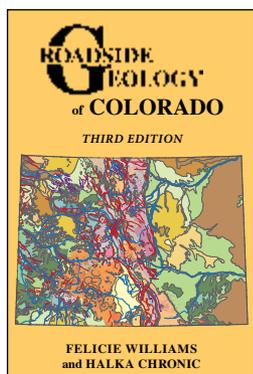
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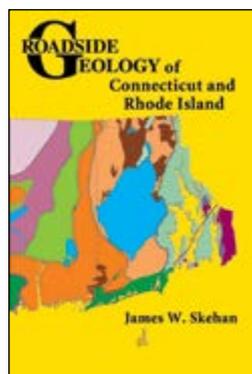
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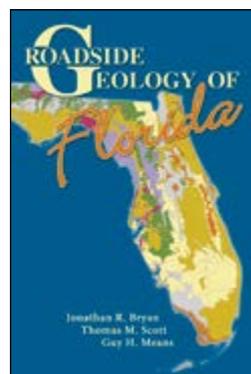
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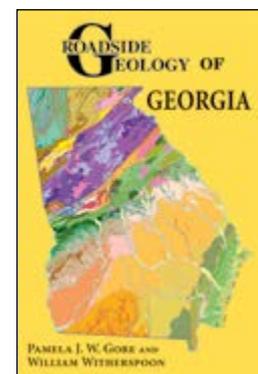
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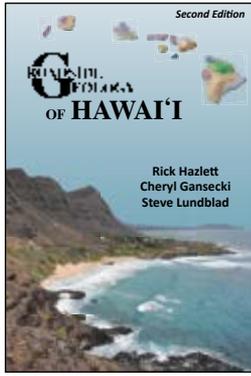
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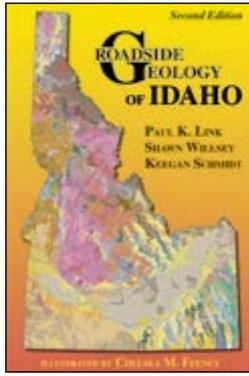
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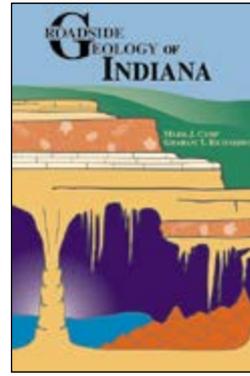
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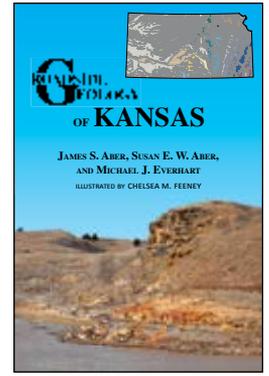
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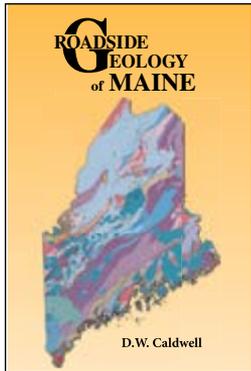
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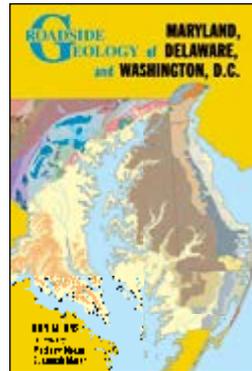
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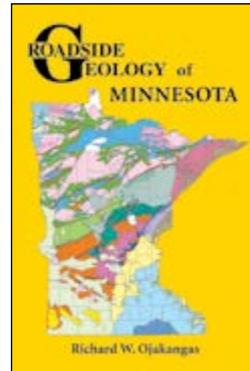
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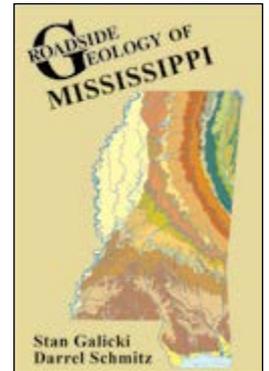
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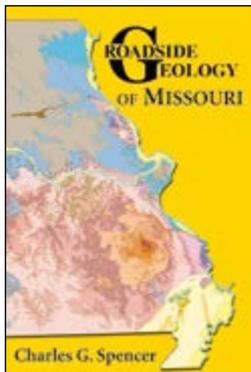
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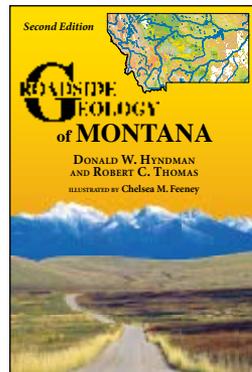
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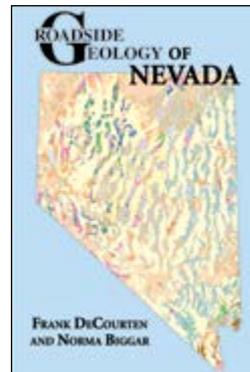
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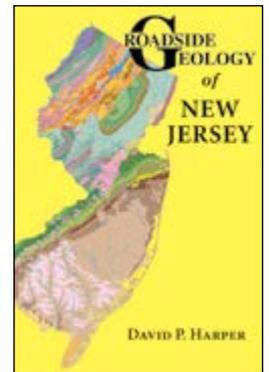
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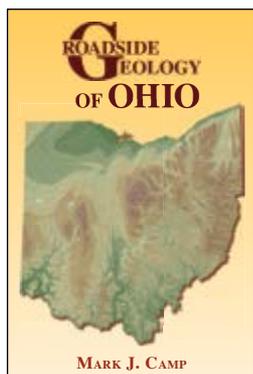
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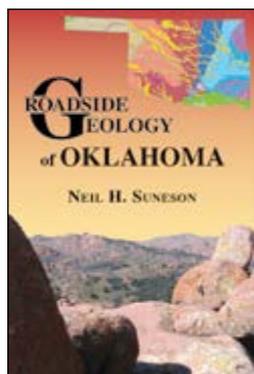
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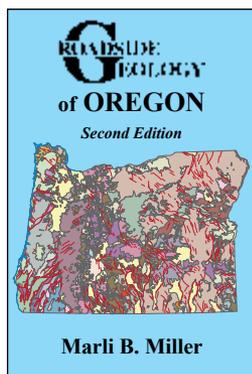
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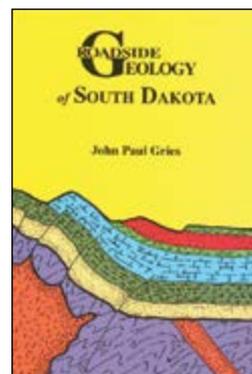
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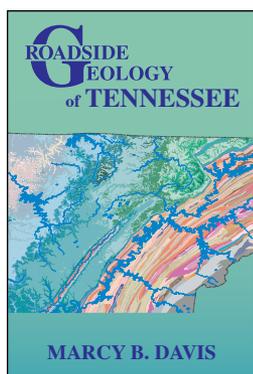
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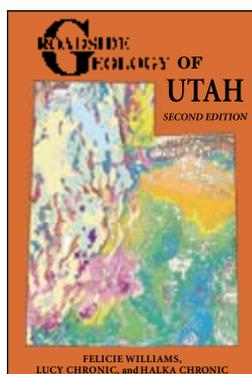
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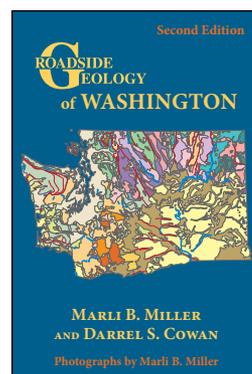
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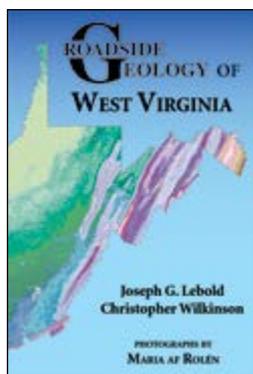
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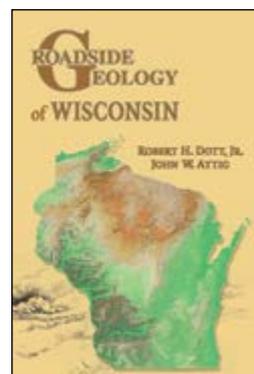
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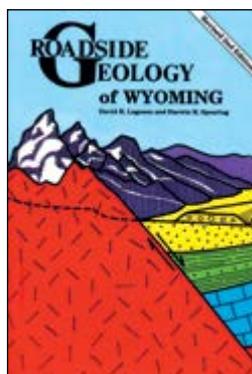
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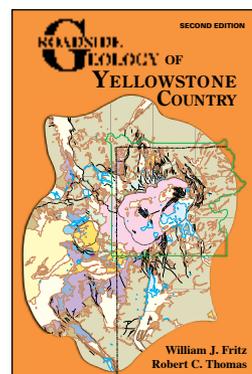
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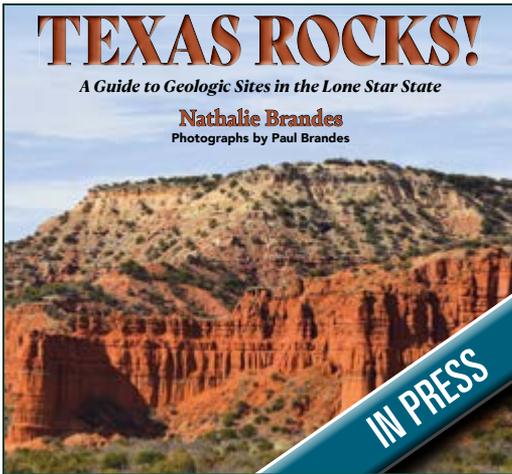
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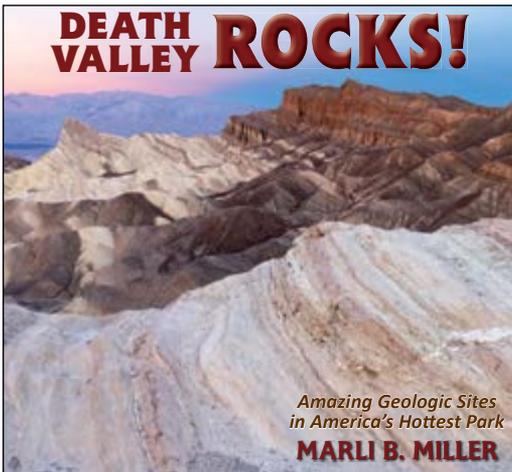


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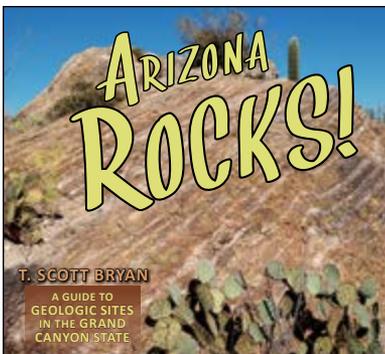


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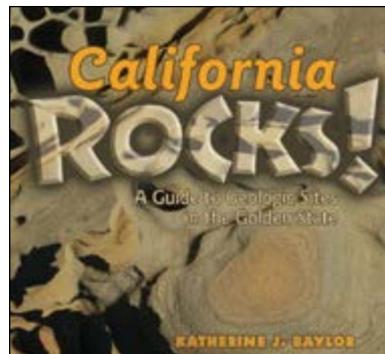
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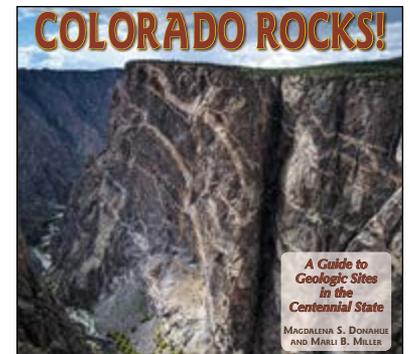
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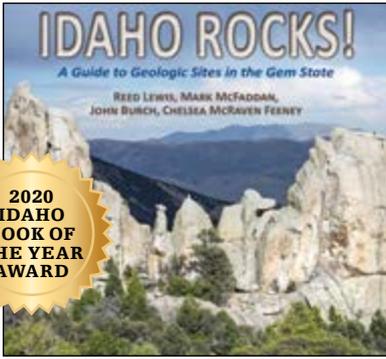
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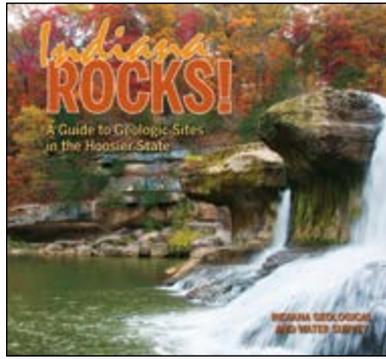
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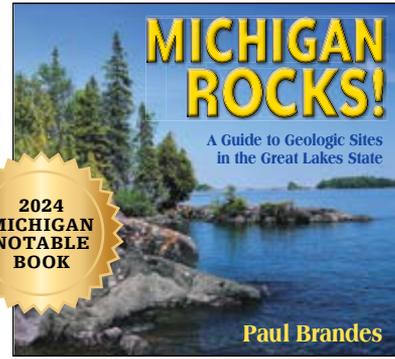
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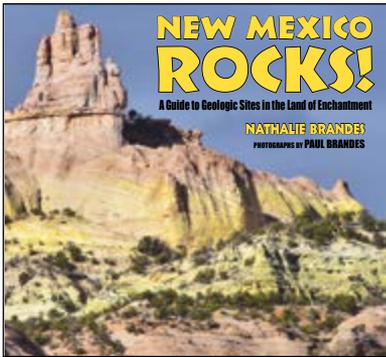
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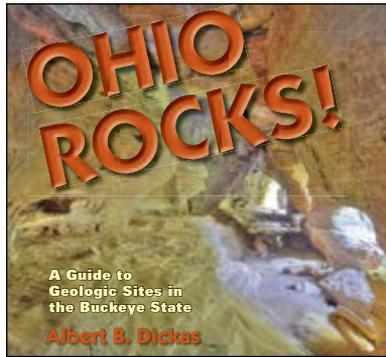
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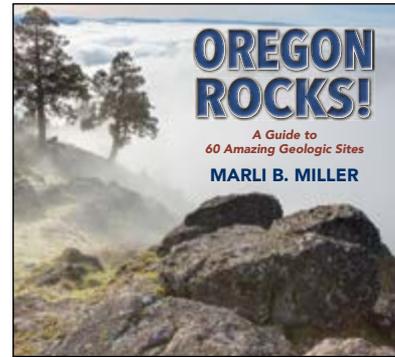
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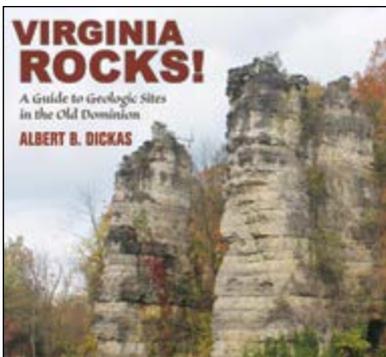
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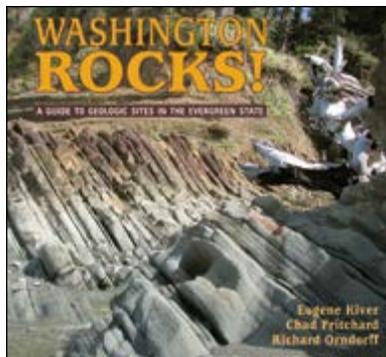
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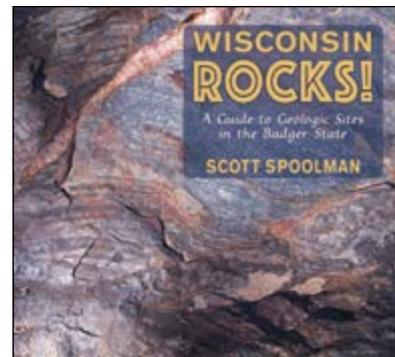
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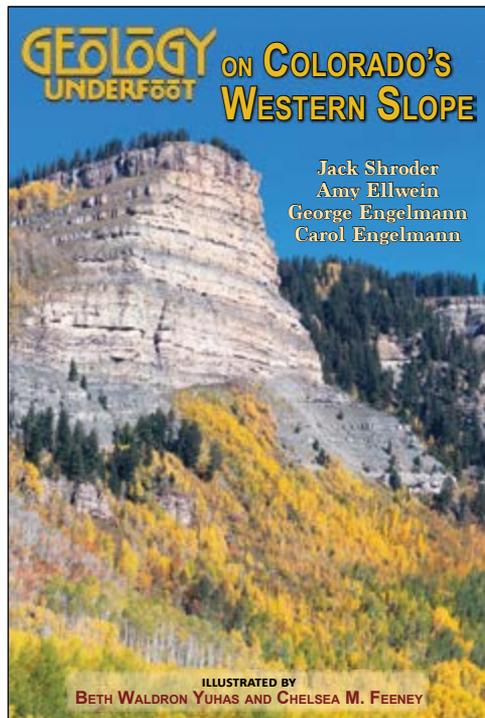


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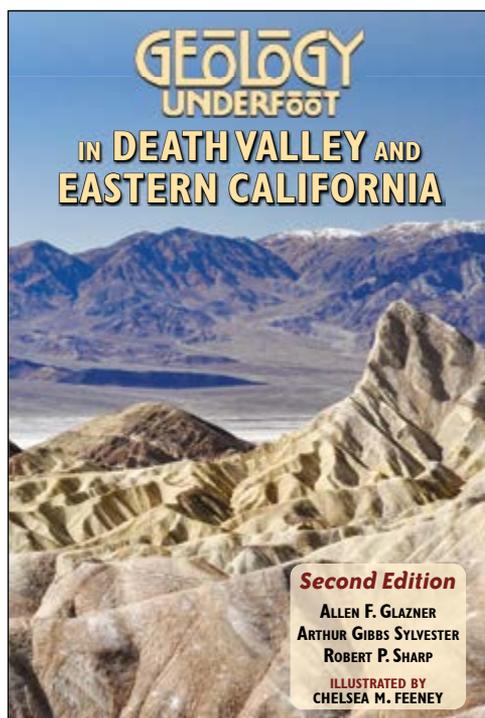


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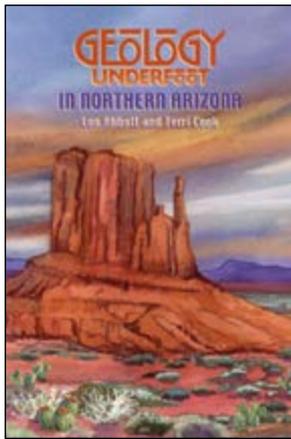


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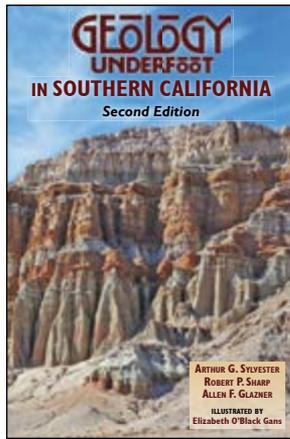


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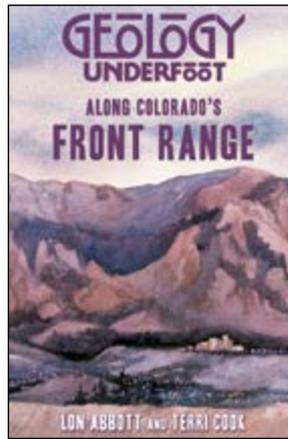


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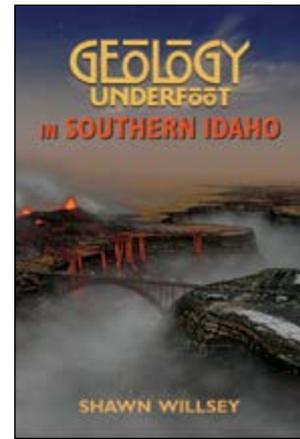


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Lon Abbot and Terri Cook

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—Bob Jones, *Rock and Gem*
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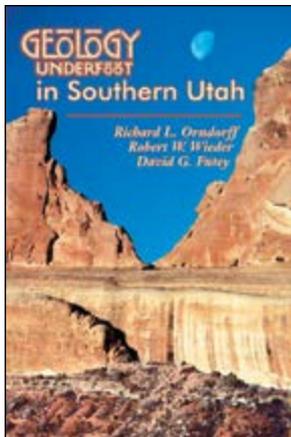
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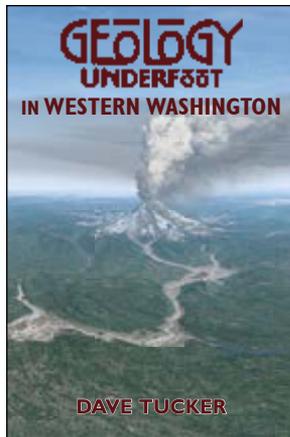
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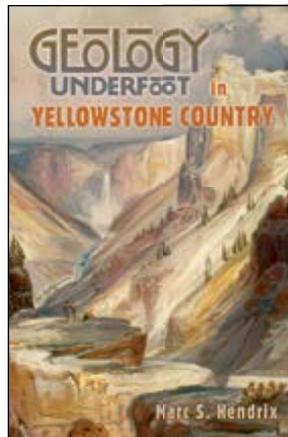
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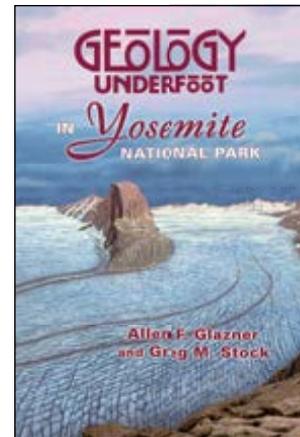
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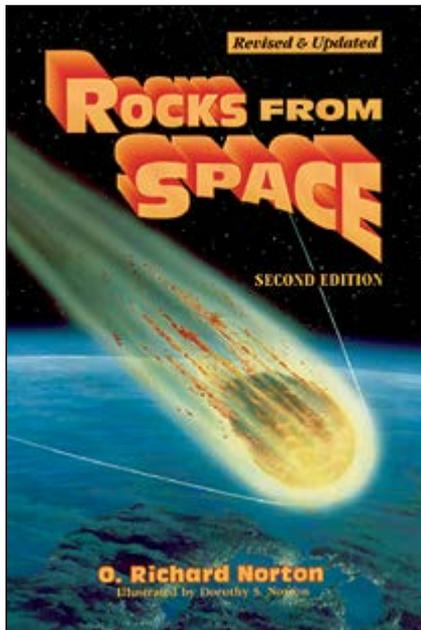
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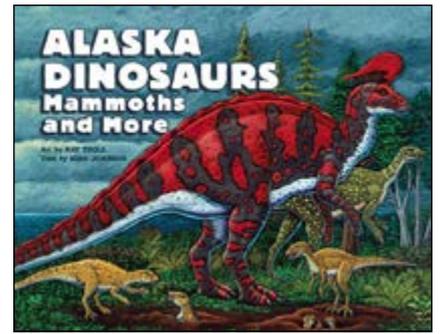
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Illustrated by Dorothy S. Norton

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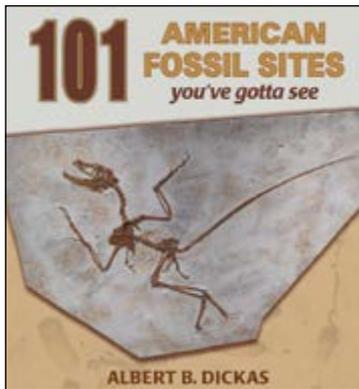


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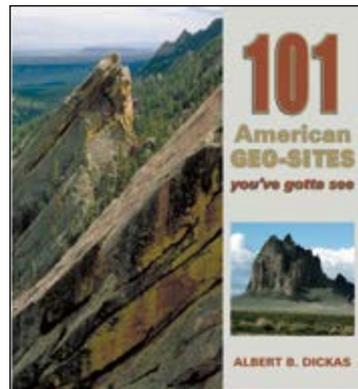
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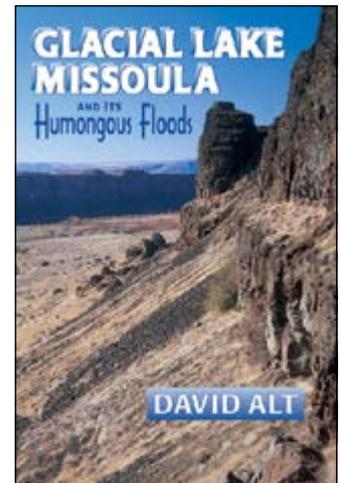
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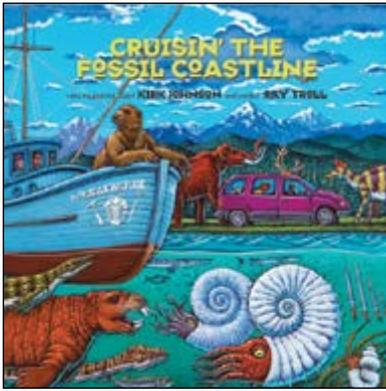


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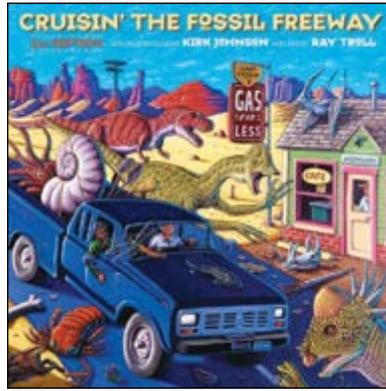


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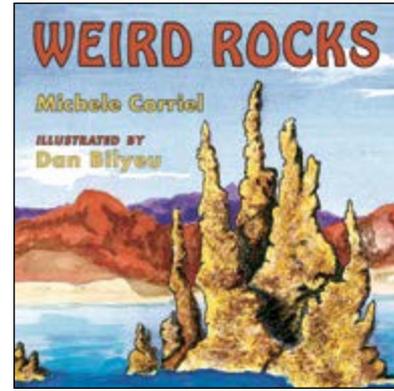


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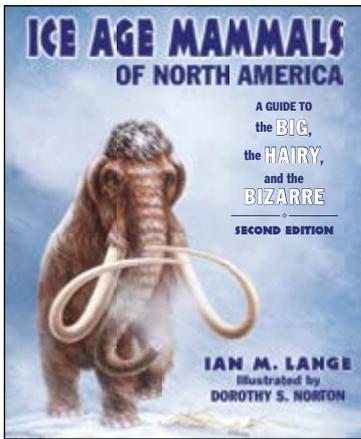
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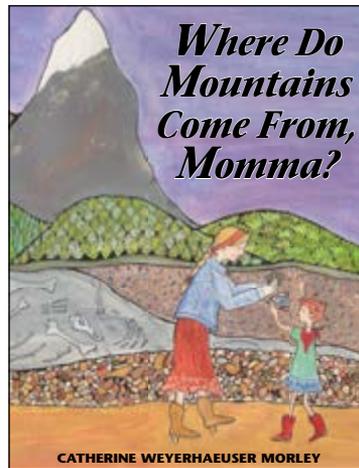
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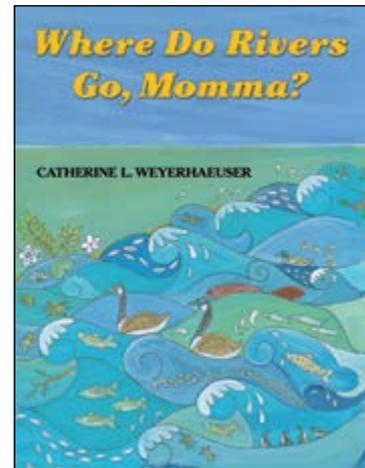
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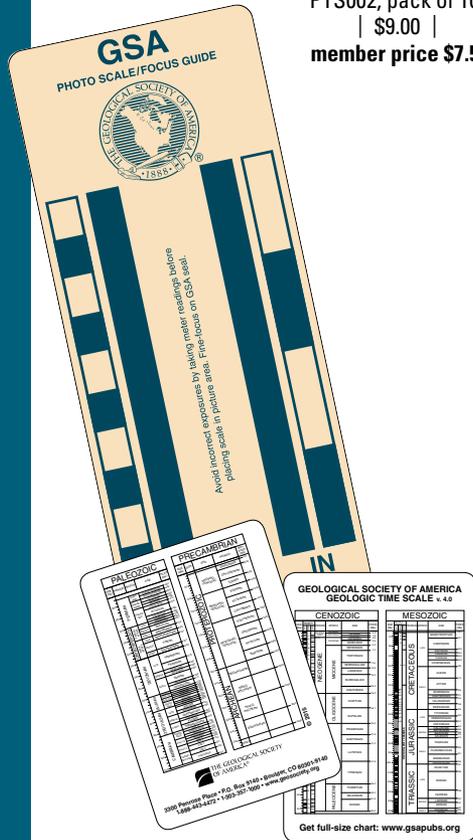
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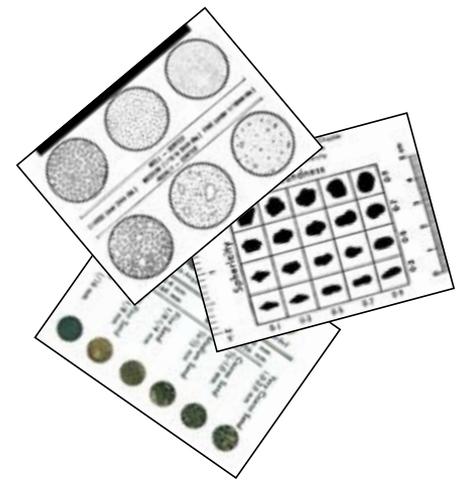
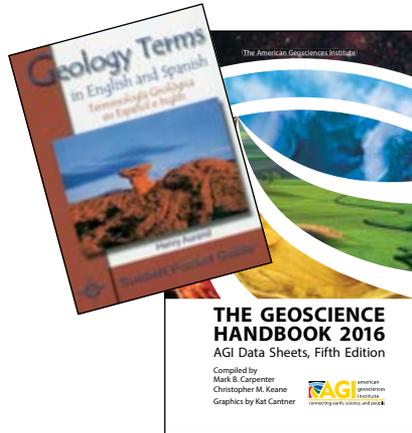


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By Henry Aurand, 2000

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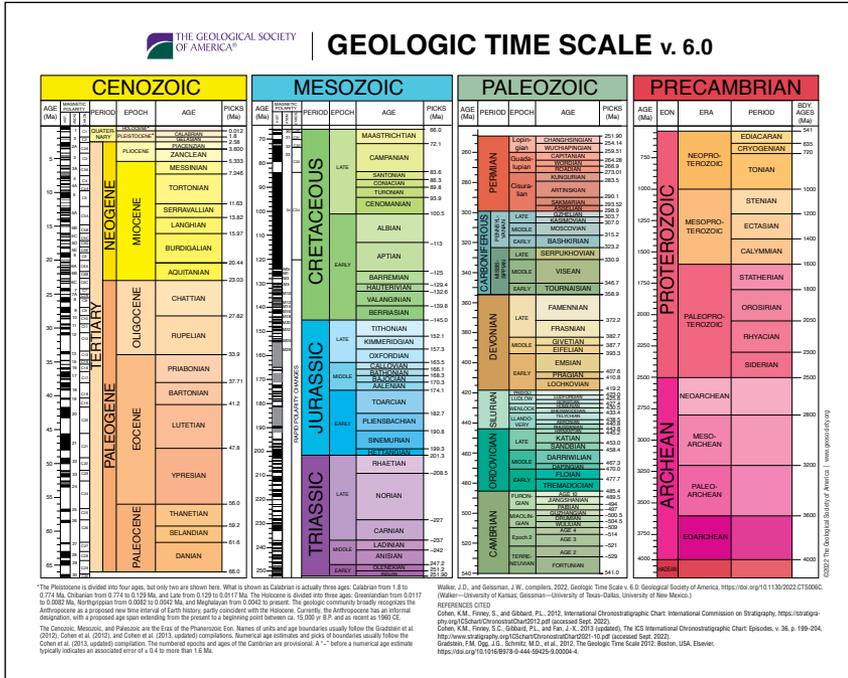


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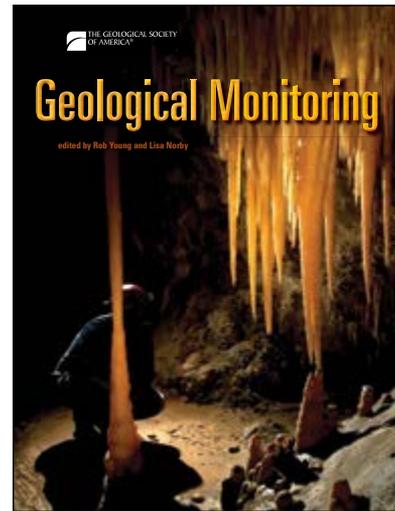
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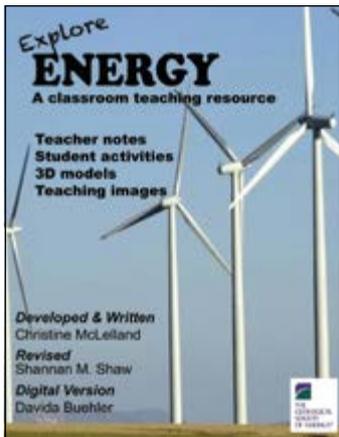
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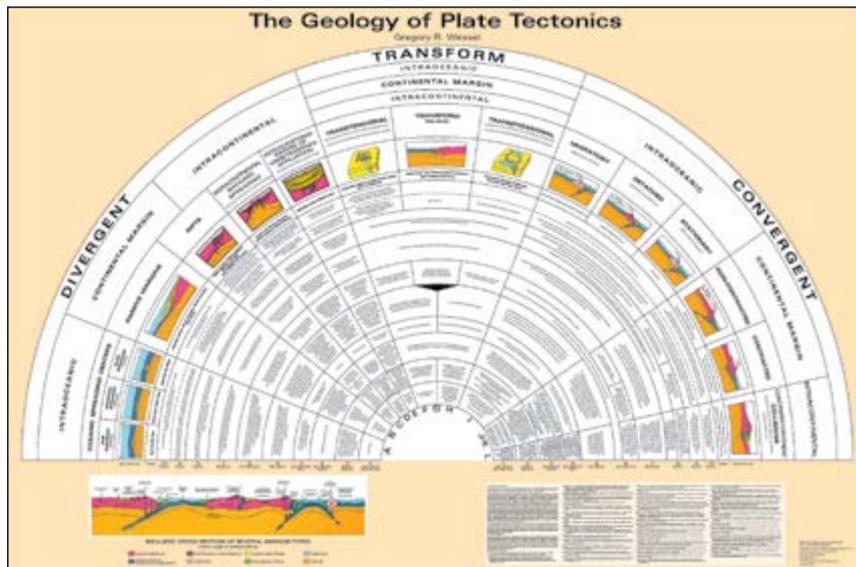


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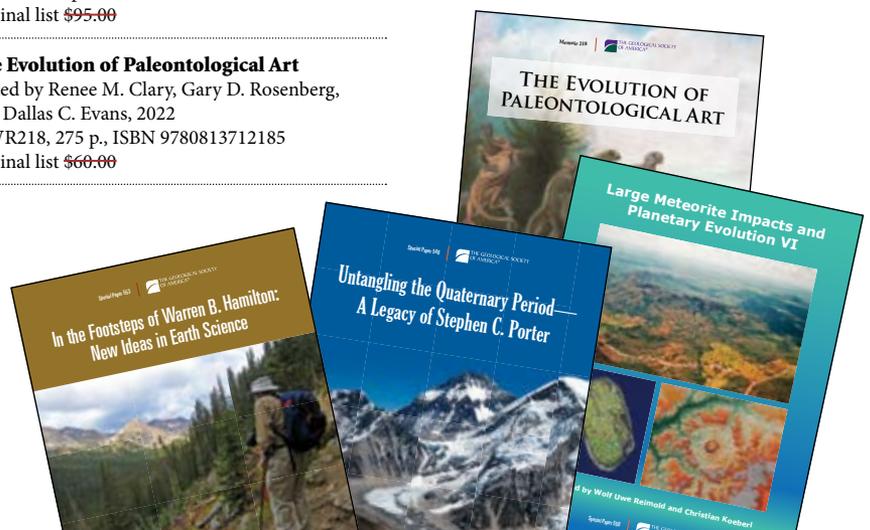
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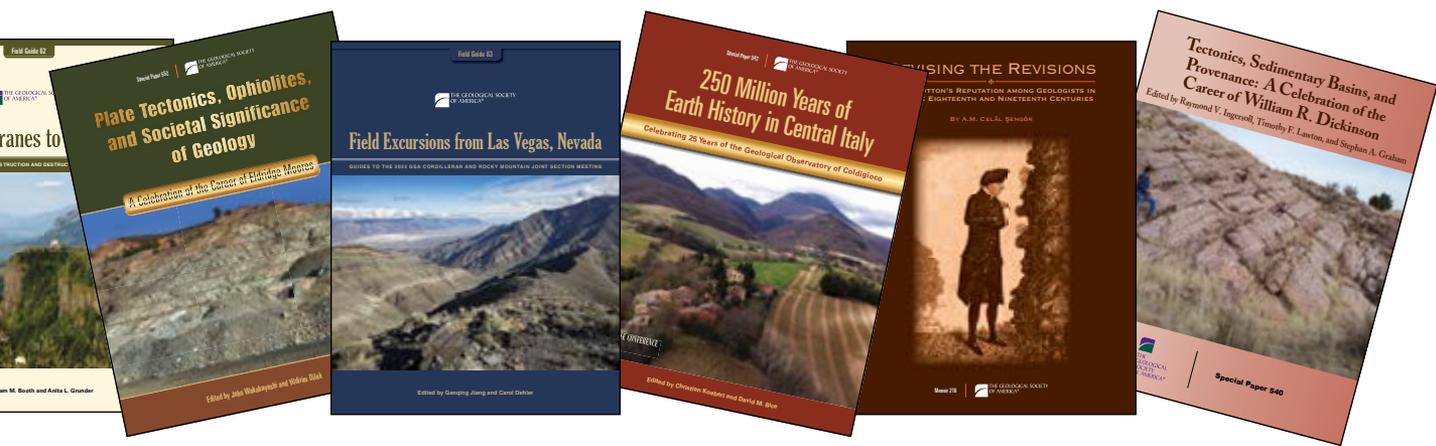
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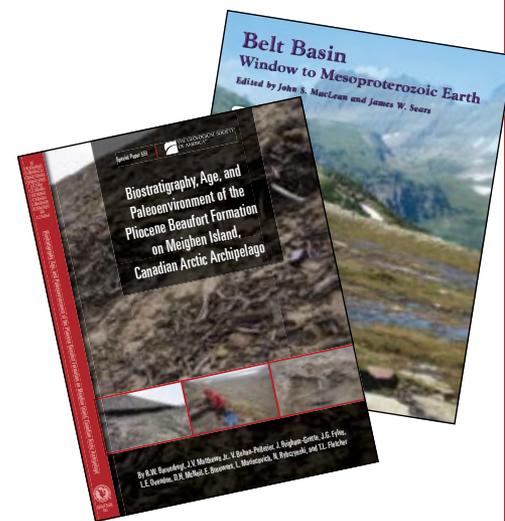
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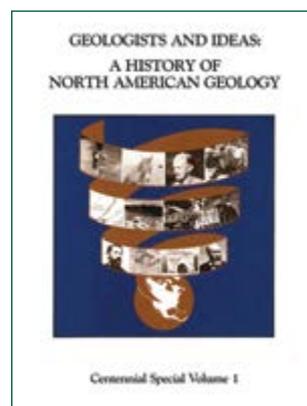
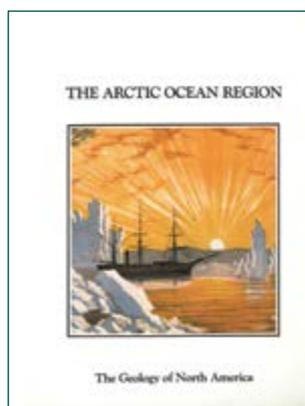
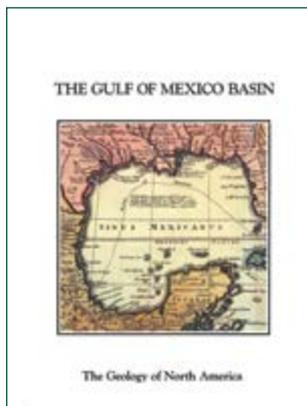
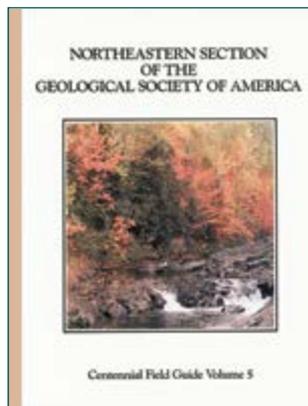


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