

THE GRAND CANON

A Worldwide Bibliography

of the

Grand Canyon *and* Lower Colorado River
Regions in the United States and Mexico

16th to 21st Centuries

Volume 1, Part B: Bibliography

FIFTH EDITION

111,000 CATEGORIZED AND AUGMENTED CITATIONS FOR
PUBLICATIONS FROM AROUND THE WORLD IN 115 LANGUAGES

Earle E. Spamer



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BIBLIOGRAPHICAL AND HISTORICAL RESOURCES ON THE
GRAND CANYON AND LOWER COLORADO RIVER REGIONS OF THE
UNITED STATES AND MEXICO

THE GRAND CANON : A WORLDWIDE BIBLIOGRAPHY OF THE GRAND CANYON AND LOWER
COLORADO RIVER REGIONS IN THE UNITED STATES AND MEXICO, 16th TO 21st CENTURIES
Volume 1, Part B: Bibliography
Fifth Edition

CATALOGERS NOTE
canon: *a standard or
essential list of works*

The Grand Canon
not The Grand Canyon

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THE GRAND CANON

A WORLDWIDE BIBLIOGRAPHY OF THE GRAND CANYON AND LOWER COLORADO RIVER REGIONS
IN THE UNITED STATES AND MEXICO

21

GEOLOGY AND PALEONTOLOGY OF THE GRAND CANYON REGION

**Earth sciences of the Grand Canyon region,
including extralimital studies of the continuity of Grand Canyon strata,
regional structure and tectonics, regional groundwater hydrology, and the
geological evolution of the Colorado River**

PART 21. GEOLOGY AND PALEONTOLOGY OF THE GRAND CANYON REGION

OVERVIEW. This part includes works about the geology and paleontology of the Grand Canyon (including hydrogeology of tributaries to the Colorado River, but excluding the hydrogeologic regime of the Colorado River), studies of Grand Canyon rock units *and their stratigraphic continuity beyond the canyon-proper*, studies of the structure and tectonics of southwestern North America where also embracing the Grand Canyon region, investigations of the evolution of the Grand Canyon and the Colorado River (including studies extralimital to the scope this bibliography), studies of Mesozoic strata in the immediate Grand Canyon area, modern-groundwater studies of the region, and general reports on topographic and geologic mapping in the region. Some works relating to the geological aspects of physical geography are also included here, as also are items that relate to the Grand Canyon (or Grand Canyon-like) computerized terrain models. Documents pertaining to the experiences of geological field work in this region are included in this part. Items that relate to the geochemistry of surface and ground waters including springs are cited in [Part 18](#) (PHYSICAL ENVIRONMENT).

See [THE GRAND CANON Volume 2, CARTOBIBLIOGRAPHY OF THE GRAND CANYON AND LOWER COLORADO RIVER REGIONS](#), for guides to topographical quadrangles of the U.S. Geological Survey in the Grand Canyon region.

RELATED MATERIAL

[PART 3](#). [THE NEW YORK TIMES](#) for additional items that relate to this part of the bibliography (which are not repeated in this part)

[PART 6](#). YOUTH for pertinent items that relate to this part of the bibliography

[PART 11, SECTION 2](#). LOWER COLORADO—GEOLOGY for geological and hydrological works about the lower Colorado River region, Lake Mead, Arizona-Nevada, to the Colorado River delta in Mexico. See also Part 11, Section 2 for all citations that pertain to the Peach Springs Tuff (explained in Notes, below)

[PART 13](#). ADMINISTRATION AND MANAGEMENT for material relating to activist concerns over uranium mining in the Grand Canyon region

[PART 17](#). NATIVE AMERICANS for material relating to Native Americans' concerns over uranium mining in the Grand Canyon region

[PART 18](#). PHYSICAL ENVIRONMENT for material relating specifically to water-quality studies of surface and ground waters

[PART 22](#). HYDRAULICS AND HYDROGEOLOGY OF THE COLORADO RIVER for materials relating to the hydrogeologic regime of the Colorado River through the Grand Canyon

[PART 23](#). GEOLOGICAL FIELD GUIDES for specialized geological guides to the Grand Canyon and Colorado River

[PART 24](#). GEOLOGIC MAPS for all geologic maps within the Grand Canyon region [these are also cited in [THE GRAND CANON Volume 2 \(Cartobibliography\)](#)]

(continued)

**Also consult the following separately available productions from
Raven's Perch Media**

PALEONTOLOGY

Bibliography of Paleontology of the Grand Canyon Region and in the Stratigraphic Continuity of Grand Canyon Formations. *4th Edition* (2025).

1.5 MB, 149 pp.

https://ravensperch.org/wp-content/uploads/2025/01/Paleontology_4th-ed.pdf

GROUNDWATERS

Groundwaters of the Grand Canyon Region, Arizona. (2024)

A Research Bibliography of Groundwater Hydrology and the Record of Environmental Issues, Legislative Oversight, and Native American Cultural Concerns of Groundwater Use : with annotations : plus

A Bibliography of Grand Canyon Springs Ecology : 1880–2024

With introduction.

2.7 MB; 102 pp.

<https://ravensperch.org/wp-content/uploads/2024/11/Groundwaters.pdf>

NOTES FOR PART 21

THIS part comprises references to the geology (broadly speaking) of the Grand Canyon region. It includes regional studies that embrace the Grand Canyon, plus material that examines the stratigraphic continuity of the Grand Canyon's formations. Noticeable among these citations are those that pertain to areas outside of the geographical coverage of the main body of THE GRAND CANON (see [map](#)). These extralimital references are important for their focus on correlative stratigraphic and sedimentological analyses that, in turn, reflect upon studies in the Grand Canyon. This is akin to examining the meteorological or climatological aspects of the greater Southwest (as in [Part 18](#) PHYSICAL ENVIRONMENT) since they pertain to effects observed also in the Grand Canyon. Part 21 further includes broad studies of the geologic history of the Colorado River basin, inasmuch as these studies all pertain in some measure to the Grand Canyon and, in turn, the history of the river in the lower Colorado River region. Including these extralimital materials does not greatly inflate the number of citations in this part of the bibliography.

A separate *Bibliography of Paleontology of the Grand Canyon Region and in the Stratigraphic Continuity of Grand Canyon Formations* was compiled from THE GRAND CANON in 2019 to commemorate the centennial of Grand Canyon National Park and National Fossil Day 2019. It is accessible online at <https://ravensperch.org/bibliography-of-paleontology-of-the-grand-canyon-region/> and it is occasionally updated online. Culling these paleontology citations from THE GRAND CANON was an opportunistic effort, not originally a part of the main bibliography. (A paleontological bibliography for material that limits itself only to, or includes data from, Grand Canyon National Park alone would be a labor-intensive effort requiring page-by-page examinations of many of the citations here, and more.) The publications listed in the separate paleontology bibliography are those that have obvious reference to paleontology. There are many more citations that might have been added, particularly those that relate to broad stratigraphic, sedimentological, and paleogeological studies, which by implication should also contain references to fossils; and similarly, texts that embrace the general geology of the Grand Canyon that should include detailed or superficial commentaries on fossils. However, without a wholesale revisit to all of these publications it is not clear which among such titles do contain paleontological data. Part 21 of THE GRAND CANON does contain all citations that relate to the earth sciences for the greater Grand Canyon region.

Part 21 includes numerous extended abstracts of the works by Clarence E. Dutton, most notably his 1882 *Tertiary History of the Grand Cañon District*. While they were essentially reviews of recently published items, they are in fact lengthy extracts, sometimes with editorial notes. For this reason they usually appear in this part rather than in [Part 30](#) (REVIEWS AND

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Many items pertaining to the U.S. Geological Survey expedition (Birdseye Expedition) of 1923 on the Colorado River through Grand Canyon will be found in [Part 2](#) (GENERAL PUBLICATIONS). This expedition principally examined potential sites for dams, but quite a lot of general and public interest material was reported from and about this expedition. Only specifically scientific items relating to the geology of the expedition are included in Part 21.

Added to Part 21 are items that pertain to theoretical and practical computerized analyses of data that utilize the Grand Canyon topographic model. These are not mathematical modeling studies of the development of actual topography of the Grand Canyon but are landscape imaging studies using a Grand Canyon terrain model. Because they use a Grand Canyon elevational data set to analyze the relationships of cells or sets of data points in two- and three-dimensional image representations, I include them within the geology subject area for their use of topographical data sets. But inasmuch as the cited publications do not usually pertain to studies of the actual Grand Canyon, nor are they products that pertain to the canyon, they are not considered for THE GRAND CANON's separate section on Computer and Interactive Media.

Many citations from publications produced by the Geological Society of America include references to supplementary material in the Geological Society of America's Data Repository. Originally, this material could be requested by mail application to the society, and in the early 1990s a compilation of Data Repository items was available on microfiche, but today all of it is accessible online at <https://www.geosociety.org/datarepository/>).

Citations that pertain to the Peach Springs Tuff, named originally for occurrences in northwestern Arizona, are for the sake of bibliographical convenience cited in [Part 11, Section 2](#). The Peach Springs Tuff type locality is near Peach Springs, Mohave County, Arizona, and thus falls more properly into Part 21 of this bibliography. However, the unit has more notably been the subject of detailed studies and correlations throughout the Arizona–Nevada–California region, the tuff source area being identified in the Silver Creek caldera of the southern Black Mountains; a majority of the published work pertains to those correlated occurrences and identification of source area, which occur mostly in the lower Colorado River region.

There are in Part 21 a variety of citations that pertain to material that most geologists and other users will consider to be "fiction"; for example, creationist perspectives of geology and paleontology, the so-called "Electric Universe Theory" that posits massive extraterrestrially sourced electrical charges as a cause of earth topography, and fanciful, off-the-cuff explanations of the formation of Grand Canyon. Regardless, all of these still are "geological" in nature and, even those that are purely fanciful, are not purposely "fiction" (at least in the minds of their authors).

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Publications that relate to creationist and young-earth perspectives of Grand Canyon geology are included in this part with the understanding that this is an ongoing, sometimes tempestuous, field of study that brings ideas of faith up against the tenets and methodologies of empirical and falsifiable science. Accordingly, some users of this bibliography may object to including creationist research with the science-based works of geology. However, these are topically identical so they are not segregated. To assist researchers looking for contrasting perspectives, both for and against creationist-held views embracing the Grand Canyon, these citations are denoted with Item numbers in *colored italics* (for example, *21.6300*).⁸⁶

This section of the bibliography contains a great deal of taxonomic nomenclature of fossil organisms; the so-called binomial nomenclature of genera and species (*Genus species*, in italics) and capitalized proper names of higher taxonomic groups (like phyla, classes, and families, not italicized). Although a citation will be exactly as printed, in notes that may follow it I have taken the opportunity to clarify some of the nomenclatural conventions that may not be intuitive to those who do not practice in these fields. I have indicated as best as I have been able the newly introduced taxa in a publication that come from localities within the geographic embrace of this bibliography. To disambiguate variant usages, in the notes that I append to some citations I use spelled-out phrases to bring attention to these new taxa. For example, "new species" is used instead of the nomenclaturally more conventional "n. sp.", "nov. sp.", "sp. n." or "sp. nov." (which in any case are synonymous terms); likewise for "new genus", "new ichnospecies", or any similar usage with a taxonomic name. In this fashion, too, one may find in this bibliography all such cited occurrences simply by searching for the spelled-out "new species" (etc.). The conventional forms do also appear when they are a part of a title or a quotation.

Omitted from Part 21 are items that pertain to the San Francisco volcanic field. Although this area may be considered together with regional volcanism, such as that of the western Grand Canyon, I have considered the literature on the San Francisco Peaks too great for an area only of the most marginal interest to the Grand Canyon and Colorado River.

Although I have included studies of the stratigraphic continuity of the canyon's formations, I have left out discussions that relate to the canyon's upper Paleozoic strata where they occur at Meteor Crater, east of Flagstaff, Arizona, because these discussions pertain to impact effects rather than to stratigraphic or sedimentological relationships.

⁸⁶ *Colored italics* are used for aesthetic and pragmatic reasons; color to stand out more on the page, italics in the event that a page in this bibliography is reproduced without the benefit of color.

PART 21. GEOLOGY AND PALEONTOLOGY OF THE GRAND CANYON REGION

IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

[GO TO END OF ANONYMOUS IN THIS PART](#)

ANONYMOUS

PUBLICATION NOT DATED: DATE NOT DETERMINED NOR ESTIMATED

- NO DATE 21.1 *The Grand Canyon, a slice of time.* Grand Canyon Natural History Association, pamphlet.
≡ CROSS-LISTINGS [CITED» GCNHA Monograph 2: page 44] [CITED» GCNHA Monograph 8: page 3-13]
- NO DATE 21.2 *Flagstaff Field Center.* [No place]: U.S. Geological Survey, 14 pp.
- NO DATE 21.3901 The Grand Canyon. *Toward the Mark* (InTheBeloved.org), (5). [Serial may be exclusively an online journal.]
- NO DATE *21.6300* *The Array—a work in progress.* [No place]: The Christian Array. [“The ‘Array’ work is a work in progress in loose leaf notebook and CD formats for ongoing upgrading as more facts are learned.”] [See 4.6-4.7, “Impossible for Evolution, The Length of Creation Days”, and 6.1-6.5, “Impossible for Evolution, Grand Canyon as a Proof of the Age of the Earth?”]
- NO DATE *21.6741* Geology and the Deluge. Adapted from *The Death of Evolution* by Wallace Johnson. *The Reign of Mary* (Salve Maria Regina, Seattle, Washington), 41(53): [unpaginated]. [Creationist perspective. Includes Grand Canyon.]
-

PUBLICATION NOT DATED: DATE ESTIMATED, ATTRIBUTED, OR KNOWN FROM ORIGINAL RECEIPT

- NO DATE 21.6498 *The national encyclopædia : a dictionary of universal knowledge : by writers of eminence in literature, science, and art. Volume V.* London, Edinburgh, and Glasgow: William Mackenzie, 512 pp. [1884?] [See “Disintegration”, pp. 27-28, including the note (p. 27): “The Colorado gorges or ravines (locally called cañons) are on an enormous scale; the Grand Cañon of the Colorado is 300 miles long, and in some parts over 6000 feet deep, this depth representing the furrowing of the plateau by the Colorado River.” (ENTIRE NOTE)]
- NO DATE 21.3 *The Grand Canyon : a slice of time.* Grand Canyon Natural History Association, [16] pp. [including wraps]. [1999?] [Revision of pamphlet cited as Anonymous (no date, ITEM NO. 21.1).]

PART 21. GEOLOGY AND PALEONTOLOGY OF THE GRAND CANYON REGION

IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

Anonymous (*continued*)

- NO DATE 21.7814 *The Grand Canyon : une tranche de temps.* Grand Canyon Natural History Association, [16] pp. [including wraps]. [1999?] [Translation of *Grand Canyon : a slice of time.*] [In French.]
- NO DATE 21.7815 *The Grand Canyon : eine scheibe Zeit.* Grand Canyon Natural History Association, [16] pp. [including wraps]. [1999?] [Translation of *Grand Canyon : a slice of time.*] [In German.]
- NO DATE 21.7816 [*The Grand Canyon : a slice of time.*] Grand Canyon Natural History Association, [16] pp. [including wraps]. [1999?] [Translation of *Grand Canyon : a slice of time.*] [In Japanese.]
- NO DATE 21.3935 What is the Grand Staircase? *Utah Geological Survey, Public Information Series*, (64) 2 pp. [1999.]
- NO DATE 21.5771 *Good coordination requires good coordinates! Determining accurate positions for long-term monitoring in Grand Canyon.* [Flagstaff, Arizona]: [U.S. Geological Survey, Grand Canyon Monitoring and Research Center], 2 pp. [March 2012.]

DATED PUBLICATIONS, GROUPED BY YEAR

- 1860 21.5084 [Notice of maps by F. W. von Egloffstein from the Ives expedition.] *In*: Journal of Proceedings [SECTION]. *Academy of Science of St. Louis, Transactions*, 1: 712.
- 1862 21.5085 [Notice of maps by F. W. von Egloffstein from the Ives expedition.] *In*: Proceedings of the Stated Monthly Meeting, May 15, 1862. *Franklin Institute, Journal* (Philadelphia), Series 3, 43 (June): 414-415.
- 1862 21.5154 Colorado River of the West. *The Friend* (Philadelphia), 35(41) (Seventh-day, Sixth month 14 [Saturday, June 14]): 326-327; (42) (Seventh-day, Sixth month 21 [Saturday, June 21]): 330-331; (43) (Seventh-day, Sixth month 28 [Saturday, June 28]): 339-340. ("From 'Silliman's Journal'" [*American Journal of Science and Arts*].) [Abridged from Ives (1861) and Newberry (1861).]
- 1862 21.1580 Colorado River of the West. *American Journal of Science and Arts*, Series 2, 33 (May): 387-403. [Abridged from Ives (1861) and Newberry (1861), both parts in Ives' (1861) overall volume; see [ITEM NOS. 2.3584](#) (Part I) and [21.2455](#) (Part III), respectively.]
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 2: page 36](#) | [CITED» GCNHA Monograph 8: page 3-50, Reviews-1](#) | [GOODMAN 858](#)
- 1862 21.5086 New mode of map engraving. *Mechanics' Magazine* (London), New Series, 8 (July 25): 49. [Notice of maps by F. W. von Egloffstein from the Ives expedition.]
- 1863 21.5088 New mode of map-engraving. *In*: Timbs, John, *The year-book of facts in science and art* [for 1862]. London: Lockwood and Co. [Notice of maps by F. W. von Egloffstein from the Ives expedition.]

PART 21. GEOLOGY AND PALEONTOLOGY OF THE GRAND CANYON REGION

IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

Anonymous (*continued*)

1863	21.5087	New method of map construction. <i>In</i> : Wells, David A. (ed.), <i>Annual of scientific discovery: or, Year-book of facts in science and art for 1863</i> . Boston: Gould and Lincoln, pp. 185-186. [Notice of maps by F. W. von Egloffstein from the Ives expedition.]
1868	21.5831	What correspondents say of Arizona. <i>Weekly Arizona Miner</i> (Prescott), 5(42) (October 17): 1. [See the section, "Formation of the Colorado River."]
1870	21.4407	Die Schluchten des Colorado-Gebietes. <i>Der Naturforscher</i> (Berlin), 3(13) (26 March): 104-105. [<i>In German.</i>]
1872	21.8003	[Kanab Creek gold.] <i>The Bureau</i> (The Bureau Printing Co., Chicago), 3(8) (May): 356. ["Further information, says the Salt Lake <i>Herald</i> , of March 12th, has been received relative to the new gold diggings. The first discovery was made at the mouth of the Rio Virgin by a party of miners from Arizona. The party divided, three going to St. George to look out a route for obtaining supplies, and eighteen following the bed of the river prospecting. They traced the gold up the river to the Kanabwash [<i>sic</i>], where they discovered the gold coming from Buckskin Mountain region with the wash. There they went to work and are making from \$10 to \$18 a day. The extent of the placers is said to be about 24 miles. Large numbers of miners are passing through St. George on their way to the new diggings." (ENTIRE ITEM)]
1873	21.5251	[Notes from J. W. Powell's recent exploration of Colorado River.] <i>In</i> : Notes [SECTION]. <i>Nature</i> (London), 7 (February 13): 290.
1874	21.5702	U.S. survey of the West. <i>In</i> : <i>New-York Tribune, Extra, No. 19, Lectures and Letters</i> , (May): 35-45. [Additional title-page indicates <i>The Tribune. Lecture and Letter Extras. No. 19. Pamphlet Edition.</i>] [<i>New York Tribune.</i>] ≡ CROSS-LISTINGS FQ11:315 [number] FQ24/2:644 [number]
1874	21.5	U.S. survey of the West. The Wheeler exploring expedition. <i>In</i> : <i>Tribune popular science</i> . Boston: Henry L. Shepard and Co., pp. 35-45, map. ("From an occasional correspondent of the Tribune".) ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 3-13]
1875	21.6467	The geological importance of our western explorations. <i>Scientific American, New Series</i> , 33(17) (October 23): 256.
1875	21.6	[Abstract of comments by Clarence E. Dutton on a presentation by John Wesley Powell.] <i>Philosophical Society of Washington, Bulletin</i> (Washington, D.C.), 2: 76. [The "Colorado region" is noted. An abstract of the presentation by Powell appears on pp. 74-76, containing no direction mention of the Grand Canyon region. Other comments, and a concluding comment by Powell, appear on pp. 76-79, also without mention of the Grand Canyon region.]

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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

Anonymous (*continued*)

1876	21.5059	The action of rivers as agents in modifying the surface of the earth. <i>Scientific Monthly</i> , 1(12) (September): 593-604. [See pp. 602-604.]
1876	21.3771	Agencies that formed the Colorado cañons. <i>Popular Science Monthly</i> , 10 (December): 252-253.
1877	21.6240	Geo. M. Wheeler: Report upon Geographical and Geological Explorations and Surveys West of the one hundredth Meridian, under the Direction of A. A. Humphreys. Vol. III. Geology. <i>In</i> : Auszüge [SECTION]. <i>Neues Jahrbuch für Mineralogie, Geologie und Palaeontologie</i> , 1877: 649-650. [Summary of contents and illustrations; Grand Canyon noted, <i>in passing</i> .] [In German.]
1877	21.6241	J. W. Powell: Report on the Geology of the Eastern Portion of the Uinta Mountains and a Region of Country adjacent thereto. <i>In</i> : Auszüge [SECTION]. <i>Neues Jahrbuch für Mineralogie, Geologie und Palaeontologie</i> , 1877: 650-651. [Summary. Grand Canyon noted, <i>in passing</i> .] [In German.]
1881	21.4985	Geology of Utah. <i>In</i> : Science Notes [SECTION]. <i>The Academy</i> (London), 19(New Series, 467) (April 16): 284. [Refers to Dutton's (1880) "Report on the Geology of the High Plateaus of Utah", but not by title.]
1881	21.5145	[Abstract of a presentation to American Association for the Advancement of Science by "C. R. Dutton" (<i>i.e.</i> , Clarence E. Dutton), "on the Grand Cañon of the Colorado River".] <i>In</i> : Proceedings of Societies [SECTION]. <i>Kansas City Review of Science and Industry</i> , 5(5) (September): 306-307.
1882	21.5104	[Summary of lecture by C. E. Dutton on "Excavation of the Grand Cañon of the Colorado River", presented to the American Association for the Advancement of Science.] <i>In</i> : Notes [SECTION]. <i>Nature</i> (London), 25 (April 13): 565-566.
1882	21.6642	[Note.] <i>In</i> : Science Gossip [SECTION]. <i>The Athenæum</i> (London), (2861) (August 26): 278. ["Capt. Clarence E. Dutton, of the United States Geological Survey, communicates to the <i>American Journal of Science</i> for August an interesting article 'On the Tertiary History of the Grand Cañon District, Colorado [<i>sic</i>],' illustrated by a drawing showing the remarkable rocks of Vishnu's Temple, Colorado [<i>sic</i>]." (ENTIRE NOTE)] [Actually refers to the notice by James Dwight Dana (1882, <i>ITEM NO.</i> 30.66).]
1882	21.5207	The work of rivers. <i>Chambers's Journal of Popular Literature, Science, and Art</i> (London), Series 4, 19 (September 9) (976): 569-572. [See p. 571.]
1882	21.5593	The work of rivers. <i>Eclectic Magazine of Foreign Literature, Science, and Art</i> (New York), New Series, 36(6) (December): 777-781. [From <i>Chambers's Journal</i> (Anonymous, 1882, <i>ITEM NO.</i> 21.5207). See pp. 779-780.]
1882	21.4984	Report on the Geology of the High Plateau of Utah von Capt. C. E. Dutton, Washington 1880. <i>In</i> : Sitzungsberichte der niederrheinischen Gesellschaft für Natur- und Heilkunde in Bonn. Bericht über den Zustand und die Thätigkeit der Gesellschaft während des Jahres 1881. <i>Naturhistorischen Vereines der Preussischen Rheinlande und Westfalens, Verhandlungen</i> , 9(4): 35-40. [In German.]

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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

Anonymous (*continued*)

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| 1883 | 21.8 | The Grand Cañon Group. <i>Science</i> , 1 (March): 183-184.
≡ CROSS-LISTINGS CITED» GCNHA Monograph 2: page 44 CITED» GCNHA Monograph 8: page 3-13 GOODMAN 897 THOMAS 712 |
| 1883 | 21.9 | Correlation of Cambrian rocks. <i>Science</i> , 2: 801-802. [Abstract of a paper by C. D. Walcott that was presented to meeting of Philosophical Society of Washington (Washington, D.C.), November 24, 1883.]
≡ CROSS-LISTINGS CITED» GCNHA Monograph 2: page 44 CITED» GCNHA Monograph 8: page 3-13 |
| 1883 | 21.5157 | [Note on Colorado River downcutting and isostatic rebound, citing Archibald Geikie.]
<i>In: The Bookshelf—Scientific</i> [SECTION]. <i>The Continent</i> (Philadelphia), 4(21) (November 21) (93): 672. |
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| 1884 | 21.6513 | [Summary of paper in the <i>American Journal of Science</i> , on "Pre-carboniferous strata in the Grand Cañon of the Colorado, Arizona, by Charles D. Walcott."] <i>In: Scientific Serials</i> [SECTION]. <i>Nature</i> (London), 29 (January 10): 252. |
| 1884 | 21.3802 | ["Two miners report finding a series of footprints in Grand Cañon, Arizona."] <i>Harper's Weekly</i> , 28(1414) (January 26): 63. ["In form they are such as would be made by a bare human foot, but each one, the miners say, is twenty-six inches long and twelve inches wide, and the depth of the imprint at the ball of the foot is six inches. Say that a twelve-inch foot goes to a six-foot man, which is the droughtsman's rule, the man who made these imprints must have been thirteen feet in height. The imprints are evenly eighteen feet apart, which would indicate that he was fairly bounding along."] [Cryptopaleontology. See also Anonymous (1884, <i>ITEM NO.</i> 21.5047).] |
| 1884 | 21.8391 | Geological Survey of the United States. <i>The Mining Journal, Railway and Commercial Gazette</i> (London), 54(2533) (March 8): 284. [Synopsis of Dutton's (1882) "Tertiary History of the Grand Cañon District".] |
| 1884 | 21.6944 | The United-States Geological Survey. <i>Annual reports of the United-States geological survey to the secretary of the interior</i> , ii., iii. J. W. Powell, director. Washington, <i>Government</i> , 1882-83. <i>Science</i> , 4(76) (July 18): 62-71. [Detailed summary of the content of the 2nd and 3rd annual reports of the U.S. Geological Survey. See pp. 63-64, regarding C. E. Dutton's "The Physical Geology of the Grand Cañon District" (in 2nd annual report [Dutton, 1882, <i>ITEM NO.</i> 21.917]).] |
| 1884 | 21.10 | Topographical maps of Arizona. <i>Science</i> , 4 (August 29): 188. [U.S. Geological Survey.]
≡ CROSS-LISTINGS GOODMAN 631 |
| 1884 | 21.6916 | [Remarks on geological structure compared between the Colorado Plateau and Russia.] <i>Nature</i> (London), 30 (October 23): 614. ["The recent works of the United States Geological Survey, and especially the remarkable report of Capt. Dutton, have given an opportunity to Prof. Trautschold of Moscow, to draw a parallel between the geological structure of Colorado and that of European Russia, which appears in the <i>Bulletin</i> of the Moscow Society of Naturalists. Regarding continental subsidence and oceanic inflow, "Similar oscillations might well explain, in Prof. Trautschold's opinion, the structure of the Grand Cañon district, where the connection between the Jurassic |

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Anonymous (*continued*)

- and Triassic is a close as in Russia." Without citation in this item, refers to Clarence E. Dutton (1882, *ITEM NO.* 21.918) and H. Trautschold (1884, *ITEM NO.* 21.4943).]
- 1884 21.6719 "*Department of the Interior. Monographs of the United-States Geological Survey. Vol. II. 4to. Washington, 1882. [AND] United States Geological Survey. J. W. Powell, Director.—Tertiary History of the Grand Cañon District. 4to, 264 pages, with wood-cuts and 42 plates; and folio Atlas of 23 plates of maps and views. By Clarence Dutton, Captain of Ordnance, U.S.A. Washington, 1882.*" *In:* Notices respecting New Books [SECTION]. *London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science, Series 5, 17(109—Supplement): 551-556.*
- 1884 21.5047 Ancienne race humaine. *In:* Nouvelles de Tous les Points du Globe [SECTION]. *L'Exploration* (Paris), 17: 728. [Reported from the *Champion* (Peach Springs, Arizona), "MM. Spencer et Ridenour" (Charles Spencer and William "Bill" B. Ridenour, miners) reported finding large footprints attributed by local Indians to an ancestral race.] [Cryptopaleontology. See also Anonymous (1884, *ITEM NO.* 21.3802).] [*In French.*]
- 1884 21.11 [Abstract of "Tertiary History of the Grand Cañon District", U.S. Geological Survey Monograph 2, by Clarence E. Dutton.] *American Naturalist*, 18: 511-513.
 ≡ *CROSS-LISTINGS* |*CITED*» GCNHA Monograph 2: page 53| |*CITED*» GCNHA Monograph 8: page 3-33|
- 1884 21.4069 Department of the Interior. Monographs of the United-States Geological Survey. Vol. II. 4to. Washington, 1882. United States Geological Survey. J. W. Powell, Director.—Tertiary History of the Grand Cañon District. 4to, 264 pages, with wood-cuts and 42 plates; and folio Atlas of 23 plates of maps and views. By Clarence Dutton, Captain of Ordnance, U.S.A. Washington, 1882. *In:* Notices Respecting New Books [SECTION]. *London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science, Series 5, 17(109) (Supplement): 551-556.*
- 1884 21.5161 [Notice of *Tertiary History of the Grand Cañon District* by C. E. Dutton.] *In:* Notes on new books [SECTION]. *Hardwicke's Science-Gossip* (London): 20: 103.
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- 1885 21.4944 [Canyons of the Colorado, and Arizona.] *From:* Naturwissenschaftliche Sektion. *In:* Sitzungsberichte der niederrheinischen Gesellschaft für Natur- und Heilkunde in Bonn [SECTION]. *Naturhistorischen Vereines der Preussischen Rheinlande, Westfalens und des Reg.-Bezirks Osnabrück, Verhandlungen*, 42 (Series 5, 2): 362-370. [*In German.*]
- 1885 21.5109 [Summary of lecture by A. E. Törnebohm on "Colorado-cañon", presented at meeting of April 24, 1885.] *In:* Sällskapet's förhandlingar [SECTION]. *Ymer* (Svenska Sällskapet för Antropologi och Geografi) (Stockholm), 5(3/4): xx-xxii. [*In Swedish.*]
- 1885 21.7191 [Notice.] *In:* Bibliographie. Premier Semestre de 1885. [SECTION], *Ouvrages Américains* [SUBSECTION]. *Annales des Mines* (Paris), Series 8, Mémoires, 7: XVII. ["*United States Geological Survey. Tertiary history . . . Histoire tertiaire du district du Grand-Canon, par C. E. Dulton* [sic]. In-4°, 264 p., avec atlas in-fol. de 26 doubles feuilles. Washington. 93^f,75." (ENTIRE NOTE)] [Registration of receipt of C. E. Dutton's *Tertiary History of the Grand Cañon District*, U.S. Geological Survey Monograph 2 (1882). Cited here also for the econometric note of price in French francs; and the misspelling of the author's name.] [Ellipsis is as published.] [*In French.*]

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Anonymous (*continued*)

1886	21.8293	Annuaire du Club Alpin Français. XI ^{me} année (1884). Paris, 1885. <i>In</i> : Letteratura ed Arte [SECTION]. <i>Club Alpino Italiano, Rivista Mensile</i> , 5(2) (February 28): 63-64. [See p. 64: "Ancora un dato statistico abbastanza importante: a questo <i>Annuario</i> sono unite ben 47 vedute e figure diverse, oltre una carta topografica e oltre la riproduzione di un acquarello rappresentante il Grand Canon del Colorado, che si riferisce a un articolo pubblicato nell' <i>Annuario</i> precedente." Pertains to Margerie (1884, <i>ITEM NO.</i> 21.4396).] [<i>In Italian.</i>]
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1887	21.5327	"Mount Taylor and the Zuñi Plateau." By Capt. C. E. Dutton. Washington, Government. <i>In</i> : Book-Reviews [SECTION]. <i>Science</i> , 10 (December 30): 317-318. [Includes references to Grand Canyon.]
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1888	21.5261	[Notice of lecture by Charles D. Walcott at meeting of March 2, 1887.] <i>Boston Society of Natural History, Proceedings</i> , 23: 342. ["The President [S. H. Scudder] then introduced Mr. C. D. Walcott of the U. S. Geological Survey, who gave an account of a 'Trip through the Grand Cañon of the Colorado.' Mr. Walcott illustrated his remarks by showing many lantern pictures, presenting to the Society a continuous view of the geology of the Grand Cañon, which he has done so much in elucidating." (ENTIRE NOTE)]
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1888	21.5152	[Abstract of paper by William Barlow, "On the horizontal movements of rocks, and the relation of these movements to the formation of dykes and faults and to denudation and the thickening of strata", presented to Geological Society of London.] <i>In</i> : Reports and Proceedings [SECTION]. <i>Geological Magazine, New Series, Decade 3</i> , 5(6) (June): 284-285.
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1888	21.5367	[Abstract of paper by William Barlow, "On the horizontal movements of rocks, and the relation of these movements to the formation of dykes and faults and to denudation and the thickening of strata", presented to Geological Society of London.] <i>In</i> : Proceedings of Learned Societies [SECTION]. <i>London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science, Series 5</i> , 25 (June) (157): 517-519.
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1889	21.13	The Grand Canyon of the Colorado. <i>Mining and Scientific Press</i> , 59 (July 27): 66. [Article signed "Ex."] ≡ <i>CROSS-LISTINGS</i> <i>CITED</i>» GCNHA Monograph 2: page 14 <i>CITED</i>» GCNHA Monograph 8: page 1-7 GOODMAN 913
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1889	21.4661	Grand Canon District of the Colorado River. <i>Engineering News and American Railway Journal</i> , 22(39) (September 28): 290-291.
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1890	21.5479	A great lode. <i>In</i> : Mining Matters [SECTION]. <i>The Journal "Industry"</i> , 2(23) (June): 167. ["There was last month a great deal of excitement around the Flagstaff district in Arizona, over an alleged discovery of a wonderful ledge in the Grand Cañon of the Colorado. The accounts written are exciting and extravagant; so much so that we expect the paper and ink consumed are a dead loss. The informant who wrote a letter to the <i>Engineering and Mining Journal</i> forgot even to mention what kind of mineral the wonderful ledge—far greater than the Comstock—contained. We are at loss to know
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- how our contemporary finds a column to spare for such sensational recountal.”
(ENTIRE ITEM)]
- 1890 21.14 [Abstract of “Tertiary History of the Grand Cañon District”, U.S. Geological Survey Monograph 2, by Clarence E. Dutton.] *Liverpool Geological Association, Journal*, 9: 49-55.
≡ *CROSS-LISTINGS* |*CITED*» GCNHA Monograph 2: page 53| |*CITED*» GCNHA Monograph 8: page 3-33|
- 1890 21.5981 *Meyers Konversations-lexikon. Eine Encyclopädie des allgemeinen Wissens. Vierte, gänzlich umgearbeitete Auflage. Siebzehnter Band. Ergänzungen und Nachträge.—Register.* Leipzig and Wien: Verlag des Bibliographischen Instituts, 1059 [1060] pp. [See “Thäler”, pp. 788-791, and plate, “Thalbildungen”, between pp. 788-789. Includes Grand Canyon illustrations (plate, Figure 1, “Innere Schlucht des Grand Cañon von Colorado bei Toroweap.”)], and p. 790 in text (Figure 1, “Querprofil durch den Cañon des Colorado”; after Dutton, without credit.)] *[In German.]*
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- 1891 21.5770 The International Geological Congress. *American Naturalist*, 25 (October): 942-950. [5th International Geological Congress.]
- 1891 21.7781 Fifth International Congress of Geologists. *Goldthwaite’s Geographical Magazine* (New York), 2(10/11) (November 1): 688-691. [See p. 691, Grand Canyon, *in passing.*] [5th International Geological Congress.]
- 1891 21.4651 Congresso geologico internazionale. *In*: Notizie Diverse [SECTION]. *Reale Comitato Geologico d’Italia, Bollettino*, Series 3, 2(1): 76-78. [See p. 78.] [Notice of 5th International Geological Congress.] [See also a summary of the congress, “Quinta sessione del Congresso geologico internazionale” *in* Notizie Diverse [SECTION], 2(3): 193-198 (see specifically p. 198), but which does not mention the Grand Canyon visit specifically.] [Volume title-page gives Volume 22 (cumulative).] *[In Italian.]*
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- 1892 21.4068 [“Dem Geological Survey der Vereinigten Staaten”.] *In*: Vermischtes [SECTION]. *Naturwissenschaftliche Rundschau*, 7(10) (March 5): 130-132. [See p. 131, mention of Powell and Wheeler expeditions.] *[In German.]*
- 1892 21.5455 [Synopsis of lecture by Prof. Dr. Credner of Leipzig, on “Colorado-Plateau und dem Grand Cañon (sprich Canyon)”.] *In*: Aus wissenschaftlichen Gesellschaften [SECTION]. *Export* (Berlin), 14(13) (March 31): 201-202. *[In German.]*
- 1892 21.7561 Arizona notes. *The Age of Steel* (St. Louis, Missouri), 72(4) (July 23): 16. [Includes: “Rich native copper mines have recently been located in the Grand Canyon on the Arizona side [*sic*]. The ledge varies in width from two to six feet, and over one foot of it is of native copper. From present indications the Grand Canyon will soon be shipping ore regularly.” (ENTIRE NOTE)]
- 1892 21.15 Einen Besuch des Colorado Cañon in Arizona. *Gaea—Natur und Leben* (Köln), 28(5): 297-299. *[In German.]*
- 1892 21.5074 [Notice of presentation by Prof. H. Golliez on the Grand Canyon.] *From*: Sektion für Mineralogie und Geologie. *In*: Protokolle der Sektions-Sitzungen. *Verhandlung der Schweizerischen Naturforschenden Gesellschaft bei ihrer Versammlung zu Basel*

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- den 5., 6., und 7. September 1892. 75. Jahresversammlung. / Actes de la Société Helvétique des Sciences Naturelles Réunie a Bale les 5., 6., et 7. Septembre 1892. 75. Session.* Basel: Emil Birkhäuser, pp. 60-61. [In German.]
- 1892 21.5446 [Report regarding C. Schmidt and H. Golliez, Swiss delegation of the Federal Council mission to America [*i.e.* 5th International Geological Congress].] *From:* Minéralogie et Géologie [SUBSECTION]. *In:* Soixante-quinzième session de la Société Helvétique des Sciences Naturelles réunie a Bale; les 5, 6, et 7 septembre 1892 [SECTION]. *Compte Rendu des Travaux présentés a la soixante-quinzième session de la Société Helvétique des Sciences Naturelles réunie a Bale les 5, 6, et 7 septembre 1892.* Genève: Bureau des Archives; Lausanne: Georges Bridel; and Paris: G. Masson; dépôt pour l'Allemagne, H. George, a Bale, pp. 66-69. (*Archives des Sciences Physiques et Naturelles*, (October/November).) [Includes notices of report by Golliez regarding "Grand Canion du Colorado" [*sic*], pp. 68-69.] [In French.]
- 1892 21.7328 Sitzung am 9. Dezember [1891]. *In:* Das Vereinsjahr 1891/92 [SECTION]. *Vereins für Erdkunde zu Halle, Mitteilungen* (Thüringisch-Sächsischen Gesamtvereins für Erdkunde, Halle), 1892: 263-264. [Includes notice of lecture by "Privatdozent Dr. [Fritz] Frech", which included "großartigen Cañon-Erosionen des Colorado-Systems, von denen zumal der Grand Cañon von Arizona eine wahre Musterkarte aller Gesteinsarten darbietet".] [In German.]
- 1892 21.7329 Verein für Erdkunde zu Halle. *In:* Berichte von anderen geographischen Gesellschaften in Deutschland [SECTION]. *Gesellschaft für Erdkunde zu Berlin, Verhandlungen*, 19(1): 85. [Includes notice of lecture by "Privatdozent Dr. [Fritz] Frech", which included "großartigen Cañon-Erosionen des Colorado-Systems, von denen zumal der Grand Cañon von Arizona eine wahre Musterkarte aller Gesteinsarten darbietet".] [In German.]
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- 1893 21.5123 ["Rich strike" of gold found in Grand Canyon.] *The Deseret Weekly*, (January 14): 117.
- 1893 21.5620 ["Rich strike" of gold found in Grand Canyon.] *In:* Notes [SECTION]. *Public Opinion*, 14(15) (January 14): 361. ["A rich strike of gold is reported to have been made in the Grand Canon of the Colorado, seventy miles north of Flagstaff, Ariz. . . ." (ENTIRE NOTE)]
- 1893 21.6138 The railroad survey of the Colorado River. *Engineering and Mining Journal*, 55(3) (January 21): 59. [Stanton survey for the Denver, Colorado Cañon & Pacific Railroad. Focus is on the mineral resources of the route.]
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 14| |CITED» GCNHA Monograph 8: page 1-7| GOODMAN 938
- 1893 21.4876 [Archibald Geikie remarks relating to future history of Colorado River's excavation of Grand Canyon.] *In:* Notes [SECTION]. *Popular Science Monthly*, 24 (November): 143-144.
- 1893 21.6146 [Mining.] *Mining and Scientific Press*, 67(25) (December 16): 398. ["A number of men have quit the White Hills and have gone into the Grand Canyon country in search of gold and copper. They claim to have a pointer on some good gold property in Diamond Creek country." (ENTIRE ITEM)]

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| 1894 | 21.5191 | [Gold in Grand Canyon.] <i>In</i> : The Miscellany [SECTION]. <i>The Statistician and Economist, 1893-94</i> . San Francisco and New York: L. P. McCarty, p. 563. ["Gold has been discovered in the Grand Cañon of the Colorado, 70 miles north of Flagstaff, Ariz." (ENTIRE NOTE)] |
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| 1895 | 21.5048 | [News report.] <i>In</i> : Summary of Events [SECTION]. <i>The Friend</i> (Philadelphia), 68(52) ("Seventh-day, Seventh Month 20, 1895" [Saturday, July 20]): 416. ["A dispatch from Peach Springs, Ariz., to the San Francisco <i>Chronicle</i> says: One of the largest silver nugget on record was found about four miles from this place several days ago. Two prospectors on their way from Death Valley discovered a bowlder weighing several hundred pounds, composed of nearly pure silver. The value is placed at about \$10,000." (ENTIRE NOTE)] |
| 1895 | 21.5137 | The University of Utah. <i>In</i> : The University World [SECTION]. <i>American University Magazine</i> , 3(1) (November): 81. [Includes note of field trip under J. E. Talmadge to "the canons of the Paria, the Kanab Desert, Kaibab Plateau, and Glen Canon, Marble Canon and Grand Canon of the Colorado."] |
| 1895 | 21.5360 | [Report of the librarian.] <i>In</i> : Sitzung des naturwissenschaftlichen Vereins; Montag, den 14. October 1895 [SECTION]. <i>Helios</i> (Naturwissenschaftlichen Vereins des Regierungsbezirkes Frankfurt), 13(8/9) (November/December): 125. [Includes notice of receipt of 69 large atlases from the "Geological Survey zu Washington" (U.S. Geological Survey), valued at 250 Marks. Specially noted, <i>in passing</i> , is the volume on the Tertiary history of the "grossen Cangons [<i>sic</i>] des Coloradoflusses".] [<i>In German.</i>] |
| 1895 | 21.6672 | [Minutes of the Geological Section for March 20, 1894.] <i>In</i> : Reports of Meetings [SECTION]. <i>Birmingham Natural History and Philosophical Society, Journal</i> (Birmingham, England), 1: 16. ["Mr. W. P. Marshall read a paper on 'The Grand Cañon of the Colorado River, Arizona.' The paper was illustrated by diagrams, maps, and water colour drawings. Mr. Councillor Wallis gave a description of his visit to the Cañon, with a detailed account of Hance's Trail. Dr. Lapworth suggested the probable cause of the formation of the Cañon. A cordial vote of thanks was given to Mr. Marshall for his paper." (ENTIRE NOTE) See ITEM NO. 21.5037 for citation of Marshall's (1894) published paper.] |
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| 1896 | 21.6693 | Grand Canyon copper mine. <i>In</i> : Mining News [SECTION]. <i>The Mining Industry and Review</i> (Denver), 16 (February 20): 389. [Under subsection, "Arizona": "Grand Canyon Copper Mine.—Assays on ore from Sheriff Cameron's Grand Cañon copper mine arrived from Denver, Colo., last week. The ore runs as high as \$186 copper, \$250 gold and \$11.20 silver. The indications point to a practically inexhaustible supply of the mineral, and the probabilities are for a richer grade as the mine is developed. There is enough gold and silver in the ore to pay for working the mine. Another team is expected in soon, when a car of about 15 tons in all, will be shipped to the smelter at El Paso. The Cameron mine is surely a strong inducement for the building of the Flagstaff and Grand Cañon road." (ENTIRE ITEM) Credited to "Flagstaff Democrat".] |
| 1896 | 21.6694 | [Note.] <i>In</i> : Mines and Gossip [SECTION]. <i>The Mining Industry and Review</i> (Denver), 16 (February 27): 393. ["The people in the northern part of Arizona have circulated a |

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- petition to Congress for the exemption of the mineral lands within the boundaries of the Grand Cañon forest reserve from the provisions of the reservation so that they may be worked. It is believed that rich mines will be found in that district." (ENTIRE ITEM)]
- 1896 21.6142 [Unkar Group igneous strata.] *In*: Petrographical News [SECTION]. *American Naturalist*, (March): 210. ["In a few notes on the surface lava flows associated with the Unkar beds of the Grand Cañon series in the Cañon of the Colorado, Ariz., Iddings briefly describes compact and amygdaloidal basalts and fresh looking dolerites that are identical in all respects with modern rocks of the same character." (ENTIRE NOTE)]
- 1896 21.7848 Summary of current pre-Cambrian North American literature. *Journal of Geology*, 4(3) (April/May): 362-372. [See p. 372, summary of C. D. Walcott's "Algonkian Rocks of the Grand Canyon of the Colorado" and U.S. Geological Survey 14th Annual Report (1895).]
- 1896 21.6997 *The American encyclopædic dictionary. Unabridged edition revised to date. Volume III.* Chicago: W. B. Conkey Co., pp. 2305-3456. [See entry, "mar'-ble, *mar-bel, *mar-bre, *mar-bre-ston" (pp. 2628-2629); specifically (p. 2628), "Geol., Petrol., Sculp. & Building Stones: . . . (Statuary Marble.) . . . The Grand Cañon of the Colorado is lined in many places with magnificent marble of various colors." (ENTIRE NOTE)]
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- 1897 21.5630 A windy well. *In*: Here and There [SECTION]. *The Christian Work*, 62 (January 21): 115. [Air currents from earth cracks in Arizona; specifically one encountered in the drilling of a well by Mr. Coufman "at his place". "It is supposed that there is an underground opening between the Grand Canyon of the Colorado, which cleaves the earth to a depth of more than a mile, and the Sycamore Canyon, some eighty miles to the south of it, of the same proportions, but much shorter." Credited to *Popular Science Monthly* [*sic*; *i.e.*, *Popular Science News* (see Harvey, 1896, [ITEM NO. 21.8272](#)).]
- 1897 21.5461 The copper mines of Arizona. *In*: In the American Press [SECTION]. *Engineering Magazine*, 13(1) (April): 113. [Synopsis of item by Arthur Lakes in *The Colliery Engineer and Metal Miner* (February 1897); including: "Large deposits of sulphid [*sic*] of copper exist 'in the region of the Grand Cañon . . . which only await the advent of transportation facilities to become large producers.'" (ENTIRE NOTE) Ellipsis is part of quotation.]
- 1897 21.7418 [Grand Canyon copper mines.] *In*: Concentrates [SECTION]. *Mining and Scientific Press*, 85(3) (July 17): 47. ["General W. W. O'Neill has interested Eastern capitalists with himself to develop copper mines in the Grand Canyon of the Colorado, in Arizona. Four camps have been established at points where development work is being done. Nature in this case, in cutting the wonderful canyon, has done a good deal of developing herself." (ENTIRE ITEM)]
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- 1898 21.4877 Sketch of Charles D. Walcott. *Popular Science Monthly*, 52 (February): 547-553.
- 1898 21.7008 [Smelter construction.] *In*: Trade Notes [SECTION]. *Power and Transmission* (Mishawaka, Indiana), 13(2) (February): 15. ["Lombarde[,] Good & Co., Marquette building, Chicago, are installing a 60-ton smelter at Williams, Ariz., to be used in the

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- reduction of copper ore from the firm's mine near the Grand Canon of the Colorado [*i.e.*, Anita]. The machinery is on the ground and the work has begun, it being the intention of the company to have the smelter in operation if possible by the 15th of next month. Work on the railroad to be built from Williams to the Grand canon [*sic*], to connect with the copper mines, will start on the 15th inst." (ENTIRE ITEM)]
- 1898 21.7501 Arizona. Coconino County. *In*: General Mining News [SECTION]. *The Engineering and Mining Journal and Coal* (New York), 65(12) (March 19): 350. ["Tusayan Development Company.—The company is having two 40-ton water jacket smelting furnaces erected at this copper reduction works near the Grand Canyon of the Colorado [*i.e.*, Anita], 60 miles north of Williams." (ENTIRE ITEM)]
- 1898 21.7175 *Diccionario enciclopédico Hispano-Americano de literatura, ciencias y artes. Tomo Vigésimo Cuarto, Apéndice.* Barcelona: Montaner y Simón, 1204 pp. [See "Cañón", pp. 415-417, which is mostly about Grand Canyon.] [*In Spanish.*]
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- 1899 21.6121 [Colorado River placers above Lees Ferry, in charge of R. B. Stanton.] *In*: Mining Summary [SECTION]. *Mining and Scientific Press*, 78(8) (February 25): 211.
- 1899 21.6120 The Grand Canyon of the Colorado as a mining field. *Mining and Scientific Press*, 78(19) (May 13): 512. ("Written for the Mining and Scientific Press.")
- 1899 21.6119 [Colorado River placers "between Dandy Crossing and Lee's ferry"; Hoskinini Gold Placer Co.] *In*: Mining Summary [SECTION]. *Mining and Scientific Press*, 78(22) (June 3): 592.
- 1899 21.6932 [Note.] *In*: Mining News [SECTION], Arizona [SUBSECTION]. *Mining Reporter* (Denver), 40(5 [*sic*, 6]) (August 10): 98. ["A phenomenal ledge of clear mica is said to have been discovered in a ravine coming into Grand Canon, from the north. Sheets of mica four feet square, according to the report, were detached from the ledge." (ENTIRE NOTE)]
- 1899 21.6933 [Platinum and aluminum in Havasu Canyon.] *In*: Mining News [SECTION], Arizona [SUBSECTION]. *Mining Reporter* (Denver), 40(20) (November 16): 305. ["The discovery of platinum and aluminum in Cataract Canon caused an influx of immigration to that district. Late assays run over \$200 per ton." (ENTIRE NOTE)]
- 1899 21.5669 Kanab [NEWS]. *Deseret News*, (December 15): 7 [issue pagination]. ["There is some activity in mining circles, both on the 'Buckskin Mountains' [Kaibab Plateau] and on the Colorado river, the latter being placer gold mining." (ENTIRE NOTE)]
- 1899 21.5782 *A treatise on prospecting : blowpiping, mineralogy, assaying, geology, prospecting, placer and hydraulic mining : with practical questions and examples and answers to questions.* Scranton, Pennsylvania: International Correspondence Schools, SEPARATELY PAGINATED SECTIONS. [See "Prospecting" (59 pp.), p. 52, item 114, with note, "Some . . . ore-bodies occur in the great cliffs of the Grand Cañon of the Colorado, and are rather inaccessible to railroads." (ENTIRE NOTE)]
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- 1900 21.5670 Colorado River placers. Seventy-five claims located—Question if gold can be profitably gathered. *Deseret News*, (January 15): 7 [issue pagination]. (From *Panguitch Progress*.) [Robert Brewster Stanton claims.]

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- 1900 21.5671 Activity in the south. Will resume work on Copper Mountain Company's property. *Deseret News*, (March 3): 6 [issue pagination]. [Includes other news items; among them: "Mr. Thos. Jennings is here from Salt Lake, on his way down to the Grand Gulch mine, for the purpose of looking out [*sic*] a road to take the ore south across the Colorado river. The mine has made a good strike in the new shaft, and as a whole is looking very promising." (ENTIRE NOTE)]
- 1900 21.5672 Mining notes. *Deseret News*, (April 12): 6 [issue pagination]. ["Major Robert B. Stanton, who is largely interested in the gold bearing sands of the Colorado river, has arrived from the East." (ENTIRE NOTE)]
- 1900 21.5673 Giles [news from]. *Deseret News*, (April 26): 7 [issue pagination]. ["There are about 300 tons of freight to go through here down to the Colorado river placer mines, and much of it will be hauled by local teams and wagons." (ENTIRE NOTE)]
- 1900 21.5674 Dredge to be built. Will handle 2000 yards per day of the sands of Colorado River. *Deseret News*, (April 28): 6 [issue pagination]. [Stanton operation.]
- 1900 21.5675 Kanab [NEWS]. *Deseret News*, (May 11): 7 [issue pagination]. [". . . the copper smelters going up on the Buckskin Mountains [Kaibab Plateau], 35 miles south of us, promise ample employment for our surplus labor and a market for all of our agricultural products." (ENTIRE NOTE)]
- 1900 21.5676 Mining notes. *Deseret News*, (May 24): 6 [issue pagination]. [Includes note of Thomas Jennings and (not mentioned by name) Grand Gulch Mine.]
- 1900 21.5677 Riches of the Grand Gulch. Thomas W. Jennings returns today from northern Arizona. *Deseret News*, (May 26): 6 [issue pagination].
- 1900 21.5938 [Note.] *In*: Personal [SECTION]. *Engineering News and American Railway Journal*, 43(24) (Supplement, June 14): 197. ["Supplement" is a separately paginated part added to each number and enumerated consecutively through the volume.] ["Professors Herbert E. Gregory, of Yale; R. E. Dodge, of Columbia; W. M. Davis, of Harvard; and Dr. Anderson, of Cambridge, Eng., have formed a party for the exploration of the Grand Canyon of the Colorado River." (ENTIRE NOTE)]
- 1900 21.5210 Exploration in Arizona. *The Gardeners' Chronicle*, Series 3, 27 (June 23) (704): 403. [Expedition under Prof. Beecher, Yale University, plans "to make an exhaustive exploration of the petrified forests of Arizona and the Grand Canyon of Colorado [*sic*] in quest of geological specimens. Professor Beecher has the co-operation of six other eminent geologists in arranging the expedition, which, according to present arrangements, will start in August."] [Charles E. Beecher.]
- 1900 21.7033 [Note.] *Friends' Intelligencer* (Philadelphia), 57(25) (Sixth Month 33 [June 23]): 497. ["A scientific expedition, consisting of a number of Yale professors, and some students, will leave New Haven, Ct., in August for a trip of several weeks into the petrified regions of Nevada and into the Grand canyon, in search for geological specimens for the Peabody museum. Prof. Charles E. Beecher, curator of the museum, will be in charge. The party also will journey to the Pacific coast." (ENTIRE ITEM)]

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Anonymous (continued)

1900	21.5678	Colorado River placers. Big preparations for mining being made by a number of companies. <i>Deseret News</i> , (August 23): 6 [issue pagination].
1900	21.6269	Grand Canyon Copper Mining Co. <i>In</i> : Mining Inquiries [SECTION]. <i>United States Investor</i> , 11(40) (October 6): 28 [also concurrently paginated for volume, 1292].
1900	21.5679	Colorado River placers. John and David Day have a new method of saving the gold. <i>Deseret News</i> , (November 16): 2 [issue pagination].
1900	21.6270	Cardenas Copper Co. <i>In</i> : Mining Inquiries [SECTION]. <i>United States Investor</i> , 11(40) (November 24): 8 [also concurrently paginated for volume, 1588]. [Includes Tusayan Development Co.]
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1901	21.5590	[Caconine Copper Co.] <i>Western Electrician</i> , 28(13) (March 30): 223. ["Articles of incorporation of the Caconine Copper company have been filed with the clerk of Hudson County, N.J. [. . .] It is said it will control 31 mines, water rights, etc., in the Kaibab Mountains, Caconine County, Ariz." Listed incorporators are from the eastern U.S., except for Aquila Nebeker of Utah.] [Coconino Copper Co., Coconino County.]
1901	21.6623	[Note.] <i>In</i> : Personal and Scientific News [SECTION]. <i>American Geologist</i> , 28(2) (August): 133. ["Professor W. M. Davis is in the west, on a second geological trip to the Grand Cañon." (ENTIRE NOTE)]
1901	21.5680	Prospecting in Grand Canyon. <i>Deseret News</i> , (August 3): 6 [issue pagination]. [Robert Baumgarth "with mighty rich samples of copper-silver ores which he reports having found away down in the Grand Canyon". Also notes of Coconino and Petroskey claims.]
1901	21.5596	Early American giants. <i>The Christian Work</i> , 71 (August 15): 239. [Cryptopaleontology. Fossilized human "giant" in Grand Canyon; story related to the author by "Mr. Hull" when the author visited Hance Trail. Hull had been directed to the "giant" by Indians.]
1901	21.7510	Coconino County. <i>In</i> : Mining Summary [SECTION]. <i>Mining and Scientific Press</i> , 83(10) (September 7): 102. ["The Last Chance mine and millsite in the Grand canyon [<i>sic</i>] has been sold by R. H. Cameron, E. I. Gale, P. D. Berry and N. Cameron to H. T. Barbour, representing Eastern people, the price being \$35,000. Work will begin at once on the mine. C. H. McClure is Supt." (ENTIRE NOTE).]
1901	21.6768	In a petrified forest. <i>The Friend</i> (Philadelphia), 75(18) (November 16): 142. [Credited to <i>Chicago Record</i> .] [About Petrified Forest of Arizona. Includes note of deposition in a lake. "All this took place before the existence of the Grand canon [<i>sic</i>] of the Colorado. When nature formed that big ditch the lake was drained, and the water, in its rush to the northwest, leveled the stone trees, breaking them off as smooth as if they had been sawed. This sustains the theory that the trees were petrified where they grew. [¶] The fact that nearly all the fallen trunks lie in one direction and to the northwest maintains the theory that the lake emptied to the northwest and into the Grand canon."]
1901	21.8289	[Note of John Hance.] <i>In</i> : Mining Summary [SECTION]. <i>Mining and Scientific Press</i> , 83(22)(2158) (November 30): 235. ["J. Hance of Flagstaff is now Supt. of the

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		asbestos mines in the Grand canyon. He will start work at once and during the winter will employ twenty men. No asbestos will be shipped at present." (ENTIRE ITEM)]
1901	21.5783	[Note of William Morris Davis paper in <i>Géographie</i> .] <i>In</i> : Notes [SECTION]. <i>Nature</i> (London), 65 (December 26): 180. [Refers to Davis (1901, ITEM NO. 21.811).]
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1902	21.6128	Dr. C. B. in G. <i>In</i> : Sprechsaal [SECTION]. <i>Die Umschau</i> , 6(36) (August 30): 720. [Grand Canyon, where Algonkian strata are well developed, noted <i>in passing</i> .] [<i>In German.</i>]
1902	21.5392	Monumentos de fondo del mar. <i>Alrededor del Mundo</i> (Madrid), (184) (December 12): 386. [Grand Canyon discussed in this item about submarine canyons.] [<i>In Spanish.</i>]
1902	21.17	Map of the Colorado Cañon. <i>American Geographical Society, Bulletin</i> , 34: 366-367. [Regarding the topographic mapping project by François E. Matthes.]
1902	21.6137	Jak je stará naše země? <i>In</i> : Hlidka kosmická [SECTION]. <i>Vlast'</i> (Praze), 18: 1066-1067. [Grand Canyon and Colorado River, p. 1067.] [<i>In Czech.</i>]
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1903	21.5128	New survey of the Grand Cañon. <i>The Pacific Unitarian</i> , 11(3) (January): 100-101. [François E. Matthes mapping.]
1903	21.5610	Anita Consolidated Copper Co. <i>In</i> : Mining Inquiries [SECTION]. <i>United States Investor</i> (A Journal of Greater America), 14(2) (January 10): 74 [also separately paginated for the issue, p. 34].
1903	21.7673	The map of the Grand Canyon. <i>The School Journal</i> , 76(2) (January 10): 56. [François E. Matthes mapping.]
1903	21.5942	[Regarding topographical map of Grand Canyon.] <i>Friends' Intelligencer</i> (Philadelphia), 60(3) (January 17): iii [inside back wrapper]. ["An accurate topographical map of the Grand Canon of the Colorado is being made for the government. It shows a width of the canon of from eight to ten miles, and an average depth of one mile." (ENTIRE ITEM)]
1903	21.6600	Arizona. <i>In</i> : Mining News [SECTION]. <i>Mining Reporter</i> (Denver), 47(5) (January 29): 110-111. [See p. 110, regarding "a new smelter" invented by W. L. George of Williams, Arizona, and notice of "good properties" in the Grand Canyon area.]
1903	21.4918	["The United States Geological Survey is at work on a new map of the Grand Canyon of Arizona."] <i>American Engineer and Railroad Journal</i> , 77 (February): 49.
1903	21.6620	Grand Canyon map. <i>The American Inventor</i> (Washington, D.C.), 10(6) (February 1): 99. [Regarding the topographic mapping project by François E. Matthes.]
1903	21.6228	[Grand Canyon asbestos.] <i>In</i> : Western Mining News of the Week. <i>Pacific Coast Miner</i> (San Francisco), 7(8) (February 21): 145. ["Asbestos is now being mined in the Grand Canyon by the Hance Asbestos Company. About twenty men are employed. The mine is down in the canyon, and the asbestos has to be packed on mules' backs to the rim. A mile of elevation has to be gained in about five miles of climbing." (ENTIRE ITEM)]

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Anonymous (*continued*)

- 1903 21.6229 [Azurite Copper Co.] *In*: Western Mining News of the Week. *Pacific Coast Miner* (San Francisco), 7(10) (March 7): 178. ["The Asurite [*sic*] Copper Company has a property 35 miles north of Williams, Arizona, on the line of the Williams and Grand Canyon Railroad. A smelter has been erected at Williams to work on what is known as the 'George process.' It is said that this process has passed beyond the experimental stage. On the mines there are said to be large outcrops of medium grade ore." (ENTIRE ITEM)]
- 1903 21.6230 [United Gold and Plantinum Co.] *In*: Western Mining News of the Week. *Pacific Coast Miner* (San Francisco), 7(12) (March 21): 228. ["The United Gold and Platinum Company have a big scheme on hand. They own the platinum claims in Cataract canyon, in Coconino county, Arizona, and propose to build a 50-ton smelter there. The water from Beaver falls will be utilized for power, and an electric railroad will connect the plant with the Santa Fe or Grand Canyon railroad." (ENTIRE ITEM)]
- 1903 21.5497 Survey of the Grand Canyon. *National Geographic Magazine*, 14(4) (April): 162-163. [Regarding the topographic mapping project by François E. Matthes.]
- 1903 21.6601 [United Gold and Platinum Mines Company.] *In*: Mining News [SECTION]. *Mining Reporter* (Denver), 47(14) (April 2): 317. ["A big enterprise is projected for Cataract canon, a branch of the Grand canon, in northern Arizona. A year ago there was great excitement over alleged platinum discoveries which, however, did not pan out. But most of the ground then located was acquired by the United Gold and Platinum Mines Company, which proposes to erect a large smelter below Beaver falls and below the famous Bridal Veil falls. The ores of the district have been tested and it is believed will yield to the new process treatment proposed by this company, after the invention of Dr. Henig of Germany." (ENTIRE NOTE)]
- 1903 21.5143 Eine Neuaufnahme des Cañons des Colorado. *In*: Kleine Nachrichten [SECTION]. *Globus* (Illustrierte Zeitschrift für Länder- und Völkerkunde) (Braunschweig), 83(14) (April 9): 227. [Credited to "Bull. of the American Geogr. Soc. 1902, 4." (*i.e.*, Anonymous, 1902, *ITEM NO.* 21.17).] [Regarding the topographic mapping project by François E. Matthes.] [In German.]
- 1903 21.5681 A lucky find. Claims near Point Sublime, Arizona, proving up well. *Deseret News*, (April 15): 6 [issue pagination]. [Royal Wooley and Eugene Roberts copper claim.]
- 1903 21.5068 Un nuovo rilevame to del cañon del Colorado. *In*: Notizie ed Appunti [SECTION]. *Società Geografica Italiana, Bollettino*, Series 4, 4(4/5) (April/May) [anno 38, volume 40]: 421. [Credited to "Globus, Brunsvik, n. 14, 1903" (*i.e.*, Anonymous, 1903, *ITEM NO.* 21.5143).] [Regarding the topographic mapping project by François E. Matthes.] [In Italian.]
- 1903 21.5144 Nord-Amerika. *In*: Geographische Neuigkeiten [SECTION]. *Geographische Zeitschrift* (Leipzig), 9(6): 347-348. [New topographic map of Grand Canyon from U.S. Geological Survey; *i.e.*, the topographic mapping project by François E. Matthes. Credited to *National Geographic Magazine*, 1903: 162 (Anonymous, 1903, *ITEM NO.* 21.5497).] [In German.]
- 1903 21.8353 Utah's still increasing precious metal output; a record to be proud of. *Pacific Coast Miner* (San Francisco), 7(25) (June 20): 158. [Includes: "The gold placers in the Grand Canyon of the Colorado River are said to be very promising. 'Eminence' dredgers are used, and the gravel runs from 25 to 75 cents per cubic yard. The

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- Hoskianna [*sic*] Gold Mining Company and the Good Hope Mining Company are carrying on extensive operations. The former has already expended \$250,000 in preliminary work, while the latter is installing an electric plant for the purpose of raising water to the river bank. The center of activity is at a point about 120 miles from the railroad station of Green River. Professor Stanton, who explored the Grand Canyon of the Colorado, is operating one of the dredges." (ENTIRE NOTE) Robert Brewster Stanton's Hoskininni Mining Co., Glen Canyon.]
- 1903 21.6684 From our special correspondent. *In*: Western Mining News of the Week [SECTION]. *Pacific Coast Miner* (San Francisco), 8(4) (July 25): 67. [Communique dated Phoenix, Arizona, July 15. Includes: "Government representatives are visiting the Grand Canyon of the Colorado to pass on certain mineral locations made there. The claim has been made that considerable territory is held under mining locations and ostensibly for mining purposes, but really for grazing purposes. The reports will determine the status of a great many mineral locations." (ENTIRE NOTE)]
- 1903 21.5682 How the Grand Canyon was formed. *Deseret News*, (August 22): 24 [issue pagination]. [Short extract from Roger Pocock article in *Pearson's Magazine* for July (Pocock, 1903, ITEM NO. 2.12912).]
- 1903 21.5933 Anita Copper Company. *In*: Mining Inquiries [SECTION]. *United States Investor*, 14(41) (October 10): 5 [concurrently paginated for volume, 1713].
- 1903 21.6123 Der Grand Canon. *In*: Notizen [SECTION]. *Zeitschrift für Schul-Geographie*, 24(12): 386. [New topographic map of Grand Canyon from U.S. Geological Survey; *i.e.*, the topographic mapping project by François E. Matthes. Credited to *National Geographic Magazine*, 1903: 162 (Anonymous, 1903, ITEM NO. 21.5497) and *Geographische Zeitschrift*, 1903(6) (Anonymous, 1903, ITEM NO. 21.5144).] [In German.]
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- 1904 21.6464 Earlham College. *The Educator-Journal* (Educator-Journal Co., Indianapolis, Indiana), (June): 468-469. [See p. 468: "Prof. Allen D. Hole has been granted a leave of absence for the winter and spring terms of next year. Prof. Hole will spend the summer in geological work in Wisconsin, Colorado and the Grand Canyon of the Colorado river, and during the winter and spring will be in residence at the University of Chicago." (ENTIRE NOTE)] [Serial title thus.]
- 1904 21.5684 Mining company formed. *Deseret News*, (July 29): 6 [issue pagination]. [Hermet Gold and Copper Mining and Smelting Co.; articles of incorporation filed. Properties "situate in the Grand Canyon Mining district, Coconino county, Ariz."]
- 1904 21.5477 Hermet Gold and Copper M. and S. Company. *In*: Mining News [SECTION], Arizona; Coconino County [SUBSECTION]. *Mining Reporter* (Denver), 50(6) (August 11): 148. ["This company was recently incorporated in Utah for the purpose of operating properties in the Grand Canon mining district. The officers are as follows: J. W. Lee, president; A. R. Teeples, vice president; Edwin W. Lee, treasurer; F. J. Barber, secretary. The directorate includes H. C. Nelson, F. W. Lee, Hyrum Lee and Richard Daniels. All of the incorporators are residents of Tooele county, Utah." (ENTIRE ITEM)]
- 1904 21.5526 Rivers: Their work and cañon-making. *In*: Galt, Alexander S. (ed.), *Cassell's . . . popular science. First edition. Volume I. Section I.* London: Cassell and Co., Ltd., and Boston: E. B. Hall and Co., pp. 93-105. [See pp. 103-105, Plate 3.] [Ellipsis is part of title.] [*Cassell's popular science.*]

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Anonymous (*continued*)

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| 1905 | 21.6471 | Asbestos shingles. <i>Paint, Oil and Drug Review</i> , 89(19) (May 10): 8. ["Small quantities of chrysotile asbestos have been mined at Dalton, Mass., and in the Grand Canyon, Arizona." (ENTIRE NOTE)] |
| 1905 | 21.5719 | The production of asbestos in 1904. <i>Mining Reporter</i> (Denver), 51(19) (May 11): 494-495. ["Small quantities of chrysotile asbestos have been mined at Dalton, Massachusetts and in the Grand Cañon, Arizona." (ENTIRE NOTE)] |
| 1905 | 21.6470 | Production of asbestos in 1904. <i>The Iron and Machinery World</i> , 97(19) [New Series, 4(23)] (May 13): 17. ["Small quantities of chrysotile asbestos have been mined at Dalton, Mass., and in the Grand Canyon, Arizona." (ENTIRE NOTE)] |
| 1905 | 21.6469 | The production of asbestos. <i>The Mining World</i> (Chicago), 22(20) (May 20): 515. ["Small quantities of chrysotile asbestos have been mined at Dalton, Mass., and in the Grand canyon, Arizona. [. . .] On account of the quantity of the asbestos exposed and of its quality, the deposits in the Grand canyon, Arizona, are attractive. The mechanical difficulties to be overcome in transportation are great, but not insuperable." (ENTIRE NOTE) Capitalizations thus.] |
| 1905 | 21.7512 | Coconino County. <i>In</i> : Mining Summary [SECTION]. <i>Mining and Scientific Press</i> , 90(24) (June 17): 396. [Notice of activity of "Hance Asbestos M. Co. of New York City" and access to railroad.] |
| 1905 | 21.6936 | Field work of the United States Geological Survey during 1905. <i>The Mining World</i> (Chicago), 23(2) (July 15): 36-. [See p. 36, under "Arizona": "Mr. R. T. Evans will have charge of a party in the Grand canyon [<i>sic</i>] which will survey the Shinumo quadrangle." (ENTIRE NOTE)] |
| 1905 | 21.5052 | Copper in red beds of Colorado—Plateau and elsewhere [<i>sic</i>]. <i>In</i> : Epitome of Geologic Literature [SECTION]. <i>Mining Reporter</i> (Denver) 52(6) (August 10): 136-137. ("Abstract from S. F. Emmons' Address Before Geological Society of Washington, November 9, 1904.") |
| 1905 | 21.5454 | La production de l'amianté en 1904. <i>Le Caoutchouc et la Gutta-Percha</i> (Paris), 2(9) (September 15): 308-309. [Asbestos production in Grand Canyon noted, p. 309.] [In French.] |
| 1905 | 21.8273 | New uses for asbestos. <i>The Practical Farmer</i> (Philadelphia), 91(12) (September 23): 177. ["The finest asbestos known comes from the Grand Canyon of the Colorado. It has long fibres that can be spun and woven into various fireproof fabrics."] |
| 1905 | 21.7298 | Die Gewinnung von Asbest in der Ver. Staaten von Amerika. <i>In</i> : Neues aus Wissenschaft und Technik [SECTION]. <i>Chemische Zeitschrift</i> (Leipzig), 4(19) (October 1): 452. [Credited to American Manufacturer and Iron World.] [Includes note of asbestos in Grand Canyon.] [In German.] |
| 1905 | 21.7296 | Gewinnung und Verwendung von Asbest in den Vereinigten Staaten von Amerika im Jahre 1904. <i>In</i> : Mitteilungen und Technische Notizen [SECTION]. <i>Baumaterialienkunde / Les Matériaux de Construction</i> (Stuttgart), 21(21) (November 1): 320. [Includes note of high-quality asbestos in Grand Canyon.] [Bilingual serial title, thus.] [In German.] |

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Anonymous (*continued*)

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| 1905 | 21.6937 | [Hance asbestos mine.] <i>In</i> : Mining News from Busy Mining Camps [SECTION]. <i>The Mining World</i> (Chicago), 23(18) (November 4): 506. ["A force of men has been put to work on the Hance asbestos mines in the Grand canyon. Twelve thousand dollars is to be spent this year in development. This work is preliminary to obtaining patents on the claims. The asbestos is of excellent quality and the only drawback to the successful working in the past has been the inaccessibility, but since building the railroad to the Grand canyon, this has been in a measure overcome." (ENTIRE NOTE)] |
| 1905 | 21.5451 | Mineral possibilities of the Pacific coast. <i>Our Paper</i> (Massachusetts Reformatory, Concord Junction), 21(45) (November 11): 718. ["Asbestos is being developed in the Grand Canyon of the Colorado." (ENTIRE NOTE)] |
| 1905 | 21.5095 | Geologic expression in contour maps. <i>In</i> : Geographical Record [SECTION]. <i>American Geographical Society of New York, Bulletin</i> , 37(2): 107. [Abstract of presentation by Nelson Horatio Darton to Association of American Geographers, Philadelphia.] |
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| 1906 | 21.5685 | Kanab [NEWS]. <i>Deseret News</i> , (January 13): 3 [issue pagination]. ["Messrs. W. M. Whipple and A. Hodgert are in from their mining claims near Grand Canyon. They report about two and one-half feet of snow on the Buckskin mountains [Kaibab Plateau]. Some good copper claims have been located by these gentlemen and improvements are being made on same." (ENTIRE ITEM)] |
| 1906 | 21.5686 | An option given. Grand Gulch copper mine secured by Butte and eastern parties. <i>Deseret News</i> , (January 18): 10 [issue pagination]. |
| 1906 | 21.5687 | More evidence. <i>Deseret News</i> , (February 13): 4 [issue pagination]. [A correspondent in Delta, Colorado, cites "a volume by Lieut. Williamson" concerning "a survey on the Pacific coast in the early fifties." Williamson claims evidence that "the Columbia river once ran south through California, and emptied into the Gulf of California" and that prior to the elevation of the Sierra Nevadas "tradewinds from the Pacific swept its vapors far east . . . forming lakes and rivers. [. . .] Probably at the time of this great eruption [of the Sierras] the great canyon of the Colorado River was rent open and made such a wonderful change in the face of nature." The article concludes that such evidence corroborates the "brief historical record" of these events contained in the Book of Mormon.] |
| 1906 | 21.6465 | The use of asbestos as a material of construction. <i>Mining Reporter</i> (Denver) (Denver), 53(14) (April 5): 340. [Notes: "Nearly all of the asbestos mined in the United States is obtained near New Hartford, Connecticut, Sall Mountain, Georgia, Bedford county, Virginia, Dalton, Massachusetts, and in the Grand canon, Arizona. On account of the quantity of asbestos exposed and its quality the latter deposits are unusually attractive." (ENTIRE NOTE)] |
| 1906 | 21.6635 | Map of Bright Angel quadrangle, Arizona. <i>The Mining World</i> (Chicago), 25(2) (July 14): 32-33. [Regarding the U.S. Geological Survey topographic sheet by F. E. Matthes.] |
| 1906 | 21.7037 | Map of the Bright Angel quadrangle, Grand Canyon of the Colorado River, Arizona. <i>Mineral Wealth</i> (Redding, California), 8(9) (July 15): 4-5. [Regarding the U.S. Geological Survey topographic sheet by F. E. Matthes.] |

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Anonymous (*continued*)

- 1906 21.6634 The production of asbestos. *The Mining World* (Chicago), 25(6) (August 11): 162. [National output for 1905. Includes note, "The asbestos mine in the Grand Canyon, Arizona, which has a fine quality of fiber, produced a small quantity of chrysotile." (ENTIRE NOTE)]
- 1906 21.6224 [Grand Canyon asbestos.] *In*: *Metallics* [SECTION]. *Engineering and Mining Journal*, 82(7) (August 18): 308. ["The most successful development of chrysotile, or sereperentine, asbestos in this country is the one at the bottom of the Grand Cañon of the Colorado, operated by the Hance Asbestos Company. Practically all other asbestos mined in this country is of the amphibole variety, which is inferior, for many uses, to chrysotile. The Canadian output, on the other hand, is almost exclusively of the serpentinous variety." (ENTIRE ITEM)]
- 1906 21.6002 Hance Asbestos Company. *In*: *Mining News* [SECTION]. *Mining Reporter* (Denver), 54(13) (September 27): 320. ["Coconino County. Hance Asbestos Company.—It is reported that this company will resume operation at its mines in the Grand cañon about October 1st. A force of about twenty men will be employed." (ENTIRE ITEM)]
- 1906 21.5729 Technology-Harvard geological expedition. *Science*, New Series, 24(615) (October 12): 471-472. [Joint geological expedition through parts of New Mexico, Arizona, and Utah conducted by Douglas Wilson Johnson under the auspices of Massachusetts Institute of Technology and Harvard University.]
- 1906 21.5292 Spedizione geologica nel Nuovo Messico, Utah ed Arizona. *In*: *Notizie ed Appunti* [SECTION]. *Società Geografica Italiana, Bollettino*, Series 4, 7(Part 2) (12) (December) [Anno 40, Volume 43]: 1275-1276. [Brief notice of work by D. Wilson Johnson, H. W. Shimer, and C. H. Decker.] [In Italian.]
- 1906 21.7692 [Wisconsin Natural History Society.] *In*: *Scientific Notes and News* [SECTION]. *Science*, New Series, 24(623) (December 7): 750. [Includes notice of lecture: "December 1.—A. R. Crook, Ph.D., Curator, Illinois State Museum of Natural History, 'The Making of the Grand Canyon of the Colorado.' (Illustrated.)" (ENTIRE NOTE)]
- 1906 21.4404 Topographic surveys of the United States in 1905. *American Geographical Society, Bulletin*, 38(1): 16-24. [Grand Canyon, see pp. 22-23 (although on p. 20 it is noted as "the Grand Cañon, Colorado [*sic*], near the railroad to Bright Angel").]
- 1906 21.4421 Clarence Edward Dutton. *In*: *Biographical record of the Class of Sixty, 1860-1906*. Boston: Fort Hill Press, pp. 95-100. [Yale University.]
- 1906 21.5395 Asbest. *In*: *Ze Světa* [SECTION]. *Živa* (Časopis Přírodnický) (Praze), 16(6): 187-188. [See p. 188, notice that chrysotile asbestos from Grand Canyon is used to weave fireproof fabrics: "Chrysolitový asbest z Grand Canyon (Arizona) se spřádá v tkaniva ohnivzdorná." (ENTIRE NOTE)] [In Czech.]
- 1906 21.6140 The Students Association of Natural Science. Upsala. Geological and Physico-Geographical Section. *University of Upsala, Geological Institution, Bulletin*, 7 (for 1904-1905): 297-301. [See under "Meeting, March 30th, 1905": "Mr. C. Benedicks read a paper on Grand Cañon of Arizona, illustrated by scioptic images and rockspecimens [*sic*]." (ENTIRE NOTE)]

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- 1907 21.5328 [Ferro-tungstate of tellurium near Grand Canyon.] *In*: The Cabinet [SECTION]. *Mining Reporter* (Denver), 55(14) (April 4): 305. ["The discovery of a new tellurium mineral—ferro-tungstate of tellurium—is reported. It was found in the vicinity of the Grand Canyon of Arizona. The particular specimen analyzed carried high silver values and from 25 to 30% tellurium." (ENTIRE ITEM)]
- 1907 21.5602 [Anita Mine.] *In*: Mining News [SECTION]. *Mining Reporter* (Denver), 55(25) (June 20): 571. ["A shipment of four carlots of high grade copper ore, carrying gold and silver values, was recently made from the Anita mine, twenty miles south of the Grand Canyon. E. F. L'Engle is in charge of the operations." (ENTIRE ITEM) See also corresponding note in "Movements of Mining Men" section, p. 569: "E. Fleming L'Engle, New York City, is to have charge of the development work at the Anita mines, Williams, Ariz." (ENTIRE NOTE)]
- 1907 21.5688 Buckskin copper. Preparations to increase ore production facilities now underway. *Deseret News*, (July 4): 6 [issue pagination]. ["The Buckskin Mountain Copper company has closed its operations for a short time, and pending which it is proposed to enlarge the capacity of the ore reduction plant to 150 tons a day. M. W. Ditto and H. W. Overpeck have gone to Chicago to place an order for the necessary machinery. John F. Brown is left in charge of the property." (ENTIRE ITEM)] [Kaibab Plateau.]
- 1907 21.5932 [Ralph Cameron.] *In*: Movements of Mining Men [SECTION]. *Mining Reporter* (Denver), 66(4) (July 25): 83. ["Ralph H. Cameron has been appointed manager of the Anita Copper Company, Williams, Arizona." (ENTIRE ITEM)]
- 1907 21.4377 Researches in the South-West United States. *In*: The Monthly Record [SECTION]. *Geographical Journal*, 30(4) (October): 441-442. [Field work by geologist D. W. Johnson, including descent into Grand Canyon; also note *in passing* (p. 442) of crossing the Colorado River at Lees Ferry.]
- 1907 21.5600 Phoenix, Arizona. *In*: Mining Letters From Correspondents [SECTION]. *Mines and Mining Weekly*, 15(8) (November 22): 12-14. [See p. 12: "The most serious feature of the depression is the closing down of the Humboldt smelter near Prescott. [. . .] The Humboldt smelter is controlled by Thomas Lawson of Boston and the stoppage was by his telegraphic order. [. . .] It has been operating on its own account a number of copper mines near the Grand Canon, which, of course, will be closed down."]
- 1907 21.5449 [Landslides affecting rapids in Colorado River, Grand Canyon.] *In*: History In the Making [SECTION]. *The Epworth Herald* (Chicago and New York), 18(31) (December 28): 803 (concurrently paginated for issue, 15). ["Recent landslides and earthquakes have wrought important changes in the Grand Canyon of the Colorado. At one point some dangerous rapids have been transformed into a broad and plaid channel by the fall of a mountain front into the great gorge. Such swift changes in the canyon's structure have doubtless occurred often enough in the past to account for much of the vast spaces which lie between its far separated rims." (ENTIRE ITEM)]
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- 1908 21.5070 Motion in the earth's crust. *In*: The Open Court of Inquiry [SECTION]. *The Flaming Sword* (Estero, Florida), 22(1) (January) (700): 30. ["The Great Canon of Arizona can hardly be accounted for on the basis of mere erosion." Premise is dramatic expansion and contractions of earth's crust. No further note of Grand Canyon.] [Open Court section by "The Editor", not otherwise identified in issue.]

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- 1908 21.5628 Worn boulder bridges gorge. *In*: Science and Invention [SECTION]. *Technical World Magazine*, 10(5) (January): 522. [Large chockstone in Grand Canyon slot canyon tributary to Shinumo Creek, off of North Bass Trail. (The location is not indicated in this article; information added here.)]
- 1908 21.5853 [Proceedings of the 640th regular meeting, November 14, 1907.] *In*: Proceedings of the Society of Arts [SECTION]. *Technology Quarterly* (Massachusetts Institute of Technology), 21(1) (March): 126. [“The chairman introduced Professor Douglas W. Johnson, of Harvard University, who spoke on the ‘Physical History of the Grand Cañon District.’ Professor Johnson had spent some time in the field, studying the physical history of this great district, and clearly illustrated its peculiar features both by diagrams on the blackboard and by numerous lantern slides. The speaker gave a most interesting talk, which was fully appreciated by all.” (ENTIRE NOTE)]
- 1908 21.4955 Die 80. Versammlung deutscher Naturforscher und Ärzte in Köln. *Gaea—Natur und Leben* (Köln), 44: 705-729. [See pp. 712-713.] [*In German.*]
- 1908 21.5181 *International library of technology : a series of textbooks for persons engaged in the engineering professions and trades or for those who desire information concerning them. Fully illustrated and containing numerous practical examples and their solutions.* [sections] *Blowpiping, Mineralogy, Geology, Prospecting.* Scranton, Pennsylvania: International Textbook Co., SEPARATELY PAGINATED SECTIONS and subsections. [See section 37, “Geology (Part 1); Descriptive Geology and Petrology”, pp. 57-58; and section 38, “Geology (Part 2); Structural Geology”, p. 49.]
- 1908 21.5947 Museum. *In*: Minutes of proceedings of the Geological Society of South Africa. 1907. *Geological Society of South Africa, Proceedings*, 1907: vi-vii. [See p. vii, accession noted, “Nathan, E. Seven rock Specimens from the Grand Cañon, Arizona.” (ENTIRE NOTE) [Proceedings volume “To accompany Vol. X. of the Transactions.”]
- 1908 21.6502 *District of Columbia : concise biographies of its prominent and representative contemporary citizens, and valuable statistical data, 1908-1909.* Washington, D.C.: The Potomac Press, 589 pp. (American Biographical Directories.) [See p. 238, “Howell, Edwin Eugene”, which notes, “He is an expert relief map maker and modeler, and modeled what is probably the first relief map made in this country. In 1875 he modeled a relief map of the Grand Canyon of the Colorado, which was exhibited at Philadelphia in 1876.” (ENTIRE NOTE)]
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- 1909 21.6133 [Lecture.] *In*: The University Record [SECTION]. *University of Chicago Magazine*, 1(6) (April): 263. [“At the Chicago Academy of Sciences on the evening of March 5 Assistant professor Wallace W. Atwood, of the Department of Geology, gave an illustrated lecture entitled ‘Studies in Geology: The Grand Canyon of the Colorado River.’” (ENTIRE ITEM)]
- 1909 21.4905 Asbestos. *Mining Science*, 60(1535) (July 1): 12. [Includes Hance Asbestos Co. of Grandview, Ariz.]
- 1909 21.6926 Fine quality of asbestos. *The Salt Lake Mining Review* (Salt Lake City), 11(10) (August 30): 26. [“Asbestos of the best quality yet found in the United States occurs near the bottom of the Grand Canyon of Arizona. It is cross-fibre chrysolite of exceptional quality. The outcrop is extensive, but as the product must be packed on

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- donkeys about twelve miles down [*sic*] one side of the canyon and 4000 feet up the other side, and thence hauled twenty miles to the railroad, only the hand-cobbed, best grade of the material can be shipped at present." (ENTIRE ITEM) Credited to "Miner, Kingman, Arizona.")
- 1909 21.5824 The asbestos industry. *The Horseless Age* (New York), 24(10) (September 8): 261. [Asbestos noted in Grand Canyon, *in passing*.]
- 1909 21.5629 The asbestos industry. *Heating and Ventilating Magazine*, 6 (October): 34. [Asbestos noted in Grand Canyon, *in passing*.]
- 1909 21.6505 The production of asbestos. *Mining Science* (Denver), 60 (October 28): 390-391. [See p. 390: "The best asbestos yet found in the United States is in a national monument near the bottom of the Grand Cañon of Arizona. It is cross-fibre chrysotile. Locally the fibre is 4 in. long, and is associated with a belt of limestone affected by an intrusion of diabase. The serpentine including chrysotile is derived from pyroxene contained in the limestone and forming a narrow belt wherever influenced by the diabase." (ENTIRE NOTE)]
- 1909 21.5494 The asbestos industry. *Gas Power*, 7(5) (November): 14. [Asbestos noted in Grand Canyon, *in passing*.]
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- 1910 21.6662 [Class note.] *Yale Alumni Weekly* (Yale University, New Haven, Connecticut), 19(24) (March 4): 597. ["'05—Levi F. Noble has been appointed to the U. S. Geological Survey, and assigned to the mapping of part of the Grand Canon of the Arizona [*sic*] near Flagstaff, Ariz.; he left for Flagstaff early in February, making a short visit in passing at Denver, Colo." (ENTIRE NOTE)]
- 1910 21.5368 Carving the Grand Canyon. *Santa Fe Employes' Magazine*, 4(8) (July): 60. [From *Collier's Weekly*. Superficial filler.]
- 1910 21.5448 Age of the earth. *Century Path*, 13(38) (July 24): 11. ["An American professor has recently declared the age of the earth to be 60,000,000 years. He claims to be able to tell this almost exactly by the aid of the cliffs in Arizona and Utah and the Grand Cañon of the Colorado. Let us add to the *earth's* age one 0—just one! [signed] Student of the Secret Doctrine". (ENTIRE ITEM)]
- 1910 21.5289 [Earthquakes.] *In*: Along the Trail [SECTION]. *Santa Fe Employes' Magazine*, 4(11) (October): 79. ["A dispatch from Flagstaff, Ariz., states that a territory fifty miles square and extending from Flagstaff to the Grand Cañon, has been visited by a series of earthquake shocks, as a result of which the Indians have left the country, refusing to return." (ENTIRE ITEM)]
- 1910 21.18 [Summary of a lecture by William Morris Davis entitled, "Die Lehren des Colorado-Cañons".] *Vereins für Erdkunde zu Leipzig, Mitteilungen*, 1909: 1-5. [In German.]
- 1910 21.7107 New maps. *American Geographical Society, Bulletin*, 42(12): 939-944. [See p. 940, notice of "Map of Grand Cañon at mouth of Bright Angel Creek. 1:48,000=0.75 mile to an inch. 2 colors. By N. H. Darton. [Showing distribution of formations, especially in their relation to the topography]". (ENTIRE ITEM) Square brackets are part of quote.]

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| 1911 | 21.6612 | Government geologist gives university course. <i>Michigan Alumnus</i> (University of Michigan), 17(8) (May): 495. [F. E. Matthes presents twelve lectures in topographical mapping; "Grand Canon" noted.] |
| 1911 | 21.6613 | [Note.] <i>In</i> : Scientific Notes and News [SECTION]. <i>Science</i> , New Series, 33 (May 19): 766-767. ["Mr. F. E. Matthes, of the U. S. Geological Survey, is delivering a course of twelve illustrated lectures with accompanying laboratory work before the students of the University of Michigan, the subject of the lectures being, 'Topographic Mapping.' On May 3, by invitation of the Michigan Chapter of Sigma Xi, Mr. Matthes told in a popular lecture 'How the Map of the Grand Canyon was made.' The maps of the Grand Canyon, Yosemite Valley and the new Glacier National Park have all been prepared by Mr. Matthes, who is now engaged upon the map of the new Mt. Ranier [<i>sic</i>] National Park." (ENTIRE NOTE)] |
| 1911 | 21.6614 | Past events. <i>In</i> : Campus Calendar [SECTION]. <i>Michigan Alumnus</i> (University of Michigan), 17 (June): 533-. ["Wednesday, 3 [May] [. . .] F. E. Matthew [<i>sic</i>], of the U. S. Geological Survey, addressed Sigma Xi on 'How the Map of the Grand Canon was Made.'" (ENTIRE NOTE)] [F. E. Matthes.] |
| 1911 | 21.8310 | Facts about asbestos. <i>Railway Master Mechanic</i> (Chicago), 35(9) (September): 429. [Information abstracted from Diller (1911, <i>ITEM NO.</i> 21.867). Includes note of Grand Canyon asbestos.] |
| 1911 | 21.6504 | [Note.] <i>In</i> : Miscellaneous [SECTION]. <i>The Mining Investor</i> (Denver), 64(13) (November 13): 280. ["According to reports attempts are being made to dredge the Grand Canon of the Colorado river to recover gold and platinum." (ENTIRE NOTE)] |
| 1911 | 21.19 | Grand Canyon physiography. <i>American Scenic and Historical Preservation Society, 16th Annual Report, 1911</i> , pp. 68-72. [Anonymously written summary of a talk by Douglas W. Johnson on "The physical history of the Grand Canyon district", presented to the Society on March 23, 1911.]
≡ CROSS-LISTINGS CITED» GCNHA Monograph 8: page 3-50 |
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| 1912 | 21.7335 | The asbestos industry. <i>Commercial America</i> (Philadelphia Commercial Museum), 8(10) (April): 11. ["The finest asbestos yet found in the United States, comparing favorably with the best from any part of the world, is in Grand Canyon of the Colorado in Arizona; it is not, however, easily accessible." (ENTIRE NOTE)] |
| 1912 | 21.5927 | Our asbestos industry. <i>The Granite Cutters' Journal</i> (Quincy, Massachusetts) 36(2) (May): 21. ["The finest asbestos yet found in the United States, comparing favorably with the best from any part of the world, is in Grand Canyon of the Colorado in Arizona; it is not, however, easily accessible." (ENTIRE NOTE)] |
| 1912 | 21.4935 | [Platinum in Grand Canyon.] <i>In</i> : Summary of Events [SECTION]. <i>The Friend</i> (Philadelphia), 85(44) ("Fifth-Day, Fifth Month 2, 1912" [Thursday, 2 May 1912]): 352. ["Platinum deposits, said to be worth at a conservative estimate more than \$30,000,000 have been located in a section of the Grand Canyon in Arizona."] |
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| 1913 | 21.8290 | Platinum in Grand Canyon. <i>The Earth</i> (Atchison, Topeka and Santa Fe Railway, Chicago), 10(1) (January): 5. ["A mill of special design, operating on gravel found a half a mile from the rim of the Grand Canyon of Arizona since last summer, has |
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- recovered concentrates which it is claimed contain platinum. A Phœnix dispatch says this gravel, undoubtedly, runs into millions of dollars. Philadelphia capital is said to have taken over seven of these claims." (ENTIRE ITEM)]
- 1913 21.8059 Uses of asbestos. *The Carpenters Trade Journal* (New York), 2(8) (February): 11. [Notes a new Arizona locality northeast of Globe. "In occurrence, origin, quality and quantity, this deposit is essentially the same as that of the Grand Canyon district, but is much more accessible." Item credited to U.S. Geological Survey.]
- 1913 21.8291 To live in Phœnix. *The Earth* (Atchison, Topeka and Santa Fe Railway, Chicago), 10(3) (March): 4. ["Ralph Cameron, formerly a territorial delegate representing Arizona in Congress, will make his home in Phœnix, where he will build a home. He will continue operating his ore prospects in the Grand Canyon." (ENTIRE ITEM)]
- 1913 21.6931 Asbestos production. *Southwest Contractor and Manufacturer* (Los Angeles), 11(22) (October 4): 10. ["The finest asbestos yet found in the United States, comparing favorably with the best from any part of the world, is in the Grand Canyon of the Colorado in Arizona; it is not, however, easily accessible." (ENTIRE NOTE)]
- 1913 21.5689 Output of asbestos in 1912. *National Glass Budget*, 29(23) (October 11): 11. ["The finest asbestos yet found in the United States, comparing favorably with the best from any part of the world, is in the Grand Canyon of the Colorado in Arizona; it is now, however, easily accessible." (ENTIRE NOTE)]
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- 1914 21.5331 [Platinum in Grand Canyon.] *In*: Current Electrical News [SECTION]. *Electrical Review and Western Electrician*, 64(7) (February 14): 354. ["Grand Canyon, Ariz.—J. Bishop & Company, platinum manufacturers of Malverne [*sic*], Pa., who have taken 10 of the 40 platinum claims of Ralph H. Cameron in the Grand Canyon of the Colorado River near Bright Angel trail, will erect a generating plant on Indian Garden Creek to furnish power for a 100-ton reduction plant to be erected nearby." (ENTIRE ITEM)]
- 1914 21.5330 Production of asbestos in the United States. *Electrical Review and Western Electrician*, 64(24) (June 13): 1178. [Includes note of Grand Canyon deposits.]
- 1914 21.6723 Asbestos the unique mineral. *Metal Worker, Plumber and Steam Fitter* (New York), 82(2) (July 10): 40. [Includes note of Grand Canyon.]
- 1914 21.6993 [Grand Gulch mining district.] *In*: The Mining Summary [SECTION]. *Mining and Scientific Press*, 109 (July 11): 74.
- 1914 21.5599 Late news from the world's mining camps. Editorial and special correspondence. *Mining and Engineering World*, 41(5) (August 1): 212-. [See p. 212 (capitalization thus): "Fredonia. Fredonia is to be the starting point for the expedition under the direction of the U. S. Geological Survey into that little-known section of Arizona north of the Grand canon known as the 'Arizona Strip.' The leaders of the expedition are Dr. C. C. Jacobs and Prof. A. C. McOmie of the State University. They will cross the Colorado river at Lees ferry. They will leave the section through Nevada." [AND] "Kingman. Ore is being hauled to the railroad from the old Ridenour mine in the Grand canon. The lessees have opened up several hundred tons of excellent ore and have about 40 tons at the railroad." (ENTIRE NOTES)]

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| 1914 | 21.6599 | [Ridenour mine.] <i>In</i> : The Mining Summary [SECTION]. <i>Mining and Scientific Press</i> , 109 (October 10): 574. ["Near the Grand Cañon, and 90 miles northeast of Hackberry, is the copper mine of W. B. Ridenour of that place, and which is producing over 50% ore from a narrow vein." (ENTIRE NOTE)] |
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| 1915 | 21.8060 | Uses of asbestos. <i>The American Contractor</i> , 36(1) (January 2):97. [Notes a new Arizona locality northeast of Globe. "In occurrence, origin, quality and quantity, this deposit is essentially the same as that of the Grand Canyon district, but is much more accessible" Item credited to U.S. Geological Survey.] [This is the same item as that in Anonymous (1913, <i>ITEM NO.</i> 21.8059).] |
| 1915 | 21.6462 | A "safety-first" mineral. <i>Commerce Reports</i> (U.S. Department of Commerce, Bureau of Foreign and Domestic Commerce), (144) (June 21): 1312. [Asbestos. Includes note of Grand Canyon.] |
| 1915 | 21.6460 | A "safety-first" mineral. <i>Metal Worker, Plumber and Steam Fitter</i> (New York), 83(26) (June 25): 929. [Asbestos. Includes note of Grand Canyon.] |
| 1915 | 21.6456 | A "safety-first" mineral. <i>National Glass Budget</i> (Pittsburgh, Pennsylvania), 31(7) (June 26): 13. [Asbestos. Includes note of Grand Canyon.] |
| 1915 | 21.6459 | ["Asbestos is a potential life-saver." <i>In</i> : Concentrates [SECTION]. <i>Mining and Scientific Press</i> , (June 26): 998. [Regarding the mineral's use in fabricating fire-resistant materials. Notes, "Some good mineral was discovered in Arizona last year." (ENTIRE NOTE)] |
| 1915 | 21.4934 | A "safety-first" mineral. <i>Steam</i> , 16(1) (July): 7. [Asbestos. Includes note of Grand Canyon.] |
| 1915 | 21.6454 | A safety-first mineral. <i>Commercial America</i> (Philadelphia Commercial Museum), 12(1) (July): 27. [Asbestos. Includes note of Grand Canyon.] |
| 1915 | 21.6463 | A "safety-first" mineral. <i>Steel and Iron</i> (Pittsburgh, Pennsylvania), (July 15): 734. [Asbestos. Includes note of Grand Canyon.] |
| 1915 | 21.6147 | United States the greatest user of asbestos. <i>Domestic Engineering</i> , 72(9) (August 28): 270. ["The most notable feature of the asbestos industry in 1914 was the development of a new field in Arizona, which is furnishing a grade of fiber that compares very favorably with the Canadian. As the mineral occurs in the Grand Canyon, it is frequently designated Grand Canyon asbestos, although the deposit in that remarkable natural wonder is not yet producing asbestos commercially. For electric installation the Arizona asbestos is even better than the Canadian product, for it contains a lower percentage of iron." (ENTIRE NOTE)] |
| 1915 | 21.6461 | A "safety-first" mineral. <i>National Harness Review</i> (Chicago), 71(6) (September): 60. [Asbestos. Includes note of Grand Canyon.] |
| 1915 | 21.6116 | [St. Louis University geological expedition.] <i>In</i> : Scientific Notes and News [SECTION]. <i>Science</i> , New Series, 42(1083) (October 1): 449. [Part of a threefold task assigned to the party of professors was "to investigate a number of structural and stratigraphic details in the Bright Angel Quadrangle of the Grand Canyon of the Colorado". (ENTIRE NOTE)] |

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1916	21.6457	Asbestos as a "safety-first" mineral. <i>The Universal Engineer</i> (Universal Craftsmen Council of Engineers of the World), 22(3) (March): 220. [Includes note of Grand Canyon.]
1916	21.5939	[Anita mine.] <i>In</i> : Personals [SECTION]. <i>Engineering and Mining Journal</i> , 101(12) (March 18): 535. ["J. C. Gilbert, of San Pedro, Calif., has taken charge of the Anita copper mine, near Williams, Ariz., and is making preparations to begin active work." (ENTIRE NOTE)]
1916	21.5926	[Bass asbestos claims.] <i>In</i> : The Mining News [SECTION]. <i>Engineering and Mining Journal</i> , 101(10) (May 16): 835. ["Asbestos claims of W. W. Bass, situated in Grand Cañon, have been bonded to Eastern men." (ENTIRE ITEM)]
1916	21.7754	Growing sales of asbestos from country's mines. <i>Building and Engineering News</i> (San Francisco), 16(21) (May 24): 34. [Grand Canyon noted, <i>in passing</i> .]
1916	21.6995	[Grand Gulch Mining Co.] <i>In</i> : Late News From the World's Mining Camps [SECTION]. <i>Mining and Engineering World</i> , 9(45) (August 26): 390.
1916	21.6721	Record of the rocks in the Grand Canyon. <i>Stone</i> (New York), 37(9) (September): 482.
1916	21.6722	Stone of the Grand Canyon. <i>Stone</i> (Devoted to the Quarrying and Cutting of Stone for Architectural Uses) (New York), 37(10) (October): 526. [General remarks.]
1916	21.5473	Rocks of the Grand Cañon. <i>Travel</i> , 28(1) (November): 53.
1916	21.5193	Rocks made to tell their own story. <i>U.S. Geological Survey, Press Bulletin 286</i> .
1916	21.5194	Rocks made to tell their own story. <i>In</i> : Current Topics [SECTION]. <i>Franklin Institute, Journal</i> (Philadelphia), 182(6) (December): 770. [Abstract of Anonymous (1916, ITEM NO. 21.5193).]

1917	21.6149	Rocks which tell their own history. <i>Compressed Air Magazine</i> , 22(1) (January): 8248. [Refers to Ransome (1916, ITEM NO. 21.2685).]
1917	21.6607	[Notice of lecture.] <i>In</i> : Scientific Notes and News [SECTION]. <i>Science</i> , New Series, 45 (March 23): 289. ["Mr. N. H. Darton, of the U. S. Geological Survey, recently lectured to Lehigh University on 'The Grand Canyon of Arizona, a Great Object Lesson in Geology and Geography.' A large number of new views and other illustrations were shown." (ENTIRE ITEM)]
1917	21.5096	[Notice of lecture.] <i>In</i> : Geographical Record [SECTION]. <i>Geographical Review</i> , 3(4) (April): 328. ["Mr. N. H. Darton of the U. S. Geological Survey gave a lecture on March 9 at Lehigh University on 'The Grand Canyon of Arizona: A Great Object-Lesson in Geology and Geography.' Many new views and other illustrations were shown." (ENTIRE ITEM)]
1917	21.5496	[Grand Canyon Gold Co.] <i>In</i> : The Mining Summary [SECTION]. <i>Mining and Scientific Press</i> , 115(5) (August 4): 178. ["J. J. Ford, representing Pittsburgh financiers, has

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examined the property of the Grand Canyon Gold Co. Plans have been completed for the working of these placer deposits on the Colorado river." (ENTIRE ITEM)]

1918	21.5118	Rocks of the Grand Canyon. <i>School Science and Mathematics</i> , 18(2) (February) (148): 166. [More of a brief essay in general terms, with passing reference to the recent work of L. F. Noble.]
1918	21.6663	[Platinum in Grand Canyon.] <i>In</i> : Editorial [SECTION]. <i>Mining and Scientific Press</i> , 116(24) (June 15): 811-812. [Comment on a suspicious report. See also letter from John M. Boutwell, 117 (September 7): 309 (Boutwell, 1918, <i>ITEM NO.</i> 21.6664).]
1918	21.5611	Phoenix, Ariz.—July 10. <i>In</i> : Editorial Correspondence [SECTION]. <i>Engineering and Mining Journal</i> , 106(3) (July 20): 153. [Copper carbonate on Kaibab Plateau.]
1918	21.7785	North of the big gorge. <i>In</i> : news of the Mines of Arizona [SECTION]. <i>Arizona</i> (Phoenix), 8(5/7) (August): 10. [Kaibab Copper Co. prospects on Kaibab Plateau.]
1918	21.5614	The Mining News [SECTION]. <i>Engineering and Mining Journal</i> , 106(15) (October 12): 683-. [See p. 683 under "Arizona": "Coconino County. Kaibab Smelting Company (Fredonia)—Organized by Cyrus A. Phelps and John J. Kamm, of Los Angeles, for the establishment of a smeltery at a point north of the Grand Canyon."; "Mohave County. Hackberry (Hackberry)—Shaft down 900 ft. and station being cut. To crosscut to vein." (notes in entirety)]
1918	21.6265	List of accessions to the collections during the fiscal year 1916-1917. <i>In</i> : <i>Report on the progress and condition of the United States National Museum for the year ending June 30, 1917</i> . Washington, D.C.: U.S. Government Printing Office, pp. 99-142. [See p. 119: ". . . a collection of vertebrate fossils obtained by Mr. L. F. Noble in the Grand Canyon of Arizona, consisting of amphibian or reptile tracks from the Coconino sandstone and Devonian fish remains from the Temple Butte limestone (60064)"]

1919	21.4912	No platinum in Grand Canyon. <i>Mining and Scientific Press</i> , 118 (February 8): 185.
1919	21.5715	United States Geological Survey announces that reports of platinum in Grand Canyon are not confirmed. <i>The Jewelers' Circular</i> , 78(2) (February 12): 51.
1919	21.5283	Grand Cañon, the world's greatest example of stream erosion. Model of part of the Bright Angel section prepared at the American Museum. <i>In</i> : Notes [SECTION]. <i>Natural History</i> , 19(4/5) (April/May): 498-499. [Illustrated. ". . . as if looking from an aëroplane about 24,000 feet above the famous El Tovar Hotel."]
1919	21.6923	[Ryan.] <i>The Salt Lake Mining Review</i> (Salt Lake City), 21(7) (July 15): 26. ["The Kaibab Copper Company of Ryan, Coconino county, Arizona, is remodelling its old milling plant, constructing a pipe line, building roads and fixing up old buildings, and expected to begin regular mining operations at an early day. The machinery and freight is taken into Ryan by the way of Hurricane, Utah." (ENTIRE ITEM)]

1920	21.8354	Increasing demand for high-grade asbestos. <i>Cement, Mill and Quarry</i> (Chicago), 17(3) (August 5): 34. [Includes note, "The total quantity of asbestos sold in the
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Anonymous (*continued*)

- United States in 1919 was 1002 tons, of which 420 tons came from Arizona, where there are two promising areas, one in the Grand Canyon and the other about 40 miles northwest of Globe. The route to the deposits in the Grand Canyon has recently been changed, and a small output was made in 1919. Part of the output was sold to customers in America, and the remainder was sent to Japan. Nearly all of the asbestos mined in Arizona, however, comes from the region northwest of Globe” (ENTIRE NOTE)]
- 1920 21.5625 Asbestos mining in the Globe district. *In*: Review of Mining [SECTION]. *Mining and Scientific Press*, 121(9) (August 28): 313-314. [See p. 313, note of Grand Canyon asbestos, *in passing*.]
- 1920 21.6815 The Grand Canyon mystery. *Engineering and Mining Journal*, 110(9) (August 28): 391. [Editorial regarding the Cameron claims. Also refers to supposed platinum deposits.]
- 1920 21.6633 The National Academy of Sciences. *Science*, New Series, 52 (November 26): 519-520. [Program of autumn meeting. See p. 520: “Lecture, complimentary to the citizens of Princeton. ‘Lessons of the Grand Canyon,’ by Professor W. M. Davis. Room 301, Palmer Laboratory. Following this a smoker was held at the Nassau Club.” (ENTIRE NOTE) Princeton University.]
- 1920 21.5624 Grand Canyon. *In*: The Mining Summary [SECTION]. *Mining and Scientific Press*, 121(23) (December 4): 819. “The Northern Arizona Lead & Zinc Co. is working a small force of men at its mine near Catarack [*sic*] canyon. A considerable amount of vanadium ore, as desclozite and vanadinite, was developed in the mine a few years ago.” (ENTIRE ITEM)]
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- 1921 21.5204 How the Grand Canyon of the Colorado was made. *Illustrated World*, 34(6) (February): 997.
- 1921 21.5874 Radium in the Grand Canyon. *Engineering and Mining Journal*, 111(8) (February 19): 335. [Comment regarding an item that appeared in the *New York Tribune* (date not given), that Mme. Marie Curie’s forthcoming visit would take her “to Pittsburgh, where radium is extracted from ore, and to the Grand Canyon, where the ore is found” [*sic*]. Comments on the “myth of rare minerals in the Grand Canyon” having been “pretty well exploded by this time”, and the likelihood that the Grand Canyon was mistakenly confused to be in the state of Colorado.] [Parenthetically, the brief item comments that “the one and only really Grand Canyon” is along the Colorado River.]
- 1921 21.6004 Must humanity perish of thirst? The possible desiccation of the earth through the depredations of underground watercourses. *Scientific American Monthly*, 4(4) (October): 305-307. [See p. 305: “Many explorers, particularly Flamand, L. Gentil, Henri Hubert, Capt. Augiéras, etc., etc., have held the opinion that the dried up *oueds* or ravines of the Sahara carried great volumes of water in the Quaternary era. [¶] De Lapparent thought that during that same era the bottom of the Grand Cañon in Colorado [*sic*] was filled with a much more powerful current than that of our time.” (ENTIRE NOTE) The article refers specifically to a book then recently published by E. A. Martel, *Nouveau Traité des Eaux Souterraines* (Paris, 1921). The abstract presented in the current article is credited to *La Nature* (Paris), May 7, 1921.]

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Anonymous (continued)

1921	21.5476	Must the world die of thirst? <i>The Literary Digest</i> , 71(6) (November 5): 21. ["Many explorers have held the opinion that the dried-up ravines of the Sahara carried great volumes of water in the Quaternary era. De Lapparent thought that during that same era the bottom of the Grand Cañon was filled with a much more powerful current than that of our time." (ENTIRE NOTE)]
1922	21.6458	Dry holes show how Utah formations run. <i>National Petroleum News</i> , 14(6) (February 8): 67-68. [Includes diagram (p. 67), "Correlation of the Log of the Circle Cliffs Well with the Grand Canyon Section by Wilson B. Emery, The Ohio Oil Co., Dec. 24, 1921".]
1922	21.5755	<i>Enciclopedia universal ilustrada Europeo-Americana : versiones de la mayoría de las voces en francés, italiano, inglés, alemán, portugués, catalán, esperanto. Tomo XLVI</i> [Polo-Predztechka]. Barcelona: José Espasa, 1406 pp. [See "Precámbrico", pp. 1322-1325; specifically, p. 1323: "El Gran Cañón del Colorado, en Arizona, es la localidad clásica para el estudio de estos niveles y en la que Walcott ha encontrado los elementos organizados á que antes hemos hecho referencia." (ENTIRE NOTE) With bibliography, pp. 1324-1325.] [In Spanish.]
1924	21.8327	<i>Enciclopedia universal ilustrada Europeo-Americana : versiones de la mayoría de las voces en francés, italiano, inglés, alemán, portugués, catalán, esperanto. Tomo XXII</i> [España-Ezzo]. Barcelona: Hijos de J. Espasa, 1588 pp. [Under "Estados Unidos", see section "III. Geología, Paleontología y Mineralogía" (pp. 547-551) and section "IV.—Hidrografía" (pp. 551-553). Grand Canyon, see in pp. 548-551.] [In Spanish.]
1923	21.6020	Shooting the Colorado. <i>Time</i> , (August 20):. [Birdseye expedition.]
1924	21.20	Surveying depths of the Grand Canyon; roughest three hundred miles of the abyss are traversed by government party to obtain mapping data. <i>Popular Mechanics</i> , 41(4) (April): 562-564. [Birdseye expedition.] ≡ CROSS-LISTINGS CITED» GCNHA Monograph 2: page 44 CITED» GCNHA Monograph 8: page 3-13
1925	21.8304	Surveys in Colorado River basin. <i>Water Works (Engineering and Contracting)</i> (Chicago), 63(1) (January 14): 91. [Brief notice of mapping survey on the Colorado River through Grand Canyon; <i>i.e.</i> , Birdseye Expedition.]
1925	21.8348	Significant field work of Geological Survey. <i>Compressed Air Magazine</i> , 30(5) (May): 1247. [Includes remarks on the Birdseye expedition through Grand Canyon, although not mentioned by name.]
1926	21.21	Fossil fish. <i>Grand Canyon Nature Notes</i> , 1(7) (November 11): 4. [Ribs and backbone of a fish from the Kaibab limestone near Bright Angel Ranger Station, North Rim.] ≡ CROSS-LISTINGS CITED» GCNHA Monograph 2: page 44 CITED» GCNHA Monograph 8: page 3-13

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Anonymous (*continued*)

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| 1926 | 21.22 | Prehistoric footprints from the Grand Canyon. <i>Scientific American</i> , 134: 330.
≡ CROSS-LISTINGS CITED» GCNHA Monograph 2: page 44 CITED» GCNHA Monograph 8: page 3-13 |
| 1926 | 21.4875 | Caging a fierce canyon stream. <i>Popular Science Monthly</i> , 108(3) (March): 17. [U.S. Geological Survey; Birdseye expedition to survey dam sites, but no mention of Birdseye in article.] |
| 1926 | 21.4874 | Taming the Grand Canyon’s torrent; the Colorado, navigated but three times, to be harnessed for power, irrigation and flood control. <i>Popular Mechanics Magazine</i> , 45(4) (April): 573-575. [U.S. Geological Survey; regarding Birdseye expedition to survey dam sites, but no mention of Birdseye in article.] |
| 1926 | 21.7377 | Prehistoric footprints from the Grand Canyon. <i>Science</i> , New Series, 63(1638) (May 21): xvi. |
| 1926 | 21.7378 | Prehistoric footprints from the Grand Canyon. <i>Canadian Medical Association Journal</i> , 16(7) (July): 857. [Credited to <i>Science</i> , May 21, 1926 (Anonymous, 1926, <i>ITEM NO.</i> 21.7377).] |
| 1926 | 21.8623 | Nyolclábu ósállat. <i>A Munka</i> (Salgótarján, Hungary), 4(28) (July 10): 4. [Reporting (<i>in translation here</i>) on the footprints of an “eight-legged primitive animal” described by Charles W. Gilmore from the Grand Canyon. Also notes a “sixteen-toed animal”.] |
| 1926 | 21.8303 | Fossilized footprints millions of years old. <i>The Monthly Evening Sky Map</i> (Brooklyn, New York), 20(326) (August): [4]-[5]. [Reports Charles Gilmore’s discoveries at Grand Canyon.] |
| 1926 | 21.5297 | Fossil footprints ages old found in Grand Canyon. <i>Popular Mechanics Magazine</i> , 46(3) (September): 433. |
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| 1927 | 21.5124 | Footprints millenniums old. <i>Popular Science Monthly</i> , 111(4) (October): 36. |
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| 1928 | 21.29 | Lessons from a graveyard. <i>Grand Canyon Nature Notes</i> , 3(5) (October 31): 1.
≡ CROSS-LISTINGS CITED» GCNHA Monograph 2: page 44 CITED» GCNHA Monograph 8: page 3-13 |
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| 1929 | 21.7204 | Scientific work. <i>Grand Canyon Nature Notes</i> , 3(10) (June 30): 1-2. [Includes note of David White studying fossil flora and Precambrian sedimentary strata.]
≡ CROSS-LISTINGS CITED» GCNHA Monograph 2: page 101 CITED» GCNHA Monograph 8: page 7-9 |
| 1929 | 21.7206 | Facts—not fancies. <i>Grand Canyon Nature Notes</i> , 3(11) (July 31): 6. [Includes note: “Some very interesting material has recently been collected from the Hacatai [<i>sic</i>] Shale (Algonquin Age) which contains rather definite traces of organic matter.” (ENTIRE NOTE)] [Hakatai Shale.] |
| 1929 | 21.30 | Hither and yon. <i>Grand Canyon Nature Notes</i> , 4(2) (October 31): 13-14. [Includes brief note of fossil footprints in the Coconino Sandstone in Bass Canyon (p. 13).]
≡ CROSS-LISTINGS CITED» GCNHA Monograph 8: page 3-13 |

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Anonymous (*continued*)

1930	21.31	Disclosures of ancient life in the Grand Canyon. <i>Carnegie Institution of Washington, News Service Bulletin</i> , 2: 63-70. ≡ CROSS-LISTINGS CITED» GCNHA Monograph 2: page 44 CITED» GCNHA Monograph 8: page 3-13
1930	21.32	Grand Canyon expedition. <i>Discovery</i> , 11: 292. ≡ CROSS-LISTINGS CITED» GCNHA Monograph 8: page 3-13
1930	21.33	Scientific expedition to the Nankoweap. <i>Grand Canyon Nature Notes</i> , 4(7) (May 31): 41. ≡ CROSS-LISTINGS CITED» GCNHA Monograph 2: page 44 CITED» GCNHA Monograph 8: page 3-13
1930	21.34	Briefs. <i>Grand Canyon Nature Notes</i> , 4(6) (April 30): 37. [Brief note of fossils in Bright Angel Shale along Tonto Trail.] ≡ CROSS-LISTINGS CITED» GCNHA Monograph 8: page 3-13
1930	21.35	Odds and ends. <i>Grand Canyon Nature Notes</i> , 4(8) (June 30): 56. [Trilobite fossils in Muav Limestone, which “probably represent new species”.] ≡ CROSS-LISTINGS CITED» GCNHA Monograph 2: page 44 CITED» GCNHA Monograph 8: page 3-13
1930	21.7209	Briefs. <i>Grand Canyon Nature Notes</i> , 5(1) (November 30): 11. [Range extension of Coconino Sandstone trackway. Edwin D. McKee sighted “large footprints” west of Seligman, Arizona, “65 miles beyond the nearest track locality in the Grand Canyon.”]

1931	21.7210	[Edwin D. McKee absence.] <i>Grand Canyon Nature Notes</i> , 5(3) (January): contents page. [McKee “has resigned effective December 31, 1930, in order to devote a few months to advanced studies under [geologist] Dr. A. Stoyanow at the University of Arizona.”]
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1933	21.7019	[Edwin D. McKee absence.] <i>In: Miscellany [SECTION]. Grand Canyon Nature Notes</i> , 8(7) (October): 205. [McKee will be at the University of California at Berkeley “where he will spend several months taking advanced courses . . . and working on the problem of the Kaibab limestone.”]
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1934	21.8397	U.S. National Academy of Sciences awards. <i>Nature</i> , (May 26): 788. [Includes: “The first award of the Charles Doolittle Walcott Medal and honorarium of 1,350 dollars of the Academy has been made to Dr. David White, of the U.S. Geological Survey, in recognition of his work on the pre-Cambrian algæ of the Grand Canyon of Arizona, which are among the very oldest of plant fossils.” (ENTIRE NOTE)]
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1936	21.37	Find well preserved sloths in cave resembling stable. <i>Science News Letter</i> , 30(804) (September 5): 157. [Rampart Cave.] ≡ CROSS-LISTINGS CITED» GCNHA Monograph 2: page 44 CITED» GCNHA Monograph 8: page 3-13
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1936	21.6639	Ground sloth cave. <i>In</i> : The Supplement [SECTION]. <i>Southwestern Monuments Monthly Report</i> (U.S. National Park Service), (December): 437. [Rampart Cave.] [One paragraph quoted with credit, "Extracted from Museum News, December 1, 1936."; with the interesting note added: "Plans for showing the cave to the public have not been completed but it is hoped that an exhibit in situ can be made. Tentative plans include running a trench through the cave and lining the walls of the trench with glass so that bones or any possible human artifacts may be seen."]
1937	21.7965	Corvallis and Newport trip—May 15-16. <i>The Geological News Letter</i> (Geological Society of the Oregon Country, Portland, Oregon), 3(9) (May 10): 101. [Announcement. Includes notice of post-trip dinner lecture by "Professor Anderson of the Eastern Oregon Normal School" on "Vertebrate Fossils of the Grand Canyon".] [Speaker not otherwise identified, but identified here as Howard T. Anderson.]
1937	21.5138	Carnegie expedition tracks prehistoric giant sloth to its lair. <i>Life</i> , 3(12) (September 20): 48-50. [Rampart Cave.] [See also Charles Amsden, "Sloth Hunting", letter to editor, 3(15) (October 11): 128 (<i>ITEM NO.</i> 21.5139).]
1937	<i>21.7226</i>	Further study of the problem of creation. <i>The Creationist</i> (Exeter, California), 1(3) (November): 1-. [See "The Time of Mountain Uplift", pp. 10-11. Possibly confusing Colorado River of Texas with the Colorado River of the West. Author may be the editor, D. J. Whitney, also Secretary of the Religion and Science Association.]
1937	21.4852	Most ancient animal life. <i>Science News Letter</i> , (December 18): 391. [Precambrian jellyfish from Grand Canyon (later named <i>Brooksella canyonensis</i>).]
1937	21.38	Geological expedition to Lake Mead of the Carnegie Institution. <i>Science</i> , New Series, 86: 581-582. [Grand Canyon.] ≡ <i>CROSS-LISTINGS</i> <i>CITED</i> » GCNHA Monograph 2: page 44 <i>CITED</i> » GCNHA Monograph 8: page 3-13]
1941	21.4381	[Incision of Colorado River in Grand Canyon.] <i>In</i> : Oddities [SECTION]. <i>Region III Quarterly</i> (U.S. National Park Service), 3(4) (October):.
1942	21.7757	[Lecture notice.] <i>In</i> : Junior Academy Meetings [SECTION]. <i>Illinois State Academy of Science, Transactions</i> , 34(3) (March): 257. ["Illustrated talk, 'Geologic history of the Grand Canyon,' by Kenneth Gutschick, J. Sterling Morton H.S. [High School], Cicero. [¶] Kenneth has a first hand knowledge of the Grand Canyon. He spends his summers there with his brother who is an instructor in Geology at University of Illinois." (ENTIRE NOTE)]
1942	21.4512	Greatest earth mover. <i>The Ore.-Bin</i> (Oregon Department of Geology and Mineral Industries), 4(5) (May): 43. [Brief quote from a U.S. Geological Survey release, "Suspended Matter in the Colorado River, 1925-1941", with commentary paragraphs.]
1943	21.4913	Metals in Grand Canyon. <i>In</i> : News of Priorities and Materials [SECTION]. <i>The Billboard</i> , 55(11) (March 13): 63. [Metal resources in Grand Canyon; not specified except for "lead, zinc, and other metals" and "traces of platinum".]

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1945	21.7435	New mineral. <i>Rockhound Record</i> (Mineralogical Society of Arizona), 4(4) (January): 2. [Notice of fused wood-ash stones described from North Rim of Grand Canyon by Milton (1944, <i>ITEM NO.</i> 21.7434). The new mineral, Fairchildite, was formally published by Milton and Axelrod (1947, <i>ITEM NO.</i> 21.2378).]
1947	21.39	Flagstaff, Arizona. <i>In: Mines and Mining</i> [SECTION]. <i>Desert Magazine</i> , 11(2) (December): 26. [Oil prospect in Supai Group near Gray Mountain.]
1948	21.6274	Flagstaff, Arizona. <i>In: Mines and Mining</i> [SECTION]. <i>Desert Magazine</i> , 11(5) (March): 26. [Oil prospect being drilled near Gray Mountain.]
1948	21.7436	Uranium. <i>Rockhound Record</i> (Mineralogical Society of Arizona), 8(1) (October): 2. [Includes note, "The Black Canyon area in north-central Coconino county, south of Pipe Springs [<i>sic</i>] National Monument [Pipe Spring National Monument] has been subjected to considerable painstaking investigation, first by the Department of Mineral Resources of Arizona and later by geologists of the Atomic Energy Commission." (ENTIRE NOTE)] [<i>NOTE</i> : "Black Canyon" not recognized in this vicinity; an error?]
1951	21.6739	Ground water resources and their conservation. Ground water provinces of the United States (continued); provinces P, Q, and R; P—Southern Rocky Mountain Province; Q—Montana-Arizona Plateau Province; R—Northern Rocky Mountain Province. <i>The Johnson National Drillers Journal</i> , 23(5) (September/October): 1-5.
1954	21.6287	Havasu Creek flow changed. <i>In: Here and There on the Desert</i> [SECTION]. <i>Desert Magazine</i> , 17(10) (October): 29. [Flood alters appearance of Havasu Falls. Item credited to <i>Yuma Sun</i> .]
1954	21.6288	English professor says North Pole once was located in Arizona. <i>Desert Magazine</i> , 17(11) (November): 22. [K. M., Creek of Cambridge, England, reports that studies of Precambrian rocks of Grand Canyon indicate geomagnetic pole once was in what is now Arizona.]
1955	21.6289	Coconino County, Arizona. <i>In: Mines and Mining</i> [SECTION]. <i>Desert Magazine</i> , 18(1) (January): 31. ["Northern Arizona's uranium boom is apparently centering in Coconino County. Since July 1 a total of 3248 claims have been filed with the Coconino County Recorder. Most of the claims are located in the Marble Canyon and Vermillion [<i>sic</i>] Cliffs areas near Highway 89, not far from the northern border of the county and state.— <i>Coconino Sun</i> ". (ENTIRE ITEM)] [Vermillion Cliffs.]
1955	21.6422	March meeting. <i>Rockhound Record</i> (Mineralogical Society of Arizona), 14(7) (April): 1-2. [Includes report on the presentation on Grand Canyon geology that had been given by Charles H. Preston.]
1956	21.6333	Uranium discovery in Grand Canyon reported. <i>In: Here and There on the Desert</i> [SECTION]. <i>Desert Magazine</i> , 19(2) (February): 38. [Golden Crown Mining Co., subsidiary of Western Gold and Uranium, Inc., is "developing a uranium deposit that

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appears to be one of the largest yet found in the United States." Orphan Mine. Item credited to *Washington County News*.]

1956	21.5877	[Orphan Mine.] <i>In</i> : Keeping Up With the Atom. <i>Popular Mechanics Magazine</i> , 105(4) (April): 133. ["Countless sightseers have stood close to a large body of uranium-rich ore without knowing it. One of the largest pitchblende discoveries to be made in this country is located 1300 feet down the slope from the south rim of the Grand Canyon. It is within the only privately owned land in Grand Canyon National Park. The deposit is estimated to contain between 100,000 and 300,000 tons of rich ore." (ENTIRE NOTE)]
1956	21.8610	Flying dangerously. <i>Draugas</i> (Chicago), 11(82) (April 7): 5. ["Flying dangerously low at fifty feet above the ground, airplanes search for uranium. This was effectively illustrated in a survey completed for Mia Nina Mining Corporation in the Marble Canyon and House Rock Area, Conconino [<i>sic</i>] County, Arizona. The Airborn [<i>sic</i>] Instrument Company obtained counts equal [<i>sic</i>] to 2,000 to 2,500 per minute. Such readings were considered very good and indicated that Mia Nina had an important potential throughout the House Rock[,] Cliff Dwellers and Marble Canyon Areas. [¶]The formations exposed in this area are the Moenkopi, Chinle and Shinarump. The Chinle and Chinarump [<i>sic</i>] formations are important producers of uranium ores on the Colorado Plateau. (Skelb.)" (ENTIRE ITEM)] [In English; most of this serial is in Lithuanian.]

1957	21.6012	Treasure of Granite Gorge. <i>Time</i> , 70(13) (September 23): 89. [Bat Cave.]
1957	21.40	Tramway and vacuum cleaner solve unusual mining problems. <i>Engineering and Mining Journal</i> , 158(6): 112.

1959	21.6368	Grand Canyon, Arizona. <i>In</i> : Mines and Mining [SECTION]. <i>Desert Magazine</i> , 22(7) (July): 29. [Orphan Mine to ship uranium ore. Notes, erroneously, that the "uranium ore was deposited in a brecciated pipe, created by an ancient volcanic explosion."]
1959	21.41	Activities. <i>Cave Notes</i> , 1(6): 27. [Report on Grand Canyon cave studies begun in 1953 and continued through 1959, with a list of publications.] ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 2: page 63 [under Lange]] [CITED» GCNHA Monograph 8: page 3-13]
1959	21.42	How Western Gold mines uranium in Grand Canyon. <i>The Mining World</i> (Chicago), 1(1): 32-35. ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 3-13]

1960	21.6378	Oilmen eye North Kaibab. <i>In</i> : Southwest News Briefs [SECTION]. <i>Desert Magazine</i> , 23(10) (October): 7.
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1964	21.6877	Arizona's mile deep Grand Canyon scene of astronaut geology training. <i>Space News Roundup!</i> (U.S. National Aeronautics and Space Administration, Manned Spacecraft Center, Houston, Texas), 3(11) (March 18): 3.
1964	21.43	[Note on Cheyava Falls Cave.] <i>In</i> : Proceedings [SECTION]. <i>Cave Notes</i> , 6(3): 19. ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 3-13]

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1967	21.44	Early Cenozoic volcanism. <i>In</i> : McKee, Edwin D., Wilson, Richard F., Breed, William J., and Breed, Carol S. (eds.), <i>Evolution of the Colorado River in Arizona; an hypothesis developed at the Symposium on Cenozoic Geology of the Colorado Plateau in Arizona, August 1964. Museum of Northern Arizona, Bulletin 44</i> , p. 32. [Item signed as "Various Contributors".]
1968	21.3603	<i>The Grand Canyon of the Colorado . . . a closer study of earth change.</i> St. Louis (Missouri), New York, San Francisco, Dallas (Texas), Toronto, London, Sydney: McGraw-Hill Book Co., Webster Division, 16 pp. (Time, Space, and Matter; Investigating the Physical World, Investigation 7.) [Ellipsis is part of title. Copyright Princeton University. Princeton University, Secondary School Science Project. This publication apparently is a student's workbook; teacher's version not seen.]
1969	21.45	Orphan Mine suspends uranium ore production. <i>Pay Dirt</i> , (April 28): 26. ≡ CROSS-LISTINGS CITED» GCNHA Monograph 8: page 3-13
1970	21.8061	With \$40 and a little FORTRAN—computer-animated movies. <i>Research News</i> (University of Michigan, Office of Research and Administration, Ann Arbor), 21(4/5) (October/November): 11-13. [A "Computek Model 400/20 display terminal with a bi-stable storage tube" was used by Henry Pollack and Michael Levy (Geology Department) to create a film strip illustrating "the general process of the erosion of the Grand Canyon"; a 16-mm camera "photographs static displays one frame at a time".]
1970	21.4222	Большой Каньон [Bol'shoi Kan'on] [Grand Canyon]. <i>In</i> : Прохоров А.М. [Prokhorov, A. M.] (ed.-in-chief), <i>Большая Советская энциклопедия</i> [Bol'shaia Sovetskaia entsiklopediia] [Great Soviet encyclopedia]. Moscow: Sovetskaia Entsiklopediia Publishing House, 3rd ed. [For English translation see in <i>Great Soviet Encyclopedia</i> (Anonymous, 1973, ITEM NO. 21.4221).] [In Russian.]
1973	21.4221	Grand Canyon. <i>In</i> : <i>Great Soviet encyclopedia : a translation of the third edition.</i> New York: Macmillan, Inc., and London: Collier Macmillan Publishers, Vol. 3, p. 681. [Volume is a translation of <i>Bol'shaia Sovetskaia entsiklopediia</i> . For Grand Canyon item in original Russian see Anonymous (1970, ITEM NO. 21.4222).]
1976	21.3699	Grand Canyon geologic map. <i>re</i> : (Grand Canyon Natural History Association), 1(1) (March): 1. [Regarding the <i>Geologic Map of the Grand Canyon National Park</i> , by Huntoon <i>et al.</i> (1976, ITEM NO. 24.93).]
1976	21.3700	Breed goes popular. <i>re</i> : (Grand Canyon Natural History Association), 1(2) (April): 2. [William J. Breed.]
1976	21.46	Drillers started at the bottom and went down. <i>Johnson Drillers Journal</i> (Universal Oil Products Co., Johnson Division, St. Paul, Minnesota), 48(3) (May/June): 7. [Bureau of Indian Affairs, Southern Pueblos Agency, Rangewater Section; well in western Grand Canyon.]

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1976	21.3701	Grand Canyon geologic map. <i>re:</i> (Grand Canyon Natural History Association), 1(3) (August): 2. [Regarding the <i>Geologic Map of the Grand Canyon National Park</i> , by Huntoon <i>et al.</i> (1976, <i>ITEM NO.</i> 24.93).]
1977	21.6237	Fossil fire. <i>National Park Service Newsletter</i> , 12(4) (April): 3. [Rampart Cave fire.]
1978	21.7855	A karbonát-és szulfátkőzetek földrajzi elterjedése az Amerikai Egyesült Államokban. Distribution of karst areas in relation to carbonate and sulphate rocks in the United States. <i>Karszt és Barlang</i> (Magyar Karszt- és Barlangkutató Társulat, Budapest), 1978(1/2): 56-57. ("W. E. Davies nyomán"; "After W. E. Davies".) [Map of the United States; areas delineated and specifically labeled include "Kaibab-fennsík (Észak-Arizona). Helyenként felszabdalt plató vízszintes fekvésű karbonmészkből. Sekély dolinák, kevés kisebb méretű barlang." (ENTIRE NOTE)] [In Hungarian, with bilingual item title.]
1978	21.6238	Grand Canyon National Park. <i>In:</i> Park Briefs [SECTION]. <i>Courier</i> (U.S. National Park Service), 1(4) (March): 8. [Rampart Cave fire extinguished; Paul Martin assesses damage.]
1978	21.47	The trip of a lifetime; how to endow a professorship and have the time of your life. <i>Engineering and Science Monthly</i> (California Institute of Technology Alumni Association), 42(2): 12-15. ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 3-13]
1980	<i>21.5380</i>	Grand Canyon presents problems for long ages. <i>In:</i> Five minutes with the Bible and science. <i>Bible-Science Newsletter</i> , 18 (June) (Supplement: 2).
1981	21.6775	[Photo of Bradford Washburn surveying atop butte in Grand Canyon.] <i>In:</i> Industrie et technique [SECTION]. <i>Schweizer Ingenieur und Architekt / Ingénieurs et Architectes Suisses / Ingegneri e Architetti Svizzeri</i> , 107(14) (July 9): B 76. [Cover also indicates "14/81" and "SIA Numéro 4".] [Publication seen in French.]
1981	<i>21.49</i>	Update on pollen in Grand Canyon. <i>Bible-Science Newsletter</i> , 19(6): 5-6. ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 3-13]
1984	<i>21.5923</i>	Major objections to Creationism and how we answer them. <i>The Ministry</i> (Seventh-day Adventists, Ministerial Association, Washington, D.C.), 57(5): 18-22.
1986	21.7726	Rocks around the clock; the concept of geological time. <i>In:</i> Story of the Earth [FEATURE]. <i>The Courier</i> (United Nations Educational, Scientific and Cultural Organization, Paris), (July): 12-20. [Grand Canyon, pp. 12, 18, 20.]
1986	21.7727	L'horloge géologique. <i>In:</i> Histoire de la Terre [FEATURE]. <i>Le Courier de l'UNESCO</i> (United Nations Educational, Scientific and Cultural Organization, Paris), (July): 12-20. [Grand Canyon, pp. 12, 18, 20.] [In French.]

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Anonymous (*continued*)

1986	21.7728	El tiempo geológico. <i>In</i> : Historia de la Tierra [FEATURE]. <i>El Correo de la UNESCO</i> (United Nations Educational, Scientific and Cultural Organization, Paris), (July): 12-20. [Grand Canyon, pp. 12, 18, 20.] [<i>In Spanish.</i>]
1987	<i>21.5924</i>	Major objections to Creationism and how we answer them. <i>Liberty</i> (Hagerstown, Maryland), 82(6) (November/December): 16-20. [Reprint of item originally published in <i>Ministry</i> (ITEM NO. 21.5923 [Anonymous, 1984]).]
1988	21.6714	8th February, 1988: Lecture by Paul Shilston[,] "Canyons in Utah and Arizona". <i>The Black Country Geological Society Newsletter</i> (United Kingdom), (68) (April): 3. [Brief report.]
1989	<i>21.3809</i>	Fossil pollen in Grand Canyon overturns plant evolution. <i>Creation Ex Nihilo</i> , 12(1): 38-39.
1990	21.6747	Uranium glut shuts down last U.S. producer. <i>High Country News</i> , 22(24) (December 17): 2. [Energy Fuels Corp. Mentions Kanab North mine near Grand Canyon, and Grand Canyon issues.]
1991	21.7006	Quake shakes canyon. <i>Rimmin'</i> (Grand Canyon Pioneers), 6(2) (Spring/Summer): [6]. [Facsimile reproduction of clipping from unidentified newspaper (<i>Williams-Grand Canyon News?</i>), regarding earthquake felt at Grand Canyon August 14, 1990. Accompanied by photo by Betty L. Bartlett, August 1989, showing Grand Canyon Village area as seen from West Rim walk, which pinpoints a rockfall that occurred during an earthquake in March 1989.]
1991	<i>21.4745</i>	Tassel-eared squirrels and the age of the Grand Canyon. <i>In</i> : Spotlight on Science [SECTION]. <i>Think and Believe</i> (Alpha Omega Institute, Grand Junction, Colorado), 8(2) (March/April): [1, 3]. [Creationist perspective.]
1992	<i>21.4743</i>	Mythbuster #5; "uniformitarian geology". <i>CSA News</i> (Creation Science Association for Mid-America), 9(2) (March/April): [2-3].
1992	21.5231	New uranium mine seeks NPDES permit. <i>In</i> : State Reports [SECTION], Arizona [SUBSECTION]. <i>Mine Talk</i> , 2(1/2) (Summer/Fall): 48. [Energy Fuels Nuclear, Inc., proposal to operate Pigeon Mine. National Pollutant Discharge Elimination System.]
1992	21.6844	Bogus boulders dupe Grand Canyon tourists! <i>Weekly World News</i> , (September 22): 18. [Fiberglass "boulders" disguise stream measuring equipment at Havasu Creek.]
1993	<i>21.4794</i>	Radioactive dating woes. <i>Think and Believe</i> (Alpha Omega Institute, Grand Junction, Colorado), 10(1) (January/February): 3. [Creationist perspective.]
1993	21.6393	Monday 14th June. Lecture: "The Grand Canyon" by Dr. Trevor Ford of Leicester University. <i>The Black Country Geological Society, Newsletter</i> (United Kingdom), (99)

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- (June): 1. [Announcement. For report on the lecture, see S. Crowton (1993, *ITEM NO.* 21.6089).]
- 1993 *21.6842* Quote-unquote 2. *Geology Today*, (November/December): 205. [Brief note on John Morris' study, "Isotope and trace element analysis of hypersthene-normative basalts from the Quaternary of Uinkarat Plateau, western Grand Canyon", in which the world is indicated to be 20,000 yr old; *ex* Christopher Reed, *Guardian*, 2 November 1993.]
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- 1994 21.50 New discoveries in Grand Canyon. *Regarding* (Grand Canyon Natural History Association newsletter), (Spring): 10-11.
- 1994 *21.6428* A creationist view of Grand Canyon strata. (Summary of the model presented in *Grand Canyon: Monument to Catastrophe*, 1994, pp. 57-81.) *Think and Believe* (Alpha Omega Institute, Grand Junction, Colorado), 11(4) (July/August): [3].
- 1994 *21.7572* [Note on Sixtymile Formation.] *In*: Notes and Quotes [SECTION]. *Think and Believe* (Alpha Omega Institute, Grand Junction, Colorado), 11(5) (September/October): [2]. [Regarding a presentation by Steven Austin and Kurt Wise; "they suggested that the Sixtymle Formation is the oldest preserved Flood deposit in the Grand Canyon".]
- 1994 21.7205 Scientific work. *In*: Lamb, Susan (ed.), *The best of Grand Canyon Nature Notes*. Grand Canyon, Arizona: Grand Canyon Natural History Association, pp. 6-7. [Reprinted from *Grand Canyon Nature Notes*, June, 1929.]
- 1994 21.51 Observation. *In*: Lamb, Susan (ed.), *The best of Grand Canyon Nature Notes*. Grand Canyon, Arizona: Grand Canyon Natural History Association, p. 29. [Reprinted from *Grand Canyon Nature Notes*, May, 1934; fossil shark's tooth from Kaibab fm. below Desert View, *Deltodus mercurii* Newberry, 1876.]
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- 1995 21.3893 Photos document Grand Canyon changes since historic 1923 expedition. *Geologic Record* (Kansas Geological Survey), 1.1 (Spring).
- 1995 21.6843 GeoTrips; geology of the Grand Canyon—Lee's Ferry to Pierce Ferry. *GSA Today* (Geological Society of America), 5(10): 209. [Comments on Colorado River trip made earlier in the year.] [Pearce Ferry.]
- 1995 21.52 News from the Science Center. *Grand Canyon Field Notes* (Center for Resource Interpretation, Grand Canyon National Park, Technical Paper Series), (4) (October 1): 2. [See "Grand Canyon bottled"—"Grand Canyon Spring Water" from a 3,000-ft well at Valle.]
- 1995 21.53 Bag of tricks. *Grand Canyon Field Notes* (Center for Resource Interpretation, Grand Canyon National Park), (7) (December 11): [2]. [Packrat middens.]
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- 1996 21.54 Colorado Plateau may be rotating around Monticello, Utah. *The Confluence* (Colorado Plateau River Guides), 3(3) (Winter): 25. [Excerpt from an article in the *Salt Lake Tribune*.]
- 1996 *21.4136* Grand Canyon; monument to the world-wide Flood. *Creation*, 18(2) (March): 28.

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1996	21.4567	AWG Grand Canyon geology raft trip—May 23-30, 1997. <i>Gaea</i> (Association for Women Geoscientists), 29(3) (Fall): 12-13. [Announcement.]
1997	21.55	Coconino shakes. <i>Arizona Geology</i> , 27(2) (Summer): 4. [Coconino County earthquakes.]
1997	21.4495	Program: "Grand Canyon Geology: Glimpses from a Raft". <i>San Diego Association of Geologists</i> , (October): [1].
1997	21.4562	Geotrip; from the birth of a continent to Glen Canyon Dam: a Grand Canyon voyage; April 10-18, 1998; 9 days, 8 nights. <i>GSA Today</i> (Geological Society of America), 7(11) (November): 8-9. [Announcement.]
1998	21.4811	Disney World displays Grand Canyon fossils. <i>Park Paleontology</i> (U.S. National Park Service), 4(1) (Winter): 4.
1998	21.3940	Grand Canyon rocks reveal continent's past. <i>Frontiers</i> (U.S. National Science Foundation), (July/August).
1998	21.56	New! Geologic highway map. <i>Arizona Geology</i> , 28(3) (Fall): 1.
1998	21.4648	Fossil vertebrate tracks in National Park Service areas. <i>Park Paleontology</i> (U.S. National Park Service), 4(4) (Fall): 2.
1999	21.3867	GRCA—Grand Canyon National Park. <i>Inside Earth</i> (U.S. National Park Service, Cave and Karst Programs), 2(1) (Spring): 2. ["With support from the Division, noted speleologist and co-author of <i>Cave Minerals of the World</i> , Carol Hill started a study of the minerals of the caves of the Grand Canyon. Ms Hill's work is focused on determining the role of various ore bodies present in the canyon's geologic strata on the speleogenesis of the caves." (ENTIRE ITEM)]
1999	21.6072	Late Pleistocene vertebrate communities of the lower Grand Canyon: Rampart and Muav Caves. <i>Park Paleontology</i> (U.S. National Park Service), 5(4) (Fall): 2. [Item signed "staff writer". Note on research conducted by Mary Carpenter and Jim Mead.]
1999	21.3887	Mapping the Grand Canyon. <i>In: Scientists in action!</i> [Reston, Virginia?]: U.S. Geological Survey.
1999	21.3903	Arizona. <i>U.S. Geological Survey, Fact Sheet 004-99</i> , 4 pp. [See "Geologic Information for National Parks", pp. 1-2.]
2000	21.3659	New geologic map of Arizona. <i>Arizona Geology</i> , 30(3) (Fall): 5.
2000	21.4258	What made Grand Canyon? Geologists have clues about the origin of the Grand Canyon, but no answers. <i>Current Science</i> , 86(8): 12.
2001	<i>21.3856</i>	Introducing . . . <i>Grand Canyon</i> . <i>Design Science Association Newsletter</i> , (February): 1. [Regarding a creationist video on Grand Canyon.] [Ellipsis is part of this item's title.]

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2001	<i>21.3857</i>	Grand Canyon—a closer look; recent creationist research challenges current theories of limestone deposition. <i>Design Science Association Newsletter</i> , (May): 1-2.
2001	<i>21.3896</i>	In search of nautiloids. <i>Acts and Facts</i> (Institute for Creation Research), 30(8) (August): 3-4.
2001	<i>21.3858</i>	Grand Canyon: A Biblical model. <i>Design Science Association Newsletter</i> , (November): 1.
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2002	21.4761	A tectonostratigraphic model of the Colorado Plateau. <i>Northern California Geological Society</i> , [January]: [5]. [Summary of lecture by Mel Erskine.]
2002	<i>21.6098</i>	Evidence for a global flood. <i>Creation Answers</i> (Creation Education Materials, Arlington, Texas), 3(1) (April): 2-5.
2002	21.4649	Did you know? <i>Park Paleontology</i> (U.S. National Park Service), 6(2) (Summer): 8. [Fossil dung of <i>Nothrotheriops shastensis</i> , from Grand Canyon.]
2002	21.3944	Department business and news. <i>Scene</i> (Utah State University, College of Science), 13(1) (October 2002-February 2003): 3.
2002	21.4500	[Overseas field trip to the Grand Canyon—Grand Canyon, Sunset Crater, San Andreas fault, Lowell Observatory.] <i>In</i> : [Announcements section]. <i>地学雑誌: Journal of Geography</i> (Tokyo Geographical Society), 112(4): 642-643. [In Japanese.]
2002	21.3839	American beauty; the majestic Grand Canyon draws thousands of daily visitors; but its formation still baffles scientists; guide students on a geological tour; includes a cross-section of the canyon's climate zones. <i>Science World</i> , 58(14): 14-17.
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2003	<i>21.8432</i>	ICR geologist presents discovery at geologic society meeting. <i>Acts and Facts</i> (Institute for Creation Research), 32(1) (January): 1. [Steven Austin presents finding pertaining to orthocone nautiloid layer in the Redwall Limestone in Marble Canyon.]
2003	21.3866	Dear Eddy. <i>Boatman's Quarterly Review</i> , 16(1) (Spring): 7. [Letter, signed "Anonymous", regarding "scientific vandalism" of boulders at Granite Rapid, drilled and fitted with metal markers.]
2003	<i>21.5263</i>	Footprints in stone. <i>Creation Resources Trust, Fact Sheet 28</i> , 2 pp. (Creation Resources Trust, Yeovil, United Kingdom.)
2003	<i>21.3941</i>	The dating game. <i>Creation Resources Trust, Fact Sheet 49</i> , 2 pp. (Creation Resources Trust, Yeovil, United Kingdom.)
2003	21.4259	Gravity trends identify extensional regimes; delineation and modeling sedimentary basins east of the Grand Canyon was accomplished using Bouguer gravity and residual aeromagnetic anomaly data; Cenozoic surface structures correlate well with the inferred presence of subsurface structures. <i>American Association of Petroleum Geologists, Bulletin</i> , 87(8): 1299-.

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2003	21.4529	Field studies 2003: Trip to Colorado Plateau provides many geologic memories. <i>Geology at SMU</i> (Department of Geological Sciences, Dedman College, Southern Methodist University), (Fall): 4-5.
2004	<i>21.4005</i>	Après le déluge. <i>National Center for Science Education, Reports</i> , 24(1) (January/February): 20-21. [In English.]
2004	<i>21.8085</i>	Two documentaries to be filmed in Grand Canyon. <i>Acts and Facts</i> (Institute for Creation Research), 33(5) (May): 1-2. [Geology-focused, creationist films.]
2004	21.3968	Tracks in time; explorers find 265-million-year-old animal trails. <i>In: Behind the Scenes</i> [SECTION]. <i>National Geographic</i> , (June): [xlii].
2004	21.4565	Talk on July 18th: The geology and natural history of the Grand Canyon (and some other places). <i>Friends of the E. de C. Clarke Earth Science Museum, Newsletter</i> (University of Western Australia), (September): 3-8.
2004	21.4571	Hiking through the Palaeozoic. <i>In: Geotourism</i> [SECTION]. <i>GEO ExPro</i> (London), (September): 44-48.
2005	<i>21.6280</i>	Coconino Sandstone. <i>Creation News Update</i> (Crying Rocks Ministry, Sedona, Arizona), 2(6) (December): 1-2. [Creationist perspective.]
2005	<i>21.7830</i>	¿Ocurrió el Diluvio de Noé? <i>platicAMOS</i> (Asociación Amós 5:24, Monterrey, Nuevo León, México), (December 14): 9-11. [Includes Grand Canyon. Creationist perspective.] [In Spanish.]
2006	21.4169	Travel guide to the past. <i>Sojourns</i> (Peaks, Plateaus and Canyons Association), 1(1) (Winter/Spring): inside back cover. [Nine chronostratigraphic outcrop maps of the Colorado Plateau.]
2006	21.4451	<i>Grand Canyon in Arizona</i> . [No place]: Answers in Genesis, folded brochure. (Wonders of Geology.)
2007	21.4842	Navajo Sandstone—a scenic reservoir. <i>In: Geotourism</i> [SECTION]. <i>GEO ExPro</i> (London), (January): 50-54. [See “The Grand Staircase”, pp. 52-53.]
2007	21.7890	Geology of the Grand Canyon—river trip; 2-9 June 2007 (7 days, 6 nights on the river). <i>GSA Today</i> (Geological Society of America), 17(1) (January): 35. [Notice of trip with scientific leader Wane Ranney.]
2007	21.4201	You thought the Grand Canyon was big? Sometimes it’s dwarfed by the ongoing flap of how it got that way. <i>AAPG Explorer</i> (American Association of Petroleum Geologists), 28(2): 10-.
2007	<i>21.4534</i>	Join Scott and Gish on a creation/evolution tour of the Grand Canyon; make your plans now for the 2008 “Two Models” tour. <i>National Center for Science Education, Reports</i> , 27(3/4/) (May/August): 27.

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- 2007 21.4572 Rafting the Grand Canyon. *In: Geotourism* [SECTION]. *GEO ExPro* (London), (October): 70-80.
- 2007 21.4210 In reference to "The Grand Age of Rocks Part 3: Geologic Dating Techniques" by Allyson Mathis and Carl Bowman in BQR 19:4. *In: Dear Eddy* [LETTERS SECTION]. *Boatman's Quarterly Review*, 20(4) (Winter 2007-2008): 3. [Item signed "Tubby".] [See also response by Bowman and Mathis, 21(2) (Summer 2008): 4-5.]
- 2007 21.7700 El Gran Cañón. *Minerales* (Buenos Aires, Argentina), (50): 404-405. [Predominant illustration depicts Horseshoe Bend (although correctly identified as Glen Canyon).] [In Spanish.]
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- 2008 *21.4840* Science questions evolutionists cannot answer. *Creation News Update* (Crying Rocks Ministry, Sedona, Arizona), 5(2) (Spring) (21): 1-2.
- 2008 21.4578 A Grand Canyon as old as the dinosaurs? *Monthly Look Inside Caltech* (California Institute of Technology), (3) (May): [4].
- 2008 21.7724 AIPG/AHS/3rd IPGC 2008 Symposium, September 20-24, 2008, Flagstaff, Arizona. *The Professional Geologist* (American Institute of Professional Geologists, Arvada, Colorado), (May/June): cover, _____. [Announcements. See under "Field Trips" (p. 7), "Grand Canyon/South Rim" and "Grand Canyon Sightseeing".] [American Institute of Professional Geologists/Arizona Hydrological Society/International Professional Geology Conference.]
- 2008 21.6049 Blind discovery! *Arizona Mineral Resource* (Arizona Department of Mines and Mineral Resources), (48) (June): [1]. [A "hidden" mineralized breccia pipe discovered on the Arizona Strip.]
- 2008 *21.7721* The Geoscience Research Institute celebrates 50 years. *Geoscience Newsletter* (Geoscience Research Institute, Loma Linda, California), (14) (July): 1-8. [See p. 3, regarding a GRI trip on the Colorado River through Grand Canyon. Creationist perspective.]
- 2008 21.4808 Geophysicists rock on with gravity surveys and sound waves. *Babbitt Times Review* (Babbitt Ranches), (August): 4, 7.
- 2008 21.4363 A deeper look at Canyon geology; museum offers interactive exhibits that really rock. *In: Grand Canyon Tusayan guide : Fall 2008*. Williams, Arizona: Williams-Grand Canyon News, p. 31. [Yavapai Observation Station.]
- 2008 21.4805 A primer on historical concepts on the origin and age of the Colorado River and the Grand Canyon. *Arizona Geology*, 38(3) (Fall/Winter)4-5.
- 2008 21.4807 Earthquakes in Arizona? *Arizona Geology*, 38(3) (Fall/Winter)6-7.
- 2008 21.6450 Growing geology program garners industry support. *UA@Work* (University of Alaska, Statewide Corporate Programs, Anchorage), (14) (Winter 2008/2009): 8-9. [See p. 9, photo, "Last year, funds from private donors helped to underwrite a week-long field course for 12 UAA geology students to visit the Grand Canyon." Colorado River trip.]

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| 2009 | 21.4408 | Researchers reject new (older) age of Grand Canyon. <i>Earth</i> (American Geological Institute), 54(1): 24. |
| 2009 | 21.4490 | Grand Canyon; světová učebnice stratigrafie. <i>Tommy Magazín</i> (Prague), 2009(2): 19. [Serial is a commercially produced magazine on food. Title translates as "Grand Canyon; world-textbook stratigraphy".] [In Czech.] |
| 2009 | 21.4494 | 50 years ago from the Mohave County Miner. <i>Mohave Memories</i> (Mohave Museum of History and Arts, Kingman, Arizona), 1 (February): 3. [Passing note of Shasta ground sloth in Rampart Cave.] |
| 2009 | 21.4569 | Excursion 02: Coast to coast through the American karst: Western segment. <i>In: Pre-ICS Excursions and Field Camps. 15th International Congress of Speleology, Kerrville, Texas, U.S.A. : July 19-26, 2009 : second circular</i> , pp. 16, 26. [Announcement; includes Grand Canyon, <i>in passing</i> .] |
| 2009 | 21.4637 | A deeper look at Canyon geology; museum offers interactive exhibits that really rock. <i>In: Grand Canyon Tusayan guide : Summer 2009</i> . Williams, Arizona: Williams-Grand Canyon News, p. 27. |
| 2009 | 21.5232 | Governor Brewer opposes withdrawal of federal lands in northern Arizona from mineral exploration and mining. <i>AGS Newsletter</i> (Arizona Geological Society), (December): [1]. |
| 2009 | <i>21.6757</i> | <i>95 Thesen gegen die Evolution : Wissenschaftliche Kritik am naturalistischen Weltbild</i> . Bielefeld: Christliche Literatur-Verbreitung e.V., 255 [256] pp. (ProGenesis.) [Grand Canyon, see: "41; Abweichungen in der Radiometrie", pp. 118-120; "84; Flutberichte", pp. 218-222.] [Creationist perspective.] [In German.] |
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| 2010 | 21.6025 | What are breccia pipes and how are they mined? <i>Northern Arizona Proposed Withdrawal EIS, Newsletter</i> (U.S. Bureau of Land Management, Arizona Strip District Office), (1) (March): [2-3]. [Environmental Impact Statement.] |
| 2010 | 21.5315 | A deeper look at Canyon geology; museum offers interactive exhibits that really rock. <i>In: Grand Canyon Tusayan guide : Spring 2010</i> . Williams, Arizona: Williams-Grand Canyon News, p. 27. [Yavapai Observation Station.] |
| 2010 | 21.5316 | Trail is a physical addition to park. <i>In: Grand Canyon Tusayan guide : Spring 2010</i> . Williams, Arizona: Williams-Grand Canyon News, pp. 28-29. [Trail of Time, on Rim Trail.] |
| 2010 | 21.6711 | The power of water. <i>LSI Journal</i> (Lutheran Science Institute, Racine, Wisconsin), (April/June): 27. [News note regarding flash flood in Havasu Canyon. Credited to <i>Answers</i> , quoting <i>USA Today</i> .] |
| 2010 | 21.5435 | The Trail of Time. <i>Canyon Views</i> (Grand Canyon Association), 16(4) (Winter): 6-7. |
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| 2011 | 21.6046 | American Energy Fields, Inc. finalizes purchase agreement. <i>Coal Leader</i> (Richlands, Virginia), 45(2/4) (February/April): 6. [Arizona Strip breccia pipe mining claims.] |
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- 2011 21.5450 In-Residence Faculty, Eben Rose, to lead Field Conference in June. *Geoscience Newsletter* (University of Connecticut), 2(1) (Spring): 2. [Notes paper by Rose, "Modification of the nomenclature and a revised deposition model for the Cambrian tonto Group of the Grand Canyon, Arizona", in 16th Field Conference, Cambrian Stage Subdivision Working Group, International Subcommittee on Cambrian Stratigraphy.] [NOTE: Serial title not to be confused with the university's earlier serial, *Geosciences Newsletter*.]
- 2011 21.7004 Death Valley field trip. *From Under the Rock: Geneseo Geology Newsletter* (State University of New York at Geneseo), (Spring): [3]-[5]. [Includes note of stop at Peach Springs Canyon, Arizona, and Black Canyon below Hoover Dam.]
- 2011 21.7392 Die Geburt des Grand Canyon. *In*: Spektrogramm [SECTION]. *Spektrum der Wissenschaft* (Heidelberg), (July): 10. [Credited to "Nature 472, S. 461-465, 2011"; *i.e.*, Levander *et al.* (2011, ITEM NO. 21.5598).] [In German.]
- 2011 21.5597 California rocks hint at older Grand Canyon. *Earth* (American Geological Institute), 56(2): 22.
- 2011 21.6308 *Airborne Ladar Imaging Research Testbed*. Lexington, Massachusetts: Massachusetts Institute of Technology, Lincoln Laboratory, 2 pp. [Fact sheet. Includes Grand Canyon ALIRT imagery.]
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- 2012 21.6086 Presidents of the Historical Society of Charles County. *The Record* (Historical Society of Charles County, La Plata, Maryland), 106(2) (April): 3-6. [See p. 4, Watson M. Perrygo, 1970-1978; note of collecting activities at "Rampart Cave, Arizona, 1942, as assistant to A. Remington Kellogg to excavate skeletal remains of several species of mammals, birds, lizards, and snakes." (ENTIRE NOTE)]
- 2012 21.8282 生命の力：大不整合の形成はカンブリア爆発を引き起こしたのか [seimei no chikara: Dai fu seigō no keisei wa kanburia bakuhatu o hikiokoshita no ka]. Life Force: Did the formation of the Great Unconformity trigger the Cambrian explosion? *Nature* ダイジェスト [Neichā daijesuto] [Nature Digest] (Japan), 2012(6) (May 25): 32. [Notice and cover illustration of Peters and Gaines (2012, ITEM NO. 21.5906).] [In Japanese, with bilingual item title and serial title in mixed Roman and Japanese orthography, thus.]
- 2012 21.6304 Geological sciences major spends summer examining Martian craters for NASA. *Magnetic East* (East Carolina University, Thomas Harriot College of Arts and Sciences), (Fall): 11. [John Gemperline in undergraduate internship at U.S. National Aeronautics and Space Administration's Goddard Spaceflight Center. Included an field trip to Arizona. "The stratigraphic layers in the Grand Canyon were used in comparison to layers found in the Gale Crater on Mars, where Curiosity recently landed." (ENTIRE NOTE)]
- 2012 21.6108 Geologic wonders—The Wave. (Photos by Shaan Hurley.) *Rocky Mountain Federation News* (Rocky Mountain Federation of Mineralogical Societies), 43(8) (October): 11. ("[F]rom Pick-Hammer News, 3/11, via Quarry Quips, 9/12".)
- 2012 21.6057 Geologic history at the Grand Canyon; Grand Canyon National Park, Arizona, U.S., October 25, 2012. *WorldView* (DigitalGlobe), 1(10) (November 8): cover, 1, back cover. [Aerial perspective of Desert View Watchtower area.]

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Anonymous (continued)

2012	21.7506	A grand old canyon. <i>In:</i> News of the Week [SECTION]. <i>Science</i> , 338 (November 30): 1134.
2013	21.6666	Γεωλογικά και άλλα ταξίδια απ' τον καναπέ [Geologika kai alla taxidia ap' ton kanape] [Geological and other travel from the sofa]. <i>Ta Néa της ΕΕΕΕΓΜ [Ta Néa tis ΕΕΕΕΓΜ]</i> [The News of the ΕΕΕΕΓΜ] (Greek Scientific Society of Soil and Geotechnical Engineering, Zografou), (54) (February): 20-21. [Notice of GoogleMaps Street View imagery from Bright Angel Trail and South Kaibab Trail, and Phantom Ranch. Screen shots accompanied by URL hyperlinks.] [Article title and serial are in Greek; brief text and figure legends are in English.] [Ελληνική Επιστημονική Εταιρεία εδάφους και Γεωτεχνικής Μηχανικής, <i>Ta Néa</i> [Ellinikí Epistimonikí Etaireía edáfous kai Geotechnikís Michanikís, <i>Ta Néa</i> .]
2013	21.7833	La termocronometría indica que el Gran Cañón del Colorado fue excavado hace unos 70 millones de años. <i>Boletín Científico y Cultural de la Infoteca</i> (Universidad Autónoma de Coahuila, Sistema de Infotecas Centrales), (359) (February): 47-48. [Illustrated synopsis of the paper by Flowers and Farley (2012, ITEM NO. 21.5956).] [In Spanish.]
2013	21.5979	Instrumentation and facilities highlight: The Arizona LaserChron Center. <i>EAR to the Ground</i> (U.S. National Science Foundation, Division of Earth Sciences), (Spring): 6-8. [Includes analysis of detrital zircon age data from Grand Canyon Paleozoic sandstones.]
2013	21.6423	<i>Field trip GEOEX 2013 : 16. March 2013 to 23. March 2013 : this is a report from the Field Trip in USA with GEOEX 2013.</i> [Trondheim]: Norwegian University of Science and Technology [Norges Teknisk-naturvitenskapelige Universite], [21] pp. [Trip report, dated May 6, 2013. Includes Grand Canyon, Hoover Dam, Salton Sea. Associate professor and group leaders, Anders Shcomacker and Rune Berg-Larsen.]
2013	<i>21.6092</i>	Space Coast Creation Club. <i>In:</i> Get Involved [SECTION]. <i>Calvary Chapel Merritt Island</i> (Merritt Island, Florida), (June 9-15): folded brochure. [Announcement of presentation by April Menendez, "My trip to the Grand Canyon and surrounding areas", regarding geology class trip. Creationist perspective.]
2014	21.6785	Arizona's Grand Canyon a patchwork of the ages. <i>In:</i> News of the Week [SECTION]. <i>Science</i> , 343 (January 31): 470.
2014	<i>21.6330</i>	Ken Ham's debate with Bill Nye 2/4/2014. <i>Creation in the Crossfire</i> (South Bay Creation Science Association, Torrance, California), (February): 1-2.
2014	21.6786	Grand Canyon is a sprightly young 6-million-year-old. <i>In:</i> In Brief [SECTION]. <i>New Scientist</i> , 221(2954) (February 1): 17.
2014	21.7144	グランドキャニオン : コロラド川が生んだ大峡谷とその周辺地域 [Gurandokyanion Kororado-gawa ga unda dai kyōkoku to sono shūhen chiiki] [The Grand Canyon and its surrounding areas where the Colorado River was born]. <i>In:</i> Eye On Nature [SECTION]. <i>Newton ニュートン [Nyūton], Graphic Science Magazine</i> (Tokyo), (May): 60-75. [In Japanese; bilingual serial title, thus.]

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| 2014 | <i>21.6603</i> | Did you know? Noah’s Flood caused the formation of the Grand Canyon. <i>CBN Foundation</i> (Gurgaon, India), (July/September): [2]. [Christian Broadcasting Network Foundation.] [English ed.] |
| 2014 | <i>21.6604</i> | [Did you know? Noah’s Flood caused the formation of the Grand Canyon.] <i>CBN Foundation</i> (Gurgaon, India), (July/September): [2]. [Christian Broadcasting Network Foundation.] [Hindi ed.] [In Hindi.] |
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| 2015 | 21.6692 | Program: A 30-minute video: the C. H. Birdseye USGS surveying expedition down the length of the Grand Canyon, Aug[.] 1-Oct. 19, 1923; and Documenting changes in the landscape and glaciers of Glacier Bay National Park by recreating historical photography; both presented by: Don Becker, Video Producer and Archive Manager, U.S. Geological Survey, Lakewood, CO. <i>Colorado Scientific Society, Newsletter</i> , (March): 1-3. [Presentations at March 19 meeting.] |
| 2015 | 21.7825 | Πόσο χρονών είναι το Grand Canyon [Póso chronón éinai to Grand Canyon?] [How old is the Grand Canyon?]. Ευρωπαϊκό Κεντρο Περιβαλλοντικησ Ερευνασ και Καταρτισησ, Εβδομαδιαιο Ενημερωτικο Φυλλαδιο [Evropaíko Kentro Perivallontikis Erevnas Kai Katartisis, Evdomadiaio Enimerotiko Fylladio] [European Center for Environmental Research and Training, Weekly Newsletter] (Πάντειον Πανεπιστήμιο, Αθήνα [Pánteion Panepistímio, Athína] [Panteion University, Athens]), (89) (June 6-12): 2. [Brief note without specifics, with link to more information online at a website, in English, unrelated to this institution.] [In Greek, with item title in Greek and Roman orthography, thus.] |
| 2015 | 21.6779 | Other things. <i>Smoke Signals</i> (Kaibab Band of Paiute Indians), (August): [unpaginated]. [Photograph of fossil collected in Grand Canyon by Susannah Porter. Notes Tribal Council approval of her request to name the fossil <i>Kaibabia</i> after the Kaibab Band of Paiute Indians. No further details. A <i>nomen nudum</i> here. See Porter and Riedman, 2016, <i>ITEM NO.</i> 21.7114, for formal erection of the genus.]] |
| 2015 | 21.6929 | Spring seminar takes a trip to the Grand Canyon. <i>News from the Department of Geosciences</i> (Idaho State University, College of Science and Engineering): [2015]: [2]. [Trip to Toroweap area.] |
| <hr/> | | |
| 2016 | 21.6870 | February 2, 2016 dinner meeting. <i>Arizona Geological Society Newsletter</i> , (February): 1-3. [Karen Wenrich will speak on “The Ga-Ge-rich Apex Mine, Utah—A Tsumeb, Namibia analogue”. Apex Mine in a solution-collapse breccia pipe, Beaver Dam Mountains. Notes (p. 2), “the Apex orebody is the oxidized remnants of a primary uranium-rich, polymetallic (base metal) orebody, typical of northern Arizona.” With a biographical sketch of Wenrich, pp. 2-3.] |
| 2010 | <i>21.8603</i> | Grand Canyon; gevormd door wind of door water? <i>Weet magazine</i> (Christelijke Tijdschriften, Utrecht), (February): 28-32. [Concerning the creationist-based work of John Whitmore.] [In Dutch.] |
| <hr/> | | |
| 2017 | 21.7739 | 2017 Spring Break GEOL 290 Regional Geology fieldtrip to the Grand Canyon. <i>MSU Geoscience Newsletter</i> (Minot State University, Geoscience Department, Minot, North Dakota), (Spring): 2-3. [Brief report.] |

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Anonymous (continued)

- 2017 21.8128 Susan Kieffer recognized as the 2017 Marcus Milling Legendary Geoscientist. *In: People In the News* [SECTION]. *Elements* (Québec, Québec), (June): 150. [Includes note, *in passing*, of Kieffer's work on Colorado River rapids in Grand Canyon.]
- 2017 *21.8423* Büyük Kanyon'un altında bilimadamları ile takılmacalar. Yeryüzünün 6000 yaşında olduğuna inananlar, "Hristiyanların çok küçük bir azınlığı" diye ekleyip, Büyük Kanyon'u "Nuh Tufanı'nda oluştuğunun en iyi kanıtı" olarak görürler. *Bioreg Bilim* (Biyokromatograf ve Biyoteşhis Araştırma Grubu Popüler Bilim Dergisi, Ankara), 2017(3) (July): 19-20. [Creationist perspective at least in part.] [In Turkish.]
-
- 2018 21.7702 Grand Canyon Geology and Geoscience Public Symposium. *Boatman's Quarterly Review*, 31(4) (Winter 2018-2019): 13. [Announcement. Symposium "in honor of Earth Day 2018 [*sic*], Grand Canyon National Park's Centennial celebration, and the 150th anniversary of John Wesley Powell's 1869 pioneering Colorado River exploration." Scheduled for Shrine of the Ages, Grand Canyon, April 18-20, 2019 (although agenda indicates April 19-20).] [Earth Day 2019 is April 22.]
- 2018 21.8076 [Trail of Time.] *Gneiss Times* (Wickenburg Gem and Mineral Society, Wickenburg, Arizona), 50(2) (February): 6. [Brief notice of Trail of Time at Grand Canyon.]
- 2018 21.8082 Grand Canyon fossils. *Stoney Statements* (Clear Lake Gem and Mineral Society, Houston, Texas), 44(3) (March): 7-9.
- 2018 21.7821 [Rob Carruth retirement notice.] *USGS Retirees Newsletter* (U.S. Geological Survey), (179) (May): 14-15. [Notes, *in passing* (p. 14), his study of "the deformation of sandbars due to fluctuations of flow of the Colorado River in the Grand Canyon".]
- 2018 21.7822 [Eleanor (Ellie) Griffin retirement notice.] *USGS Retirees Newsletter* (U.S. Geological Survey), (179) (May): 17-18. [Notes her work on sediment transport in the Colorado River in Grand Canyon.]
- 2018 21.7823 [Frank Schaffner retirement notice.] *USGS Retirees Newsletter* (U.S. Geological Survey), (179) (May): 26. [Notes briefly, "While in Flagstaff Frank's work resume included water quality specialist, sediment sampling 'go to guy', construction specialist, and Grand Canyon river rat." Includes a photo of Schaffner next to a helicopter in the Grand Canyon.]
- 2018 21.8001 Молния с Марса [Molniya s Marsa] [*Lightning from Mars*]. *Энерговектор* (Корпоративная газета организаций безиес-сектора «Электроэнергетика» ПАО «Лукойл») [*Energovektor* (Korporativnaya gazeta organizatsiy beziyes-sektora «Elektroenergetika» PAO «Lukoil»)] [*Energy Vector* (Corporate newspaper of organizations of the energy-free sector "Power" PJSC "Lukoil")] (ООО Энерговектор, Уфа, Республика Башкортостан, Россия [ООО Energovektor, Ufa, Respublika Bashkortostan] [*Energovektor LLC, Ufa, Republic of Bashkortostan, Russia*]), (August): 3. [Supposes that the Grand Canyon is the result of extraterrestrial electrical charges. Topic is comparable to the so-called Electric Universe Theory.] [ПАО = Публичное акционерное общество (Publichnoye aktsionernoye obshchestvo) (Public Joint Stock Company). ООО = Общество с Ограниченной Ответственностью (obshchestvo s ogranichennoy otvetstvennost'yu) (Limited Liability Company).] [In Russian.]

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Anonymous (continued)

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| 2018 | <i>21.8116</i> | Saksøker Grand Canyon. <i>Forskerforum</i> (Oslo), 50(7) (September): 21. [Regarding suit brought from Andrew Snelling against the U.S. Department of the Interior for having been refused a permit to collect rock samples in Grand Canyon, for Creationism-based research.] [In Norwegian.] |
| 2018 | 21.7741 | 2019 Birdsall-Dreiss Distinguished Lecturer. <i>GSA Today</i> (Geological Society of America), 28(12) (December): 10-11. [Laura J. Crossey. Includes abstracts of lectures that may be scheduled with Crossey, including "Hydrochemistry and Geoscience Education at Grand Canyon and Beyond: Who Knew Groundwater Hydrology Could Be So Complicated?"] |
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| 2019 | 21.7709 | Grand Canyon Geology and Geoscience Public Symposium. <i>In: The Bulletin</i> [NEWSLETTER SECTION]. <i>The Ol' Pioneer</i> (Grand Canyon Historical Society), 30(1) (Winter): 10. [Announcement. Shrine of the Ages, April 19-20.] |
| 2019 | 21.7740 | Tasmania, U.S. Southwest were once neighbors. <i>Earth</i> (American Geosciences Institute), 64(1) (January): 25. [Brief note of the findings by Mulder <i>et al.</i> (2018, ITEM NO. 21.7663) that correlate strata in Grand Canyon and Tasmania.] |
| 2019 | 21.8276 | The NSS Webinar Series: Grand Canyon's Double Bopper Cave reaches 40 miles long, presented by: Beth Cortright. <i>The River City Caver</i> (National Speleological Society, River City Grotto, Jacksonville, Florida), (March): [2]. [Notice includes link to view webinar videos at https://caves.org/webinars/index-8.shtml#Bopper . That web page links to the video, "Grand Canyon's Double Bopper Cave System Reaches 40 Miles (Part 2)" by Beth Cortright, https://caves.org/webinars/Double%20Bopper%202-1.mp4 (1:16:25). (Part 1 is "Salt, Smoke, and Sketchy Slopes: 11 Miles of New Survey in Grand Canyon Caves" by Beth Cortright (58:17), https://caves.org/webinars/Double%20Bopper%201-1.mp4 .] |
| 2019 | 21.8046 | Tiny footprints, big discovery: Reptile tracks oldest ever found in Grand Canyon; UNLV geologist investigating 310 million-year-old fossil trackway from ancient reptilian creature. <i>UNLV College of Sciences</i> (University of Nevada at Las Vegas, College of Sciences), (Spring): 3. [Steve Rowland discovered a sideways-motion reptile trackway in float boulder along Bright Angel Trail.] |
| 2019 | 21.7876 | [Donald "Don" Bills retirement notice.] <i>USGS Retirees Newsletter</i> (U.S. Geological Survey), (184) (August): 9. [Notes hydrological work on the Colorado River in Grand Canyon and regional groundwater flow.] |
| 2019 | 21.8324 | Student Success Grants fund new equipment and unforgettable experiences. <i>Lake Tahoe Community College Donor Investment Report</i> , (Fall): 3. [Includes remarks and photo relating to LTCC four-unit, field-based course in Grand Canyon.] |
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| 2020 | 21.8107 | Mining claims; "Cameron Makes Big Mining Deal", <i>The Coconino Sun</i> , May 24, 1912. <i>From: Almanac</i> [SECTION]. <i>In: Dundas, Zach (ed.), Grand Canyon : "the ages at work"</i> . Austin, Texas: Wildsam Field Guides, p. 51. [Excerpt from newspaper report, regarding Bright Angel Trail claims.] |
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| 2021 | <i>21.8619</i> | Tiny time bombs. [Untitled tract] (Berean Baptist Church, London, Ontario), (January 24). [Article comprises full-panel remarks introduced thusly: "The discovery of tiny |

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Anonymous (*continued*)

pollen grains in rock shows just how inflated the billions of years claimed by evolutionists really are.” Refers to Burdick (1981, [ITEM NO. 21.8618](#).) [Apparently reprinted in various venues over time. Compare Anonymous (2024, [ITEM NO. 21.8620](#).)]

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| 2024 | <i>21.8620</i> | Tiny time bombs. <i>Friday Church News Notes</i> (Way of Life Literature, Fundamental Baptist Information Service, Port Huron, Michigan), 25(13) (March 29): 4. [Credited to “CreationMoments.com, Jan. 26, 2024”. Remarks introduced thusly: “The discovery of tiny pollen grains in rock shows just how inflated the billions of years claimed by evolutionists really are.” Refers to Burdick (1981, ITEM NO. 21.8618 .) [Apparently reprinted in various venues over time. Compare Anonymous (2021, ITEM NO. 21.8619 .)] |
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“Anonymous” [*after Hamblin, W. Kenneth*]; Neal, James T.; AND F., P.

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| 2009 | 21.4639 | Sinkholes and other works of water. <i>Sojourns</i> (Peaks, Plateaus and Canyons Association), 4(2) (Summer/Fall): 16-21. |
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Aalto, K. R.

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| 2007 | 21.4338 | The “grand excursion” of the 5th International Geological Congress (1891): Celebrating geological exploration in the American West [ABSTRACT]. <i>Geological Society of America, Abstracts with Programs</i> , 39(6): 415. |
| 2017 | 21.7712 | Clarence Dutton’s geology. <i>In</i> : Mayer, W., Clary, R. M., Azuela, L. F., Mota, T. S., and Wołkowicz, S. (eds.), <i>History of geoscience : celebrating 50 years of INHIGEO. Geological Society (London), Special Publication 442</i> , pp. 229-238. [International Commission on the History of Geological Sciences.] |
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Aasoumi, H.; Broutin, J.; Gand, G.; AND El Wartiti, M.

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| 2009 | 21.7035 | La paléontologie de l’époque Permien. Paleoflores “mixtes” et traces vertébrés tétrapodes du Permien inférieur du Maroc Central: Paléo-environnement et paléoclimat [ABSTRACT]. <i>From</i> : Présentations Orales: Paléozoïque. <i>In</i> : <i>1er Congrès International sur la Paléontologie des Vertébrés du Nord de l’Afrique : programme et résumé</i> . Marrakech, Morocco: [no imprint], p. 6. [Includes note of Hermit Formation of Grand Canyon.] [<i>In French.</i>] |
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Abbott, Lon D.

- 2005 21.4173 Using travertine deposits to determine the age of Grand Canyon. *Nature Notes* (Grand Canyon National Park), 21(2) (Winter): 6, 8.

Abbott, Lon D., AND Cook, Terri

- 2006 21.4513 Bigfoot arrives in Arizona. *Arizona Geology*, 36(1) (Spring): 1-4. [USArray Transportable Seismic Network, or "Bigfoot".]
- 2007 21.5000 *Geology underfoot in northern Arizona*. Missoula, Montana: Mountain Press Publishing Co., 321 [323] pp.
 ≡ [REVIEWS AND NOTICES](#) [Anonymous, 2007, ITEM NO. 30.507](#); [Quartaroli, 2009, ITEM NO. 30.623](#)

Abbott, Lon D., AND Lundstrom, Craig

- 2007 21.4335 The use of travertine to measure rates of river incision and scarp retreat in the eastern Grand Canyon, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 39(6): 484.

Abbott, Lon D.; Lundstrom, Craig; AND Traub, Chance

- 2013 21.6166 Rates of river incision and scarp retreat in eastern Grand Canyon's Hermit-Boucher area determined using U-series dating of travertine [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 45(7): 481.
- 2015 21.6716 Rates of river incision and scarp retreat in eastern and central Grand Canyon over the past half million years: Evidence for passage of a transient knickzone. *Geosphere*, 11(3) (June): 638-659 + Supplemental Information online (doi:10.1130/GES0978.S1, comprising 8-page text, Excel file (1 p.), and 10 photos). [See also Comment by Crow *et al.* (2015, [ITEM NO. 21.6875](#)), 11(12): 2130-2131; and Reply by Abbott *et al.* (2016, [ITEM NO. 21.7568](#)), 12(3): 1048-1053.]
- 2016 21.7568 Rates of river incision and scarp retreat in eastern and central Grand Canyon over the past half million years: Evidence for passage of a transient knickzone: Reply. *Geosphere*, 12(3): 1048-1053. [Reply to comments by Crow *et al.* (2015, [ITEM NO. 21.6875](#)), regarding the paper by Abbott *et al.* (2015, [ITEM NO. 21.6716](#)).]

Abbott, W. O.

- 1985 21.57 The recognition and mapping of a basal transgressive sand from outcrop, subsurface, and seismic data. *In*: Berg, O. R., and Woolverton, D. G. (eds.), Seismic stratigraphy II: An integrated approach to hydrocarbon exploration. *American Association of Petroleum Geologists, Memoir 39*, pp. 157-167. [Includes Tapeats Sandstone]
 ≡ [CROSS-LISTINGS](#) [|CITED» GCNHA Monograph 8: page 3-99|](#)

Abbott, Ward

- 1998 21.4162 A new view of something grand. *AAPG Explorer* (American Association of Petroleum Geologists), (July):. [Also included in a web-based version, "Revisiting the Grand Canyon—Through the Eyes of Seismic Sequence Stratigraphy", American Association

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- of Petroleum Geologists, Search and Discovery article 40018 (2001), www.searchanddiscovery.com/sandd2.htm.]
- 1998 21.4163 Canyon offers grand seismic view. *AAPG Explorer* (American Association of Petroleum Geologists), (August). [Also included in a web-based version, "Revisiting the Grand Canyon—Through the Eyes of Seismic Sequence Stratigraphy", American Association of Petroleum Geologists, Search and Discovery article 40018 (2001), www.searchanddiscovery.com/sandd2.htm.]

Abduraximovna, Qurbanova Munavvar

- 2012 21.7688 *Shimoliy Amerika materiginig tektonik tuzilishi va rel'efini asosiy hususiyatlari*. [The tectonic structure of North American matrices and their essential features.] Bachelor's thesis, Namangan Davlat Universiteti [Namangan State University] (Namangan, Uzbekistan), 59 pp. [Colorado Plateau, Colorado River, Grand Canyon, see pp. 23-24, 36-37.] [In Uzbek.]

Abel, Othenio

- 1935 21.4243 *Vorzeitliche Lebensspuren*. Jena: Gustav Fischer, 644 pp. [See pp. 262-266.] [In German.]

Ackerman, Katherine V.; Mixon, David M.; Sundquist, Eric T.; Stallard, Robert F.; Schwarz, Gregory E.; AND Stewart, David W.

- 2009 21.7650 RESIS-II: An updated version of the original Reservoir Sedimentation Survey Information System (RESIS) database. *U.S. Geological Survey, Data Series 434*, 22 pp. + Microsoft Access database downloadable at <https://pubs.usgs.gov/ds/ds434/>. [Within the geographical bounds of this bibliography, data stations include Lake Mead and several in the Arizona Strip and southwesternmost Utah.]

Ackervall, Eric

- 2014 21.7155 Laramide-related deformational history of the monoclines in the Colorado plateau. *In: Andersson, Emil, Ackervall, Eric, Enegren, Per, Karlsson, Christian, Lagenbach, Andreas, Larsson, Sofia, Medan, Vladimir, Partalo, Dario, Disa Rikardsdottir, Stål, Tobias, Thorsson, Sebastian, Wennerström, Andreas, and Öhring, Christian, US-Cordillera Excursion 2013*. (Per Enegren and Andreas Wennerström, eds.) Gothenberg, Sweden: University of Gothenberg, Department of Earth Sciences, pp. 85-89. (University of Gothenberg, Department of Earth Sciences, Report, 2014 C106.) (Göteborgs Universitet. Naturvetenskapliga fakulteten.)

Adam, Pierre; Schaeffer, Philippe; AND Brocks, Jochen J.

- 2018 21.7955 Synthesis of 26-methyl cholestane and identification of cryostanes in mid-Neoproterozoic sediments. *Organic Geochemistry*, 115 (January): 246-249. [See section 2.2, "Coinjection of 26-methyl $\alpha\alpha\alpha$ R-cholestane"; experiment conducted with a bitumen extracted from black shale of the Chuar Group, Grand Canyon.]

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Adams, Eric A.

- 2005 21.6413 *Determining ephemeral spring flow timing with laboratory and field techniques: Applications to Grand Canyon, Arizona.* Master's thesis, Northern Arizona University, 80 pp.

Adams, Eric A.; Monroe, Stephen A.; Springer, Abraham E.; Blasch, Kyle W.; AND Bills, Donald J.

- 2006 21.4196 Electrical resistance sensors record spring flow timing, Grand Canyon, Arizona. *Ground Water*, 44(5) (September/October): 630-641. [South Rim between Horseshoe Mesa and Horn Creek.]

Ad-Hoc Interdisciplinary Integration Work Group

- 1995 21.58 *A draft prospectus on integration of biological and physical data below Glen Canyon Dam, Arizona: Suggested approaches for assessing biological opinion issues : [A working document resulting from the August, 10-11, [sic] 1995 Integration Workshop held at the Hart Prairie Preserve, in cooperation with the Glen Canyon Environmental Studies].* [No imprint], 81 pp. [Square brackets (other than "[sic]", which is interjected here) are part of the title.]

Adler, Hans H.

- 1963 21.6040 Concepts of genesis of sandstone-type uranium ore deposits. *Economic Geology*, 58(6) (September/October): 839-851. [See "Breccia-Pipe Deposits", pp. 849-850.]

Affaton, Pascal

- 1990 21.8376 *Le Bassin des Volta (Afrique de l'Ouest): une marge passive, d'âge Protérozoïque Supérieur, tectonisée au panafricain (600 ± 50 Ma).* Paris: Editions de l'ORSTOM [Office de la recherche scientifique et technique outre-mer], Institut Français de Recherche Scientifique pour le Développement en Coopération, Collection Études et Thèses, 2 volumes (pp. 1-310, 311-500). [Doctoral thesis, Université d'Aix-Marseille III.] [See p. 74, brief note of *Chuaris* in Grand Canyon, in context of discussions, *passim*, of *C. circularis* Walcott in the region under study.] [In French.]

Agenbroad, Larry D.

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- 1977 21.317 Age and environment of deposition: Hualapai Limestone Member of the Muddy Creek Formation [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 9: 390-391.
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 2: pages 33, 47](#) | [CITED» GCNHA Monograph 8: page 3-20](#)

Blake, W. P. [Blake, William Phipps]

- 1856 21.318 General report upon the geological collections. *From*: Whipple, A. W., *with* Ives, J. C. [1853-1854], Report of explorations for a railway route, near the thirty-fifth parallel of north latitude, from the Mississippi River to the Pacific Ocean. *In*: *Reports of explorations and surveys, to ascertain the most practicable and economic route for a railroad from the Mississippi River to the Pacific Ocean. Made under the direction of the Secretary of War, in 1853-4 Volume 3*. Washington, D.C.: A. O. P. Nicholson, Printer, 1856. (Volume: *U.S. 32nd Congress, 2nd Session, House Executive Document 91.*) [See Part 4, "Report on the geology of the route" [1856], No. 1.)]
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 8: page 3-20](#)
- 1901 21.6622 Some salient features in the geology of Arizona with evidences of shallow seas in Paleozoic time. *American Geologist*, 27(3) (March): 160-167.
- 1901 21.319 Geology of Arizona. *U.S. 57th Congress, 1st Session, House Document 5, Serial 4293*.
- 1903 21.320 Geology of Arizona. *U.S. 58th Congress, 2nd Session, House Document 5, Serial 4648*.
- 1903 21.4924 Geology of Arizona. *In*: *Report of the Governor of Arizona to the Secretary of the Interior for the year ended June 30, 1903*. Washington, D.C.: U.S. Government Printing Office, pp. 126-135.
- 1904 21.5001 Geology of Arizona. *In*: *Report of the Governor of Arizona to the Secretary of the Interior for the year ended June 30, 1904*. Washington, D.C.: U.S. Government Printing Office, pp. 66-72. [Item not signed but introduced by the governor [Alexander O. Brodie] as "the report of geological conditions as presented by the Territorial geologist" under the section heading, "Geology of Arizona".]

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Blakey, Ronald C. [Blakey, Ron]

- 1978 21.321 Pennsylvanian and Lower Permian paleogeography and paleotectonics of the southern Colorado Plateau [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 10: 96.
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 2: page 47] [CITED» GCNHA Monograph 8: page 3-20]
- 1979 21.6106 Oil impregnated carbonate rocks of the Timpoweap Member, Moenkopi Formation, Hurricane Cliffs area, Utah and Arizona. *Utah Geology*, 6(1) (Spring): 45-54.
- 1979 21.322 Stratigraphy of the Supai Group (Pennsylvanian-Permian), Mogollon Rim, Arizona. *In*: Beus, Stanley S., and Rawson, Richard R. (eds.), Carboniferous stratigraphy in the Grand Canyon country, northern Arizona and southern Nevada. 9th International Congress of Carboniferous Stratigraphy and Geology, Field Trip no. 13. *American Geological Institute, AGI Selected Guidebook Series*, (2): 89-104.
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 3-20]
- 1979 21.323 Lower Permian stratigraphy of the southern Colorado Plateau. *In*: Baars, D. L. (ed.), Permianland. *Four Corners Geological Society, 9th Field Conference, Guidebook*, pp. 179-186.
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 2: page 47] [CITED» GCNHA Monograph 8: page 3-20]
- 1980 21.324 Pennsylvanian and Early Permian paleogeography, southern Colorado Plateau and vicinity [ABSTRACT]. *American Association of Petroleum Geologists, Bulletin*, 64: 677.
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 3-20]
- 1984 21.325 Marine sand-wave complex in the Permian of central Arizona. *Journal of Sedimentary Petrology*, 54: 29-51.
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 3-101]
- 1986 21.326 The Coconino Sandstone: Does it contain cross-stratified marine deposits? *Geological Society of America, Abstracts with Programs*, 18(5): 342.
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 3-20]
- 1988 21.8155 Basin tectonics and erg response. *Sedimentary Geology*, 56(1/4) (April): 127-151. [Major erg deposits of the Permian and Jurassic systems on the Colorado Plateau.]
- 1988 21.327 Superscoops: Their significance as elements of eolian architecture. *Geology*, 16(6): 483-487.
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 3-20]
- 1990 21.328 Stratigraphy and geologic history of Pennsylvanian and Permian rocks, Mogollon Rim region, central Arizona and vicinity. *Geological Society of America, Bulletin*, 102(9): cover, 1189-1217 + "Supplementary Data 9014" [Data Repository item]. [Erratum: Cover illustration description, inside front cover of number, should read, "Photograph provided by R. C. Blakey shows Cathedral Rock at Red Rock Crossing near Sedona; it is an outlier of the southern escarpment of the Colorado Plateau; Permian Schnebly Hill Formation forms spires and slickrock." (from *Geological Society of America, Bulletin*, 102: 1733).]
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 3-101]

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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

- 1990 21.329 Supai Group and Hermit Formation. *In*: Beus, Stanley S., and Morales, Michael (eds.), *Grand Canyon geology*. New York and Oxford: Oxford University Press and Museum of Northern Arizona Press, pp. 147-182.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-101|
- 1995 21.330 Tracks of time. *Cañon Journal*, 1(1): 48-53.
- 2003 21.3821 Supai Group and Hermit Formation. *In*: Beus, Stanley S., and Morales, Michael (eds.), *Grand Canyon geology*. New York and Oxford: Oxford University Press, 2nd ed., pp. 136-162. [References combined for volume, pp. 407-427.]

Blakey, Ronald C., AND Knepp, Rex

- 1989 21.331 Pennsylvanian and Permian geology of Arizona. *In*: Jenney, J. P., and Reynolds, S. J. (eds.), *Geologic evolution of Arizona. Arizona Geological Society, Digest 17*, pp. 313-347.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-101|

Blakey, Ronald C., AND Middleton, Larry T.

- 1998 21.3607 Field guide to Permian rocks of Grand Canyon and Sedona areas, north-central Arizona. *In*: Duebendorfer, Ernest M. (ed.), *Geologic excursions in northern and central Arizona : field trip guidebook for Geological Society of America Rocky Mountain Section meeting, Northern Arizona University, Flagstaff, Arizona, May 1998*. Flagstaff, Arizona: Northern Arizona University, Department of Geology, pp. 97-125.
- 2012 21.5899 Geologic history and paleogeography of Paleozoic and early Mesozoic sedimentary rocks, eastern Grand Canyon, Arizona. *In*: Timmons, J. Michael, and Karlstrom, Karl E. (eds.), *Grand Canyon geology: Two billion years of earth's history. Geological Society of America, Special Paper 489*, pp. 81-92.

Blakey, Ronald C., AND Ranney, Wayne D.

- 2008 21.4365 *Ancient landscapes of the Colorado Plateau*. Grand Canyon, Arizona: Grand Canyon Association, 156 pp.
 ≡ REVIEWS AND NOTICES Baily, 2009, ITEM NO. 30.368; Kirkland, 2008, ITEM NO. 30.610; Longman, 2009, ITEM NO. 30.592; *Northern Arizona's Mountain Living Magazine*, Staff, 2008, ITEM NO. 30.533
- 2018 21.7358 *Ancient landscapes of western North America : a geologic history with paleogeographic maps*. Chum, Switzerland: Springer (Springer Nature), 228 pp.
- 2024 21.8612 *Ancient landscapes of the Colorado Plateau*. Grand Canyon, Arizona: Grand Canyon Conservancy, 2nd ed., 202 pp. [NOTE: The rear gatefold cover ("About the Authors") provides brief biographical sketches for Blakey (first) and Ranney, but in the photo there included (without identifications) Blakey is on the right.]

Blakey, Ronald C.; Peterson, Fred; AND Kocurek, Gary

- 1988 21.7133 Synthesis of late Paleozoic and Mesozoic eolian deposits of the western interior of the United States. *In*: Kocurek, Gary (ed.), *Late Paleozoic and Mesozoic eolian deposits of the western interior of the United States. Sedimentary Geology*, 56(1): 3-125.

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Blakey, Ronald C.; Ranney, Wayne; AND Loseke, Travis

- 2010 21.5407 Oligocene-Early Miocene incision, strike-valley development, and aggradation, Mogollon rim, Verde Valley region, Arizona—a potential analogue for pre-Grand Canyon development [ABSTRACT]. *In: CR_Evolution_2: Origin and Evolution of the Colorado River System II Workshop: May 24-26, 2010, Flagstaff, Arizona*, 6 pp.
- 2011 21.5534 Oligocene-Early Miocene incision, strike-valley development, and aggradation, Mogollon Rim, Verde Valley region, Arizona—A potential analogue for pre-Grand Canyon development. *In: Beard, L. Sue, Karlstrom, Karl E., Young, Richard A., and Billingsley, George H. (eds.), CRevolution 2—Origin and Evolution of the Colorado River System, workshop abstracts; May 24-26, 2010, U.S. Geological Survey, Flagstaff, Arizona. U.S. Geological Survey, Open-File Report 2011-1210*, pp. 38-45.

Blanchard, Arthur H.

- 1919 21.6616 (ED.-IN-CHIEF) *American highway engineers' handbook. First edition.* New York: John Wiley and Sons, Inc., and London: Chapman and Hall, Ltd., 1658 pp. [In section on "Engineering Geology", see map, p. 124, and see "The Colorado Plateaus", pp. 131-132.]

Blandy, John F.

- 1893 21.332 A peculiar case of stratification. *Engineering and Mining Journal*, 56(December 23): 638.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 47| |CITED» GCNHA Monograph 8: page 3-21| GOODMAN 947
- 1895 21.6501 The United States Geological Survey—how its work is done. *Engineering and Mining Journal*, 59(2) (January 12): 27. [Letter to the editor, regarding the USGS topographical sheet, "Prescott Sheet, Surveyed in 1885". Includes comments on Grand Canyon; note particularly the comment, "The fact is, that Major Powell and his Grand Canon are the standing subject of merriment to the residents of northern Arizona on account of the amount of labor expended on it and the amount of errors in the work."]
- 1897 21.333 An Arizona copper deposit. *Engineering and Mining Journal*, 64 (July 24): 97.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 47| |CITED» GCNHA Monograph 8: page 3-21| GOODMAN 705

Blank, H. Richard, AND Kucks, Robert P.

- 1989 21.334 Preliminary aeromagnetic, gravity, and generalized geologic maps of the USGS Basin and Range-Colorado Plateau transition zone study area in southwestern Utah, southeastern Nevada, and northwestern Arizona (the BARCO Project). *U.S. Geological Survey, Open-File Report 89-0432*, 16 pp., 3 sheets, scales 1:250,000.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-21|

Blank, H. Richard; Butler, William C.; AND Saltus, Richard W.

- 1998 21.335 Neogene uplift and radial collapse of the Colorado Plateau—regional implications of gravity and aeromagnetic data. *In: Friedman, Jules D., and Huffman, A. Curtis, Jr.*

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(eds.), Laccolith complexes of southeastern Utah: Time of emplacement and tectonic setting—workshop proceedings. *U.S. Geological Survey, Bulletin 2158*, pp. 9-32.

Blazey, Edward Brice

- 1971 21.336 *Fossil flora of the Mogollon Rim*. Doctoral dissertation, Arizona State University, 169 pp. [Includes stratigraphic correlations with Grand Canyon.]
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 8: page 3-21](#) |
- 1974 21.337 Fossil flora of the Mogollon Rim, central Arizona. *Palaeontographica*, 146(B): 1-20.
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 8: page 3-21](#) |

Blievernicht, Eric J.

- 1996 *21.4746* Genesis Flood or Cataclysm? *In*: Letters [SECTION]. *Creation Ex Nihilo Technical Journal*, 10(3): 331-332.

Bliss, James D.

- 1983 21.4556 Arizona; basic data for thermal springs and wells as recorded in GEOTHERM. *U.S. Geological Survey, Open-File Report 83-427*, 200 pp.

Bliss, James D., AND Pierson, Charles T.

- 1993 21.338 Mineral resource assessment of undiscovered mineral deposits for selected mineral deposit types in the Kaibab National Forest, Arizona; with a section on Mineral resource assessment of solution-collapse breccia pipe uranium deposits, by James D. Bliss and Charles T. Pierson. *U.S. Geological Survey, Open-File Report 93-329*, 61 pp.
- 1994 21.339 Mineral resource assessment of undiscovered solution-collapse breccia pipe uranium deposits in the Coconino National Forest, Arizona. *U.S. Geological Survey, Open-File Report 94-566*, 12 pp.

Blissenbach, Erich

- 1952 21.340 Geology of the Aubrey Valley, south of the Hualapai Indian Reservation, northwest Arizona. *Plateau*, 24: 119-127.
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 2: page 47](#) | [CITED» GCNHA Monograph 8: page 3-21](#) |

Blitch, William; Tobin, Benjamin; Heimel, Sierra; AND Sovie, Adia

- 2021 21.8334 Using a machine-learning approach to predict cave locations: Implications for speleogenesis [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 53(6): Abstract 121-6, doi:10.1130/abs/2021AM-370277. [Model developed at Grand Canyon National Park.]

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Bloch, John D.; Timmons, J. Michael; Crossey, Laura J.; Gehrels, George E.; AND Karlstrom, Karl E.

- 2006 21.4197 Mudstone petrology of the Mesoproterozoic Unkar Group, Grand Canyon, U.S.A.: Provenance, weathering, and sediment transport on intracratonic Rodinia. *Journal of Sedimentary Research*, 76(9): 1106-1119.

Block, Debra, AND Redsteer, Margaret Hiza

- 2011 21.7370 A dryland river transformed—the Little Colorado, 1936-2010. *U.S. Geological Survey, Fact Sheet 2011-3099*, 4 pp. [Principally regarding the reach between Winslow and Leupp, Arizona, but includes gage data at Cameron and of general interest for downstream discharge rates.]

Bloeser, Bonnie

- 1979 21.341 *Melamocyrrillium* [sic]; new acritarch genus from Kwagunt Formation (late Precambrian), Chuar Group, Grand Canyon Supergroup, Arizona [ABSTRACT]. *American Association of Petroleum Geologists, Bulletin*, 63: 420-421. [NOTE: "Melamocyrrillium", *nomen nudum*; genus named formally with species descriptions as *Melanocyrrillium* by Bloeser (1985, ITEM NO. 21.343).]
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 47| |CITED» GCNHA Monograph 8: page 3-21|
- 1980 21.342 *Structurally complex microfossils from shales of the late Precambrian Kwagunt Formation (Walcott Member, Chuar Group) of the eastern Grand Canyon, Arizona*. Master's thesis, University of California at Los Angeles, 188 pp.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-21|
- 1985 21.343 *Melanocyrrillium*, a new genus of structurally complex late Proterozoic microfossils from the Kwagunt Formation (Chuar Group), Grand Canyon, Arizona. *Journal of Paleontology*, 59: 741-765.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-21|
- 1989 21.344 Paragenesis of Upper Proterozoic coated grains, Kwagunt Formation, Chuar Group, Arizona [ABSTRACT]. *American Association of Petroleum Geologists, Bulletin*, 73(4): 534.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-21|

Bloeser, Bonnie; Schopf, J. William; Horodyski, Robert J.; AND Breed, William J.

- 1977 21.345 Chitinozoans from the late Precambrian Chuar Group of the Grand Canyon, Arizona. *Science*, 195: 676-679.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 47| |CITED» GCNHA Monograph 8: page 3-21|

Blount, R. E.

- 1901 21.5249 Exercises in United States topographical maps. *Journal of School Geography*, 5(4) (April): 129-133. [See particularly, "Mt. Trumbull Quadrangle", p. 132.] [Mount Trumbull.]

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Blum, M.

- 2017 21.7433 Reconstructing continental-scale paleodrainage and sediment routing from detrital zircons: examples from Mesozoic and Cenozoic North America [ABSTRACT]. *In*: Castellort, Sébastien, Clark, Julian, Fildani, Andrea, and Puigdefàbregas, Cai (conveners), *SEPM Research Conference : Propagation of Environmental Signals in Source-to-Sink Stratigraphy, June 5th-9th 2017 : conference abstracts*, 3 pp. [Includes brief note on late Paleozoic detrital zircon records from Grand Canyon.]

Blythe, Nathan O.

- 2005 21.4092 *Basin analysis associated with Middle-Miocene detachment faulting, eastern Lake Mead region, northwest Arizona.* Master's thesis, Northern Arizona University, 226 pp.

Bober, Katherine M. M.; Cace, Courtney R.; Matel, Theodore P.; Huegele, Indah B.; Boucher, Lisa D.; Hermsen, Elizabeth J.; Manchester, Steve R.; McCoy, Victoria E.; Santucci, Vincent L.; AND Tweet, Justin S.

- 2024 21.8531 An overview of Paleozoic paleobotanic resources documented in National Park Service areas [ABSTRACT]. *In*: Wilson, Jeffrey A. Mantilla, and Friedman, Matt (eds.), 12th North American Paleontological Convention, University of Michigan, 17-21 June 2024; Program with abstracts. *University of Michigan, Papers on Paleontology*, (39): 124-125.

Bock, Lowell

- 1977 *21.6653* Rocks, fossils and faith. *Lake Union Herald* (Seventh-day Adventists, Lake Union Conference, Berrien Springs, Michigan), 69(33) (August 30): 2. [Editorial, recounting a two-week field trip with other North American conference presidents conducted by the Seventh-day Adventist's Geoscience Research Institute. Includes Grand Canyon. Creationist perspective.]

Boesch, Hans Heinrich

- 1971 21.4465 Grand Canyon; géographie, géologie, geschichte. *Universität Zürich, Arbeiten aus dem Geographischen Instituts, Serie A*, (249), 76 pp. [In German.]
- 1971 21.7130 Géographie, Géologie und Geschichte. *In*: Heiniger, Ernst A., *Grand Canyon : Natur und Tierwelt in 157 Farbaufnahmen.* Bern, Switzerland: Kümmerly and Frey Geographischer Verlag; and München, Bern, and Wien: BLV Verlagsgesellschaft, pp. 13-76. [In German.]
- 1973 21.7131 Géographie, géologie et histoire. *In*: Heiniger, Ernst A., *Grand Canyon du Colorado : suite pour nature et faune en 157 images* (traduit de l'allemand par le Dr Pierre Champendal). Paris: Elsevier Séquoia, pp. 37-100. [In French; translated from German.]
- 1975 21.7132 Geography, geology and history. *In*: Heiniger, Ernst A., *Grand Canyon.* (Ewald Osers, translator.) Washington, D.C., and New York: Robert B. Luce Co., Inc., pp. 17-96. [In English; translated from German.]

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Boettcher, A. L., AND O’Neil, J. R.

- 1980 21.4793 Stable isotope, chemical, and petrographic studies of high-pressure amphiboles and micas: Evidence for metasomatism in the mantle source regions of alkali basalts and kimberlites. *American Journal of Science*, 280-A: 594-621.

Bohacs, Kevin M., AND Junium, Christopher K.

- 2007 21.6211 Microbial mat sedimentary structures and their relation to organic-carbon burial in the Middle Neoproterozoic Chuar Group, Grand Canyon, Arizona, USA. *In*: Scheiber, Juergen, Bose, Pradip, Eriksson, P. G., Sarkar, Subir, Altermann, Wladyslaw, and Catuneanu, Octavian (eds.), *Atlas of microbial mat features preserved within the clastic rock record*. Amsterdam and New York: Elsevier, pp. 208-213. (Volume: *Atlases in Geoscience*, 2.)

Bohannon, Robert G.

- 1984 21.346 Nonmarine sedimentary rocks of Tertiary age in the Lake Mead region, southeastern Nevada and northwestern Arizona. *U.S. Geological Survey, Professional Paper 1259*, 72 pp., 1 sheet.
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 8: page 3-21](#) |

Bohannon, Robert G., AND Anderson, R. E.

- 1978 21.347 Tertiary tectonic history of the eastern Basin and Range province in the vicinity of Lake Mead in southern Nevada and western Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 10: 96.
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 2: pages 33, 47](#) | [CITED» GCNHA Monograph 8: page 3-21](#) |

Bollin, Edgar Marshall

- 1955 21.350 *The geology of the Kaibab Formation, Marble Platform, Coconino County, Arizona*. Master’s thesis, University of Arizona, 105 pp., 3 plates.
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 2: page 47](#) | [CITED» GCNHA Monograph 8: page 3-21](#) |

Bölsche, Wilhelm

- 1906 21.6126 Die Schöpfungstage. *Die Gartenlaube* (Leipzig), 1906(7): 291-295. [Grand Canyon, p. 295, *in passing*.] [[In German.](#)]

Bommeli, R.

- 1912 21.8613 *Die Geschichte der Erde. II. Die Weltalter : Kurze Charakteristik der geologischen Perioden und Formationen*. Stuttgart: Verlag von J. H. W. Dietz Nachf. G.m.b.H., 103 [104] pp. [Volume has a paleontological focus, but see general remark concerning Grand Canyon, p. 23.] [[In German.](#)]

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- 1922 21.8549 Einiges über geologische Altersbestimmungen. *Geistesfreiheit* (Freigeistigen Vereinigung der Schweiz, Zürich), 1(5) (August 1): 6-7. [See p. 7, remarks on Clarence E. Dutton's attempt to determine the age of the Colorado River.] [*In German.*]
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Bond, Gerard, C.; Kominz, Michelle A.; AND Devlin, William J.

- 1983 21.351 Thermal subsidence and eustasy in the lower Paleozoic miogeocline of western North America. *Nature* (London), 306: 775-779.
 ≡ *CROSS-LISTINGS* |*CITED*» GCNHA Monograph 8: page 3-21|
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Bondurant, C. E.

- 1963 21.352 *Structural geology of a portion of the Hurricane fault zone, northern Mohave County, Arizona*. Master's thesis, University of Kansas.
 ≡ *CROSS-LISTINGS* |*CITED*» GCNHA Monograph 2: page 47| |*CITED*» GCNHA Monograph 8: page 3-21|
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Bonney, T. G.

- 1893 21.353 *The story of our planet*. New York: Cassell Publishing Co., 535 pp. [See pp. 109-111, color plate opposite p. 112.]
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Borsch, K.; Whitmore, John H.; Strom, Raymond; AND Hartree, George

- 2018 *21.7734* The significance of micaceous in ancient cross-bedded sandstones. *In*: Whitmore, John H. (Editorial Board Chairman), *Proceedings of the Eighth International Conference on Creationism, July 29-August 1, 2018, Pittsburgh, Pennsylvania, USA*. Pittsburgh, Pennsylvania: Creation Science Fellowship, Inc., pp. 306-326. [Coconino Sandstone.]
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Bottjer, D., AND Hagadorn, J. W.

- 2007 21.6352 Mat growth features. *In*: Scheiber, Juergen, Bose, Pradip, Eriksson, P. G., Sarkar, Subir, Altermann, Wladyslaw, and Catuneanu, Octavian (eds.), *Atlas of microbial mat features preserved within the clastic rock record*. Amsterdam and New York: Elsevier, pp. 53-71. (Volume: *Atlases in Geoscience*, 2.) [See Figure 4(a)-4, wrinkle structures and "*Kinneyia*" in fine-grained sandstones of the Chuar Group and Nankoweap Formation, Grand Canyon.]
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Bottke, Bill

- 1994 21.7602 (MODERATOR) Geologic history of the Colorado River. *In*: *Planetary Field Geology Practicum : PTYS 594a—Spring 1994 : Colorado Plateau—Grand Canyon*. Tucson: University of Arizona, Department of Planetary Sciences, Lunar and Planetary Laboratory, pp. 21-24.
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Boudreau, Diana M.

- 2019 21.7966 *Grand Canyon National Park : 2019 Paleontology Project After Action Report*. [Grand Canyon, Arizona]: U.S. National Park Service, iii, 55 pp. [Page iii should be page 1.] [Follows on the National Fossil Day activities at Grand Canyon National Park.]

Boudreau, Diana M.; Colvin, Ronnie; AND Spamer, Earle E.

- 2019 21.7834 The grand history of interpreting paleontological resources at Grand Canyon National Park [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 51(5): Paper No. 96-13
(<https://gsa.confex.com/gsa/2019AM/meetingapp.cgi/Paper/340594>).

Boudreau, Diana M.; Santucci, Vincent L.; Widrig, Klara; Nebel, Mark; Miller, Anne; Colvin, Ronnie; Besom, Kim; AND Hyde, Colleen

- 2020 21.8039 Chapter 12. Grand Canyon National Park paleontological resources management and protection. *In*: Santucci, Vincent L., and Tweet, Justin S. (eds.), *Grand Canyon National Park : centennial paleontological resource inventory (non-sensitive version)*. Fort Collins, Colorado: U.S. National Park Service, Natural Resource Stewardship and Science, pp. 465-503. (Volume: *Natural Resource Report NPS/GRCA/NRR—2020/2103*.)
- 2021 21.8263 Grand Canyon National Park paleontological resources management and protection. *In*: Santucci, Vincent L., and Tweet, Justin S. (eds.), *Grand Canyon National Park centennial paleontological resource inventory; a century of fossil discovery and research*. *Utah Geological Association, Special Publication 1*, pp. [unpaginated page facing 241], 241-266, A1-A2, B1 (pagination is contiguous). [Reset reprinting of Boudreau et al. (2020, *ITEM NO.* 21.8039).]

Boulenger, E.-V.

- 1905 21.5508 Grandes Conférences de Lille. I. Une traversée de l'Amérique du Nord. Canada. États-Unis. Mexique. *Société de Géographie de Lille (Lille, Roubaix, Tourcoing), Bulletin*, 44(7) (July): 5-27. [8th International Geographical Congress.] [See pp. 15-17.] [In French.]

Bouquet, H.

- 1907 21.5256 Le Rio Colorado. *La Vulgarisation Scientifique*, 4(6) (June 15): 143-146. [Item signed "H. B."] [Grand Canyon and lower Colorado River.] [In French.]

Boureau, Édouard

- 1964 21.355 Quatrième embranchement; Sphenophyta. *In*: Boureau, Édouard (ed.), *Traité de Paléobotanique* (publié sous la direction de Édouard Boureau). Tome III, Sphenophyta, Noeggerathiophyta. Paris: Masson et Cie., 544 pp. [See p. 64.] [In French.]
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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

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- 1881 21.5724 Canyons. Their character and origin—Paper read before the American Association for the Advancement of Science, by the Hon. William Bross, of Chicago. *Chicago Daily Tribune*, (August 25): 3. [*NOTE*: Bross's paper was published by title only in the AAAS *Proceedings* (Bross, 1882, *ITEM NO.* 21.5723). The text published here includes a concluding paragraph pertaining to a presentation at the AAAS meeting by Clarence E. Dutton on the Grand Canyon (Dutton, 1882, *ITEM NO.* 21.916). Although published in a newspaper, this paragraph from Bross is reproduced in full here because his commentary (with his own interpretations, however) is the only published source for the text of Bross's paper. Bross writes: "Let me add a very few words in conclusion upon a paper on the geologic history of the Colorado River and the plateau of it, read at the St. Louis meeting by Col. E. C. Dutton [*sic*], of Washington. This canon, as described by Maj. Powell who has the honor of braving almost incredible dangers to explore it and to give the world their first knowledge of its wonders, is some 1,500 miles long; the perpendicular walls are a mile or a fraction of it apart, and are from 1,000 to 5,000 feet high. They are composed of nearly all the series in the geologic catalog, from the granit [*sic*] all the way up to the highest igneous stratified rocks. Now this, by far the longest and in some respects the most wonderful cañon in the world, Col. Dutton described as having been worn down by the Colorado River. In view of the facts herein presented that conclusion seems supremely fanciful and absurd. Like all the others, it could only have been formed by some great convulsion of the earth's crust, and through it the drainage of nearly a thousand miles along the western slopes of the Rocky Mountains finds its way to the Gulf of California."]
- 1882 21.5723 Canons as I have seen them, with some thoughts as to their origin [TITLE ONLY]. *From*: Titles of other papers read in Section B. *In*: *Proceedings of the American Association*

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- 1941 21.431 Några bidrag till visingsöformationens stratigrafi och tektonik. *Geologiska Föreningens i Stockholm, Förhandlingar*, 63: 245-261. [Includes Grand Canyon.] [In Swedish, with summary also in German.]
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Brown, Chris R.

- 2008 21.6034 Delineation of recharge areas, groundwater flow pathways, and travel times on the Kaibab Plateau, Arizona [ABSTRACT]. *In*: McLemore, Virginia (ed.), *Proceedings of the AIPG/AHS/3rd IPGC Symposium, Flagstaff, Arizona, September 20-24, 2008 : American Institute of Professional Geologists, 45th Annual Meeting : Arizona Hydrological Society, 21st Annual Symposium : 3rd International Professional Geology Conference : Association of Earth Science Editors, Annual Meeting.* Westminster, Colorado: American Institute of Professional Geologists, p. 346.

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- 2008 21.4300 Delineation of recharge areas, groundwater flow pathways, and travel times on the Kaibab Plateau, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 40(6): abstract no. 173-11.

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Cao, Fang; Duan, Chengua; AND Zhang, Luyi [曹 劳; 段承华; 张录易]

- 1995 21.8222 陕西宁强梅树村阶瓶状微化石的发现及其意义 [Shǎnxī níng qiáng méi shù cūn jiē píng zhuàng wēi huàshí de fā xiàn jí qí yì]. Discovery of Meishucunian vase-shaped microfossils in Ningqiang, Shaanxi and its significances. 地质论评 [dìzhì lùn píng] / *Geological Review* (Beijing), 41(4) (July): 355-362, 2 plates. [See in section 5, “古生物学意义” [gǔshēngwù xué yìyì] [Paleontological Significance] (p. 359), notes on microfossils of the Chuar Group, Grand Canyon.] [In Chinese, with bilingual titles and abstract.]

Carden, R. S.

- 1993 21.4754 *Technology assessment of vertical and horizontal air drilling potential in the United States.* Amarillo, Texas: Grace, Shursen, Moore and Associates, for U.S. Department of Energy, Office of Fossil Energy, Morgantown Energy Technology Center, Morgantown, West Virginia, 61, 10 pp., map. (Contract no. DE-AC21-92MC28252.) [Mention of directional well drilled at Grand Canyon (*i.e.*, for new water pipeline), p. 32.]

Carey, Larkin

- 2024 21.8652 Galloway Creek Flash Flood, August 22, 2024. Rapid remodel. Dubendorf Rapid recieved [*sic*] a significant make-over this fall when a flash flood ravaged down Galloway Creek. It’s always amazing to see a dynamic system at work! *Boatman’s Quarterly Review*, 37(4) (Winter 2024/2025): 3. [Photo shows the debris-laden flood issuing from the mouth of the side canyon, as viewed from the opposite side of the river. Illustrates the anonymous item, “The Grand Canyon River Alert System: Request for Feedback.”]

Carlson, C. A., AND Reynolds, S. J.

- 1990 21.509 Arizona radiometric ages; HyperCard stack. *U.S. Geological Survey, Open-File Report 90-0704-A*, 5 pp.
 ≡ [CROSS-LISTINGS](#) [CITED» GCNHA Monograph 8: page 3-102]
- 1990 21.510 Arizona radiometric ages; HyperCard stack. *U.S. Geological Survey, Open-File Report 90-0704-B*, one 3.5-inch Macintosh diskette [requiring Macintosh computer with minimum 2MB RAM, hard disk, and HyperCard].
 ≡ [CROSS-LISTINGS](#) [CITED» GCNHA Monograph 8: page 3-102]

Carlson, Darrell D., AND Meyer, David F.

- 1995 21.511 Flood on the Virgin River, January 1989, in Utah, Arizona, and Nevada. *U.S. Geological Survey Water-Resources Investigations Report WRI 94-4159*, 21 pp., 1 sheet.

Carlson, Frederick Roberts

- 1974 21.6019 *Measurement of cobble abrasion in natural streams.* Master’s thesis, University of Arizona, 64 pp. [Includes Hermit Creek in Grand Canyon.]

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Carlson, Norman R.; Paski, Phillip M.; AND Urquhart, Scott A.

- 2005 21.5879 Applications of controlled source and natural source audio-frequency magnetotellurics to groundwater exploration. *18th Annual Symposium on the Application of Geophysics to Engineering and Environmental Problems, April 4-7, 2005, Atlanta, Georgia*, [12] pp. [East Mormon Mountains area, Nevada, and study site at Bellemont, Arizona. Subsurface.]

Carlsson, Diana

- 2016 21.7245 The Yavapai Province, crustal growth and metamorphic development. *In: Åslund, Henrik (ed.), The US Cordillera Excursion 2015*. Gothenberg, Sweden: University of Gothenberg, Department of Earth Sciences, Geovetarcentrum/Earth Science Centre, pp. 43-48. (University of Gothenberg, Department of Earth Sciences, Report, 2016 C122.) (Göteborgs Universitet. Naturvetenskapliga fakulteten.)

Carnegie Institution of Washington

- 1938 21.512 Extremely old fossil. *Pan-American Geologist*, 70: 151-152.
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 2: page 49] [CITED» GCNHA Monograph 8: page 3-25]
- 1938 21.513 Rarity of pre-Cambrian fossils. *Pan-American Geologist*, 70: 228-229.
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 2: page 49] [CITED» GCNHA Monograph 8: page 3-25]

Carnegie Institution of Washington, Exhibition Committee

- 1937 21.514 The annual exhibition representing research activities of Carnegie Institution of Washington. *Scientific Monthly*, 44 (June): 509-518. [See "Recent Cave Explorations in the Southwest", pp. 514-515; includes mention of Rampart Cave and Muav Cave.]

Carothers, Steven W., AND Brown, Bryan T.

- 1991 21.515 *The Colorado River through Grand Canyon : natural history and human change*. Tucson: University of Arizona Press, 235 pp. [Hardbound and paperbound states.] [Also later released through "Arizona Books on Request" on-demand publishing program.]
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 4-34] **FORD 80** FQ8:57 ["1993"] FQ9:94 ["1993"] FQ9A:11 ["1993"] FQ10:54A, 54B FQ11:62A, 62B FQ11A:33 FQ12:76A, 76B FQ12A:46 FQ13:79A, 79B FQ13A:43A, 43B FQ14:26 FQ15:79 FQ16:44 FQ17:83 FQ18:53 FQ19:115A, 115B FQ20:72A, 72B FQ21:36 FQ22B:29 FQ23:68 FQ24/1:137A, 137B FQ26:57 FQ30:60
 ≡ REVIEWS AND NOTICES Euler, 1993, ITEM NO. 30.89; Laird, 1991, ITEM NO. 30.139; Muys, 1992, ITEM NO. 30.206; Sadler, 1992, ITEM NO. 30.235; Zwinger, 1991, ITEM NO. 30.284

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Carpenter, Frank M.

- 1927 21.516 A fossil insect from the Lower Permian of the Grand Canyon. *U.S. National Museum, Proceedings*, 71(article 23), 4 pp.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 49| |CITED» GCNHA Monograph 8: page 3-25|
- 1928 21.517 A new protodonatan from the Grand Canyon. *Psyche*, 35: 186-190, Plate 5. [*Typus whitei*, new species; holotype from the Hermit Shale, Bright Angel Trail.]
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 49| |CITED» GCNHA Monograph 8: page 3-25|
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Carpenter, Mary C.

- 1999 21.3587 Late Pleistocene vertebrate communities of the lower Grand Canyon: Rampart and Muav Caves [ABSTRACT]. *In*: Abstracts of papers; Fifty-ninth Annual Meeting, Society of Vertebrate Paleontology, Adams Mark Hotel, Denver, Colorado, October 20-23, 1999. *Journal of Vertebrate Paleontology*, 19(3, Supplement): 36A.
- 2002 21.3805 *Vulpes vulpes* (red fox) remains from Stanton’s Cave, Arizona: first known record from the Grand Canyon [ABSTRACT]. *Journal of Vertebrate Paleontology*, 22(3, Supplement): 41A.
- 2003 21.4440 *Late Pleistocene Aves, Chiroptera, Perissodactyla, and Artiodactyla from Rampart Cave, Grand Canyon, Arizona*. Master’s thesis, Northern Arizona University, 333 pp.

Carpenter, Mary C., AND Mead, Jim I.

- 2000 21.3664 A mummified canid from a cave in the Grand Canyon, Arizona [ABSTRACT]. *In*: Abstracts of papers; Sixtieth Annual Meeting, Society of Vertebrate Paleontology, Fiesta Americana Reforma Hotel, Mexico City, Mexico, October 25-28, 2000. *Journal of Vertebrate Paleontology*, 20(3, Supplement): 33A.
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Carr, Harry

- 1932 21.518 *The West is still wild : romance of the present and the past*. Boston and New York: Houghton Mifflin Co., 257 pp. [See “A geological wonderland”, pp. 245-251.]
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 49| |CITED» GCNHA Monograph 8: page 3-25|
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Carr, Maria E., AND Isphording, Wayne C.

- 1994 21.520 Mineralogy and chemistry of shelf, mid-ocean and active margin limestones [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 26(3): 10-11. [Includes Kaibab Limestone, Redwall Limestone, Muav Limestone]
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Carson, Robert J.

- 1985 21.521 Which 25km of coast, river, road, or trail in the U.S.A. has the greatest geologic diversity? *Geological Society of America, Abstracts with Programs*, 17(7): 540.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-25|

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Carstens, Halfdan

- 2012 21.7172 The Colorado Plateau: A geologist's paradise. *GEO ExPro* (London), 9(2) (April): 54-56, 58-59.

Carter, John L.; Brezinski, David K.; Kollar, Albert D.; AND Dutro, J. Thomas, Jr.

- 2014 21.7252 Brachiopoda taxonomy and biostratigraphy of the Redwall Limestone (Lower Mississippian) of Arizona. *Carnegie Museum, Annals*, 82(3) (July 15): 257-290. [Localities include several in the Grand Canyon region. However, material (including that for types) is not itemized by catalog number according to localities, so distinguishing localities of holotype versus paratype material is not possible with this paper. New species include (only Grand Canyon localities are noted here): *Spinocariniifera (Seminucella) costatula*, which notes material from Thunder Springs Member, Pakoon; *Magnumbonella ampla*, which notes material from Mooney Falls Member, Pakoon; *Spirifer redwallensis*, which notes material from Thunder Springs member at Quartermaster Canyon, middle Thunder Springs Member at Hindu Canyon; top of Thunder Springs Member at Grandview; Mooney Falls Member at Peach Springs and Nelson. In addition, new species, unnamed for lack of better material include *Anthracospirifer*, n.sp., from base of Whitmore Wash Member at Quartermaster Canyon.]

Carter, Nell R.

- 1999 21.3608 *Trace metal concentrations of Hack Canyon Wash and Kanab Creek, Arizona*. Master's thesis, Northern Arizona University, 189 pp.

Carter, Robert H.

- 1991 *21.6654* Was the Earth created or did it evolve? *Lake Union Herald* (Seventh-day Adventists, Lake Union Conference, Berrien Springs, Michigan), 83(10) (October): 2. [Editorial, recounting a trip with 40 Seventh-day Adventist leaders and educators in a 12-day Geoscience Research Institute Field Conference. *Grand Canyon, in passing*. Creationist perspective.]

Carter, Sidney W.

- 2008 21.5008 *Investigating the intersections between the archaeological and geological components of the Grand Canyon landscape from a geoarchaeological perspective on ceramics and sources*. Doctoral dissertation, Stanford University, 242 pp.

Carter, Sidney W., AND Mahood, Gail A.

- 2004 21.5010 Identifying geological sources for Anasazi and Cohonina ceramic raw materials in the eastern Grand Canyon region through petrographic analysis [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 36(5): 213.

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Carter, Sidney W.; Wiegand, Bettina; Mahood, Gail A.; Dudas, Francis O.; Wooden, Joseph L.; Sullivan, Alan P., III; AND Bowring, Samuel A.

2003 21.5011 Strontium isotopic analysis as a tool for ceramic provenance research [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 35(6): 398-399.

Casadevall, Thomas J.; Tomey, Daniel; AND Roberts, Jessica

2019 21.7938 *World Heritage volcanoes : classification, gap analysis, and recommendations for future listings*. Gland, Switzerland: IUCN (International Union for Conservation of Nature), World Heritage Programme, 68 pp. [Cover includes the logos of United Nations Educational, Scientific and Cultural Organization, World Heritage Convention; World Commission on Protected Areas; and 문화재청 Cultural Heritage Administration.] [Grand Canyon noted, pp. 9, 54, 55; "Uinkaret Field and Vulcans Throne", p. 22; "Uinkaret volcanic field" (p. 56). All noted *in passing*.]

Casadevall, William P.

1989 21.522 Exploration geology of the Canyon breccia pipe south of Grand Canyon, Arizona [ABSTRACT]. *American Association of Petroleum Geologists, Bulletin*, 73(9): 1150.
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 8: page 3-102](#)

Case, E. C. [Case, Ermine Cowles]

1898 21.5748 The development and geological relations of the vertebrates. *Journal of Geology*, 6(4) (May/June): 393-416. [See p. 394: "The earliest remains of fishes known are from the Lower Ordovician [*sic*] rocks of the Grand Canyon region of the United States. These are the very imperfectly preserved remains of what seem to be scales and bones of fishes whose affinities cannot be made out from the material." (no further note of Grand Canyon)]

1915 21.523 The Permo-Carboniferous red beds of North America and their vertebrate fauna. *Carnegie Institution of Washington, Publication 207*, 176 pp. [See pp. 74, 75.]
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 8: page 3-25](#)

1919 21.524 The environment of vertebrate life in the late Paleozoic in North America; a paleogeographic study. *Carnegie Institution of Washington, Publication 283*, 273 pp. [See pp. 146-153.]

Case, Zachery T., AND Nielson, R. LaRell

2020 21.8051 Stratigraphic, depositional environmental and paleontologic analysis of the Harrisburg Member of the Kaibab Formation in north central Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 52(1): Paper 2-9, doi:10.1130/abs/2020SC-343754. [NOTE: The 2020 GSA section meetings, scheduled for the earlier part of the year, all were cancelled due to the COVID-19 pandemic, although the abstracts volumes were published.]

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Casebolt, L. L.; Faurote, J. M.; AND Pillmore, D. M.

- 1986 21.525 Underground geologic evaluation: Hack Canyon breccia pipe uranium ore body, Mohave County, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 18(5): 345.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-25|
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Casserstedt, Lovise

- 2012 21.6259 Rift basins in North America: Sedimentary and tectonic relationship. *In*: Axelsson, C., Casserstedt, L., Ekman, E., Gorne, N., Gustavsson, M., Hansson, S., Inerfeldt, A., Lidhage, H., Sjöqvist, A. S. L., Strand, C., and Zettervall, E., *The US Cordillera Excursion 2011* (Sjöqvist, Axel S. L., ed.). Göteborg, Sweden: Göteborgs Universitet, Institutionen för geovetenskaper, Avdelningen för Geologi, Geovetarcentrum, pp. 43-46.
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Castagne, Maurice

- 1990 21.3952 *Grand Canyon Orphan Mine: Grand Canyon National Park*. Mina, Nevada: Grand Canyon Orphan, 190+ pp.
 ≡ CROSS-LISTINGS FQ22:54 FQ22B:31 FQ23:73 FQ24/1:139
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Caster, Joshua; Sankey, Joel B.; Fairley, Helen; AND Kasprak, Alan

- 2022 21.8431 Terrestrial lidar monitoring of the effects of Glen Canyon Dam operations on the geomorphic condition of archaeological sites in Grand Canyon National Park, 2010-2020. *U.S. Geological Survey, Open-File Report 2022-1097*, 100 pp. [Colorado River reach between Lees Ferry and Diamond Creek.]

Caster, Joshua; Sankey, Joel B.; Sankey Temuulen Ts.; Kasprak, Alan; Bowker, Matthew A.; AND Joyal, Taylor

- 2024 21.8489 Do topographic changes tell us about variability in aeolian sediment transport and dune mobility? Analysis of monthly to decadal surface changes in a partially vegetated and biocrust covered dunefield. *Geomorphology*, 447 (February 15) (109021) (<https://doi.org/10.1016/j.geomorph.2023.109021>). [Study area "near Lees Ferry, Arizona, at the confluence of the Paria and Colorado rivers and the boundary between Glen Canyon National Recreation Area and Grand Canyon National Park"; "study site consists of a small aeolian dunefield comprised of river-sourced sand."]
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Castor, Stephen B., AND Faulds, James E.

- 2001 21.3984 Post-6 Ma limestone along the southeastern part of the Las Vegas Valley shear zone, southern Nevada. *In*: Young, Richard A., and Spamer, Earle E. (eds.), *Colorado River: Origin and Evolution : proceedings of a symposium held at Grand Canyon National Park in June, 2000*. Grand Canyon, Arizona: Grand Canyon Association, pp. 77-79. (Volume: *Grand Canyon Association, Monograph 12.*) [2004.]
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Cather, Steven M.

- 1999 21.526 Implications of Jurassic, Cretaceous, and Proterozoic piercing lines for Laramide oblique-slip faulting in New Mexico and rotation of the Colorado Plateau. *Geological Society of America, Bulletin*, 111(6): 849-868.
- 2010 21.5404 The Chuska erg: Paleogeomorphic implications of an Oligocene sand sea on the Colorado Plateau [ABSTRACT]. *In: CR_Evolution_2: Origin and Evolution of the Colorado River System II Workshop: May 24-26, 2010, Flagstaff, Arizona*, 6 pp.
- 2011 21.5535 Late Oligocene-early Miocene deep erosion on the southern Colorado Plateau and the southern Great Plains. *In: Beard, L. Sue, Karlstrom, Karl E., Young, Richard A., and Billingsley, George H. (eds.), CREvolution 2—Origin and Evolution of the Colorado River System, workshop abstracts; May 24-26, 2010, U.S. Geological Survey, Flagstaff, Arizona. U.S. Geological Survey, Open-File Report 2011-1210*, pp. 46-54.

Cather, Steven M.; Chapin, Charles E.; AND Kelley, Shari A.

- 2012 21.5892 Diachronous episodes of Cenozoic erosion in southwestern North America and their relationship to surface uplift, paleoclimate, paleodrainage, and paleoaltimetry. *Geosphere*, 8(6) (December): 1177-1206.

Cather, Steven M.; Connell, Sean D.; Chamberlin, Richard M.; McIntosh, William C.; Jones, Glen E.; Potochnik, Andre R.; Lucas, Spencer G.; AND Johnson, Peggy S.

- 2008 21.4220 The Chuska erg: Paleogeomorphic and paleoclimatic implications of an Oligocene sand sea on the Colorado Plateau. *Geological Society of America, Bulletin*, 120(1): 13-33.

Catlin, George

- 1870 21.5756 *The lifted and subsided rocks of America : with their influences on the oceanic, atmospheric, and land currents, and the distribution of races*. London: Trubner and Co. [Trübner and Co.], 228 pp. [See pp. 121-122, note; disbelieving remarks in "Professor Dana's 'Handbook of Geology'", regarding the size of Grand Canyon, "probably misrepresented in his excellent work by some typographical error." The author further believes that the canyon and indeed the Colorado Plateau are the results of "volcanic struggles" and, in subsidence, the opening of a great rift through which the Colorado River flowed. See also, peripherally, the footnote that appears on p. 99 and continued on the leaf tipped in between pp. 100/101.]

Cavalier-Smith, T.

- 2002 21.8213 The neomuran origin of archaeobacteria, the negibacterial root of the universal tree and bacterial megaclassification. *International Journal of Systematic and Evolutionary Microbiology*, 52: 7-76. [See p. 37, brief discussion of eukaryotic fossils (from Grand Canyon) and "plausibly eukaryotic fossils" in the Kwagunt Formation, Grand Canyon.]

Cave Research Foundation

- 2001 21.6243 Genesis, paleoenvironment, and paleogeomorphology of the Mississippian Redwall Limestone paleokarst, Hualapai Indian Reservation, Grand Canyon area. Mr. Tony Troutman, University of Texas at Austin. Grant award: \$1000. *In: Karst Research*

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Grant Awards [SECTION]. *CRF Newsletter* (Cave Research Foundation, Yellow Springs, Ohio), 29(1) (February): 10. [Includes abstract of research project.]

Cayla, Nathalie

2015 21.7376 Le Grand Canyon, une percée géomorphologique à travers l'histoire géologique de la planète. *In: Réunion d'automne de la commission du patrimoine géomorphologiques du CNFG, 2015, Paris, France.* [Comité National Français de Géographie.] [In French.]

Ceja-Cervantes, Vanessa

2019 21.7919 Celebrating 100 years of stewardship and 150 years of geology at Grand Canyon National Park [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 51(5): Paper No. 75-1 (<https://gsa.confex.com/gsa/2019AM/meetingapp.cgi/Paper/337874>).

Cepeda, Joseph C.

2005 21.6027 Fracture orientation and distribution on the Kaibab Plateau of northern Arizona. *Mountain Geologist*, 31(3) (July): 77-83.

Cerling, Thur E.; Poreda, Robert J.; Fenton, Cassandra R.; AND Webb, Robert H.

1998 21.3849 Grand Canyon; grand events [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 30(7): 299.

Cerling, Thur E.; Rigby, Alan D.; Webb, Robert H.; AND Poreda, Robert J.

1995 21.527 Cosmogenic ³He exposure ages of debris flows and lava dam outburst floods in the Grand Canyon, USA [ABSTRACT]. *Eos* (American Geophysical Union, Transactions), 76(46, Supplement): F684. [NOTE: "The Abstract Book, identified on the spine as a supplement to Vol. 76, Issue 46 of *Eos*, Transactions AGU, actually was a supplement to Issue 45, having been mailed with the November 7, 1995, tabloid. However, to avoid confusion and to ensure uniform citation, AGU prefers that you not correct this identification. A correction would be unlikely to reach all users, resulting in conflicting citations for the same material." —Memorandum to subscribers, from AGU, December 14, 1995.]

Cerling, Thur E.; Webb, Robert H.; Poreda, Robert J.; Rigby, Alan D.; AND Melis, Theodore S.

1999 21.3588 Cosmogenic ³He ages and frequency of late Holocene debris flows from Prospect Canyon, Grand Canyon, USA. *In: Cosmogenic isotopes in geomorphology. Geomorphology*, 27(1/2): 93-111.

Chadwick, Arthur V.

1978 *21.7341* Megabreccias: Evidence for catastrophism. *Origins*, 5(1): 39-46.

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- 1981 *21.528* Precambrian pollen in the Grand Canyon—a reexamination. *Origins*, 8(1): cover, 7-12. [See also comments by Clifford L. Burdick and by W. H. Rusch, Sr., *Origins*, 9(1): 7-9 (1982, *ITEM NOS.* 21.3911, 21.3912, respectively).]
 ≡ *CROSS-LISTINGS* | *CITED*» GCNHA Monograph 8: page 3-25|
- 1988 *21.7339* El Gran Cañon del Colorado y el problema del tiempo. *Ciencia de los Orígenes* (Geoscience Research Institute), (19) (January/April): 1, 3-4. [In Spanish.]

Chadwick, Arthur V.; DeBord, P.; AND Fisk, L. H.

- 1973 *21.529* Grand Canyon palynology—a reply. *Creation Research Society Quarterly*, 9(4): 238.
 ≡ *CROSS-LISTINGS* | *CITED*» GCNHA Monograph 8: page 3-25|

Chaffee, M. A.; Carlson, R. R.; Fey, D. L.; AND Theodorakos, P. M.

- 1992 21.530 Analytical results for rock and stream-sediment samples, Kaibab National Forest, Coconino County, Arizona. *U.S. Geological Survey, Open-File Report 92-509-A*, 2 sheets, scale 1:250,000.
- 1992 21.531 Analytical results for rock and stream-sediment samples, Kaibab National Forest, Coconino County, Arizona. *U.S. Geological Survey, Open-File Report 92-509-B*, one 5.25-inch diskette.

Chaffee, M. A.; Carlson, R. R.; AND Theodorakos, P. M.

- 1994 21.532 Regional geochemical studies in the Kaibab National Forest, Arizona. *In*: Carter, L. M. H., Toth, M. I., and Day, W. C. (eds.), USGS research on mineral resources—1994; Part A—Program and abstracts; Ninth V. E. McKelvey Forum on Mineral and Energy Resources. *U.S. Geological Survey, Circular 1103-A*, pp. 15-16.

Chaloner, W. G., AND Lacey, W. S.

- 1973 21.533 The distribution of late Paleozoic floras. *In*: Hughes, N. F. (ed.), *Organisms and continents through time; methods of assessing relationships between past and present biologic distributions and the positions of continents; a symposium volume of 23 papers. Special Papers in Palaeontology* (Palaeontological Association), (12): 271-289.
 ≡ *CROSS-LISTINGS* | *CITED*» GCNHA Monograph 8: page 3-102|

Chamberlain, C. Kent

- 1972 21.534 Evolution of the Permian trilobite *Anisopyge*. *Journal of Paleontology*, 46: 503-508.
 ≡ *CROSS-LISTINGS* | *CITED*» GCNHA Monograph 8: page 3-102|

Chamberlain, Kevin R., AND Bowring, S. A.

- 1988 21.535 Proterozoic crustal boundary in NW Arizona: evidence from zircon systematics and Pb isotopes [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 20(7): A50.
 ≡ *CROSS-LISTINGS* | *CITED*» GCNHA Monograph 8: page 3-25|

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- 1990 21.536 Proterozoic geochronologic and isotopic boundary in NW Arizona. *Journal of Geology*, 98: 399-416. [Complete copy of Table 1 available upon request from *Journal of Geology*.]

≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-102|

Chamberlain, Kevin R.; Bowring, S. A.; Williams, M.; AND Karlstrom, K. E.

- 1989 21.537 Differential uplift and protracted regional cooling in Proterozoic of NW Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 21(6): A142.

≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-25|

Chamberlin, Richard M., AND Anderson, Orin J.

- 1989 21.538 The southern margin of the Colorado Plateau: A ragged edge bounded by Neogene domains of crustal extension. *In*: Anderson, Orin J., Lucas, Spencer G., Love, David W., and Cather, Steven M. (eds.), *Southeastern Colorado Plateau. New Mexico Geological Society, 40th Annual Field Conference, Guidebook*, pp. 37-38.

≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-102|

Chamberlin, Thomas C., AND Salisbury, Rollin D.

- 1906 21.4937 *Geology. Vol. III. Earth history.* New York: Henry Holt and Co., 624 pp. [See pp. 275, 574.]

Chambers, Carol L.; Doucett, Richard; AND Mikesic, David G.

- 2005 21.4108 Long-term cave roosting and diet of spotted bats (*Euderma maculatum*) in northern Arizona as indicated by stable isotopes from mummified remains and live bats [ABSTRACT]. *In*: *Eighth Biennial Conference of Research on the Colorado Plateau, du Bois Center, Northern Arizona University, 7-10 November 2005 : program and abstracts of presented papers and posters (version 2.0)*, p. 34.

Chambers, Carol L.; Thomas, Shawn; Santucci, Vincent L.; Oswarld, Hattie; AND Ballensky, Jason

- 2024 21.8475 Ancient bat remains illustrate the role of caves as habitat anchors in the temporarily dynamic landscape of the Grand Canyon. *Parks Stewardship Forum*, 40(1): 39-52. [Features Double Bopper Cave and Leandras Cave.]

Chambers Consultants and Planners

- 1980 21.7656 *Paleontological resource inventory of the Lower Colorado River region : final report.* Stanton, California: Chambers Consultants and Planners, for U.S. Bureau of Reclamation, 98 pp. + appendices. (Sponsored in part by Water and Power Resources Service, Boulder City, Nevada.) [Coverage divided into regions: Grand Canyon; Lake Mead; Davis Dam to International Boundary; and Salton Sea.]

Chambless, Hannah

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Chisholm, Hugh

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Cita, Maria Bianca

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Clarey, Timothy L. [Clary, Tim]

- 2018 *21.8081* Grand Canyon carved by Flood runoff. *Acts and Facts* (Institute for Creation Research), 47(12) (December): cover, 3, 10-13.
- 2019 *21.7811* Four geological evidences for a young earth. *Acts and Facts* (Institute for Creation Research), 48(6) (June): cover, 3, 10-12. [Features Grand Canyon.]
- 2019 *21.7940* Observations support Grand Canyon Flood origin. *Acts and Facts* (Institute for Creation Research), 48(11) (November): 9. [Colorado River sediments exposed by the lowering Lake Mead, western Grand Canyon.]
- 2020 *21.8120* Lava flows disqualify lake spillover canyon theory. *Acts and Facts* (Institute for Creation Research), 49(10) (October): 10-12.
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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

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Clendenon, Cedric, AND Brand, Leonard

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- 1983 *21.6412* Evidencias de catastrofismo. Parte I: (Una articulo en tres partes). *Ciencia de los Orígenes* (Geoscience Research Institute), (6) (September/December): 1-4. [Grand Canyon, see p. 1.] [Article is in *four* parts; the remaining parts do not refer to Grand Canyon: (7) (January/April 1984): 3-5; (8) (May/August 1984): 1-2, 8, 7 [pagination reading order thus]; (9) (September/December 1984): 3-6.] [In Spanish.]

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- 2005 21.4158 Carbon isotopes from fossil packrat pellets and elevational movements of Utah agave plants reveal the Younger Dryas cold period in Grand Canyon, Arizona. *Geology*, 33(9) (September): 713-716.

Cole, Kenneth L., AND Davis, Owen K.

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Cole, Kenneth L., AND Mayer, Larry

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- 2003 21.3918 Holocene vegetational disequilibrium suggested by slow dispersal of late-successional trees and shrubs of western North America [ABSTRACT]. *In: 16th INQUA Congress : programs with abstracts, July 23-30, 2003, Reno Hilton Hotel and Conference Center, Reno, Nevada, USA.* Reno, Nevada: Desert Research Institute, p. 164. [International Union for Quaternary Research.]

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- 1979 21.621 Neogene paleogeography of the western United States. *In*: Armentrout, John M., Cole, Mark R., and TerBest, Harry, Jr. (eds.), *Cenozoic paleogeography of the western United States : Pacific Coast Paleogeography Symposium 3*. Los Angeles: Pacific Section, Society of Economic Paleontologists and Mineralogists, pp. 297-323.
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- 2014 21.6266 An analysis of geothermal and carbonic springs in the western United States sustained by deep fluid inputs. *Geobiology*, 12(1) (January): 83-98.

Coles, J.

- 1884 21.4115 New maps. *Royal Geographical Society, Proceedings, and Monthly Record of Geography, New Monthly Series*, 6(4) (April): 237-244. [See pp. 243-244: "United States.—Atlas to accompany the Monograph on the Tertiary History of the Grand Canon District, by Captain Clarence E. Dutton, U.S.A., Department of the Interior, United States Geological Survey. J. W. [sic] Powell, Director, Washington 1882. Julius Bien and Co. Lith. New York." Itemizes all sheets and adds (from Dutton's "List of Atlas Sheets"): "It is to be regretted that the survey of this portion of the country is not yet sufficiently advanced to admit of the construction of two additional sheets required to complete the cartography of the Grand Cañon District. It was desired that this atlas should contain the two sheets lying west of sheets XXII. and XXIII. of this atlas, but although much material has been obtained for their construction, much more is still required. No attempt to supply the defect has, therefore, been made in the present work".]

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- 1978 21.622 *Structural analysis of folds in Cambrian rocks adjacent to walls of the Grand Canyon*. Master's thesis, Stanford University.
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- 1980 21.624 *An introduction to Grand Canyon geology*. Grand Canyon Natural History Association, 48 pp. [*First state*: perfect-bound, p. [iv] indicates lithography by W. A. Krueger Co. *Second state*: saddle-stapled, p. [iv] reset with lithography credit omitted and ISBN number added, and "PLU 10120" at lower-right back cover.]
 ≡ *CROSS-LISTINGS* |*CITED*» GCNHA Monograph 2: pages 17, 50| |*CITED*» GCNHA Monograph 8: page 3-27| FQ11:70 FQ12B:42 FQ13:94 FQ15:92 FQ17:94 FQ19:493 FQ24/1:157 FQ26:70 FQ27:127 FQ28:132
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- 2008 21.4283 *Over the rivers : an aerial view of geology*. New York: Mikaya Press, 128 pp.

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- 2006 21.4164 Applicability of terrestrial LIDAR scanning for scientific studies in Grand Canyon National Park, Arizona. *U.S. Geological Survey, Open-File Report 2006-1198*, 27 pp.
- 2008 21.6559 Topographic change detection monitoring using terrestrial LiDAR at archaeological sites in the Colorado River corridor of Grand Canyon National Park, Arizona [ABSTRACT]. *Eos* (American Geophysical Union, Transactions), 89(53, Fall Meeting Supplement), Abstract G52A-04.

Collins, Brian D.; Bedford, David R.; Corbett, Skye C.; Cronkite-Ratcliff, Collin; AND Fairley, Helen C.

- 2016 21.6872 Relations between rainfall–runoff-induced erosion and aeolian deposition at archaeological sites in a semi-arid dam-controlled river corridor. *Earth Surface*

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Processes and Landforms, 41(7) (June 15): 899-917. [Colorado River corridor in Grand Canyon.]

Collins, Brian D.; Brown, Kristin, M.; AND Fairley, Helen C.

2008 21.4721 Evaluation of terrestrial LIDAR for monitoring geomorphic change at archeological sites in Grand Canyon National Park, Arizona. *U.S. Geological Survey, Open-File Report 2008-1384*, 60 pp.

Collins, Brian D.; Corbett, Skye C.; Fairley, Helen C.; Minasian, Diane; Kayen, Robert; Dealy, Timothy P.; AND Bedford, David R.

2012 21.6216 Topographic change detection at select archeological sites in Grand Canyon National Park, Arizona, 2007-2010. *U.S. Geological Survey, Scientific Investigations Report 2012-5133*, 77 pp.

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Collins, Brian D.; Minasian, Diane; AND Kayen, Robert

2009 21.4640 Topographic change detection at select archeological sites in Grand Canyon National Park, Arizona, 2006-2007. *U.S. Geological Survey, Scientific Investigations Report 2009-5116*, 58 pp.

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2015 *21.6765* When was Grand Canyon carved—millions of years ago or thousands of years ago? How do we know? *National Center for Science Education, Reports*, 35(4) (July/August): 2.1-2.8.

2018 *21.7425* Twenty-one reasons Noah’s worldwide flood never happened; here’s a geologist’s critical analysis of false perceptions held by many creationists about the origin of the Grand Canyon and the age of the earth. *Skeptical Inquirer*, 42(2) (March/April): 50-53.

Collins, Lorence G., AND Collins, Barbara J.

2012 *21.7012* More geological reasons Noah’s Flood did not happen. *National Center for Science Education, Reports*, 32(6) (November/December): 1.1-1.12.

Collins, Marian L. (ED.)

1959 21.8108 Big rock falls. *The Supai News*, (March 16): 1. [“Several people reported seeing a huge rock slide on March 9th. From here in the Valley it looks like a lot of Manakaja Point came loose and crashed down hundreds and hundreds of feet. The noise was so loud everyone thought a Jet was ‘buzzing’ Supai again. The dust came in through the little canyons above Joe Jones’ house. A wedge-shaped chimney fell up there and must have fallen over 1,500 feet.” (ENTIRE ITEM)]

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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

- 1959 21.8109 Earth shakes in Supai. *The Supai News*, (July 24): 1. ["Tuesday morning about 10:40 A. M. we were all surprised to feel the earth shake and our houses rock back and forth! One man said he was sitting in a chair reading when all of a sudden it began to move and at first he thought it was his dog underneath moving around. A lady working in her garden felt the earth shake and she said a piece of river bank fell in the water. Another chimney fell from Manakaja Point as a result of this earthquake. A visitor here said it felt like some of the San Francisco earthquakes and he considered it a fairly sharp one. This is not the first time for Supai as some of the old timers say they have felt them before down here. We are glad no rocks fell on any of us!" (ENTIRE ITEM)]

Collins, Michael

- 1969 21.8230 *Carrying the fire : an astronaut's journeys*. North Salem, New York: The Adventure Library.
- 2001 21.8231 *Carrying the fire : an astronaut's journeys*. Cooper Square Press, revised ed.
- 2019 21.8232 *Carrying the fire : an astronaut's journeys : 50th anniversary edition*. New York: Farrar, Straus and Giroux, xxxi, 478 pp. [See pp. 77-79, remarks on astronauts' geology study trip in Grand Canyon.]

Collins, Paul A.; Snyder, Noel F. R.; AND Emslie, Steven D.

- 2000 21.3732 Faunal remains in California condor nest caves. *The Condor*, 102(1) (February): 222-227. [Principally modern fauna of California; includes discussions of fossil remains in Grand Canyon.]

Collinson, D. W., AND Runcorn, S. K.

- 1960 21.626 Polar wandering and continental drift: Evidence from paleomagnetic observations in the United States. *Geological Society of America, Bulletin*, 71: 915-958. [See pp. 919-921, 923-924, 925, 929, 930, 932-933, 937, 940-941, 957-958.] [Erratum: The legends for figures 11, 12 (p. 937) are reversed, here and in the list on p. 915.]
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Colman, John

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Colton, Harold S.

- 1937 21.627 Some notes on the original condition of the Little Colorado River: A side light on the problems of erosion. *Museum Notes* (Museum of Northern Arizona), 10(6): 29-32.
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Comstock, Theodore B.

- 1890 21.4995 A preliminary report on the geology of the central mineral region of Texas. *Geological Survey of Texas, 1st Annual Report*, pp. 235-410. [See pp. 249, 280, 284; correlative references to Grand Canyon strata.]
- 1901 21.7394 The geology and vein-phenomena of Arizona. *American Institute of Mining Engineers, Transactions*, 30: 1038-1102. [See pp. 1053, 1090-1091, 1099-1100.]

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- 2017 21.7820 Little Colorado River memories. *USGS Retirees Newsletter* (U.S. Geological Survey), (175) (May): 22. [Recollections of work during summer 1957 when the author serviced streamflow gaging stations. Regarding access to the gaging station on the Little Colorado River near Cameron, "a hair raising experience" on an 800-foot cable 1,000 feet above the river in order to access a trail down to the gaging station.]

Condie, Kent C.

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Condit, Christopher D., AND Morrison, Roger B.

- 1991 21.630 Quaternary volcanic fields of the Colorado Plateau. *From*: Patton, Peter C., Biggar, Norma, Condit, Christopher D., Gillam, Mary L., Love, David W., Machette, Michael N., Mayer, Larry, Morrison, Roger B., and Rosholt, John N., Quaternary geology of the Colorado Plateau. *In*: Morrison, Roger B. (ed.), Quaternary nonglacial geology: Conterminous U.S. *Geological Society of America, Geology of North America, Volume K-2*, pp. 378-379. [Combined references for chapter, pp. 402-406.]
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Condit, Cailey; Bonamici, Chloe; Guevara, Victor; Williams, Michael L.; Karlstrom, Karl; Aikin, Nicole; Regan, Sean; AND Roberts, Nicolas.

- 2022 21.8404 How to build the mid-crustal strength beam: The role of melt emplacement in the Upper Granite Gorge, Grand Canyon [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 54(5): abstract 250-4,
<https://doi.org/10.1130/abs/2022AM-381150>.

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Condon, Steven M.

- 1997 21.631 Geology of the Pennsylvanian and Permian Cutler Group and Permian Kaibab Limestone in the Paradox Basin, southeastern Utah and southwestern Colorado. *In*: Huffman, A. C., Jr. (project coordinator), Evolution of sedimentary basins—Paradox Basin. *U.S. Geological Survey, Professional Paper 2000-P*, pp. P1-P46, 9 plates.

Condra, G. E., AND Elias, M. K.

- 1944 21.5613 Carboniferous and Permian ctenostomatous Bryozoa. *Geological Society of America, Bulletin*, 55: 517-568, 13 Plates. [See *Bascomella subsphaerica*, new species, pp. 541-542, Plate 1, figure 1; from Kaibab Limestone “near Bright Angle [*sic*] Trail just west of Grand Canyon [village]”; holotype Nebraska Geological Survey 449. (*NOTE*: Not included in Spamer’s accountings of Grand Canyon type fossils.)] [Bright Angel Trail.]
- 1945 21.632 *Bicorbula*, a new Permian bryozoan, probably a bryozoan-algal consortium. *Journal of Paleontology*, 19: 116-125.
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- 1978 21.635 Mesozoic-Cenozoic Cordilleran plate tectonics. *In*: Smith, R. B., and Eaton, G. P. (eds.), Cenozoic tectonics and regional geophysics of the western Cordillera. *Geological Society of America, Memoir 152*, pp. 33-50.
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- 1894 21.5100 *Report on governmental maps for use in schools. Prepared by a Committee of the Conference on Geography held in Chicago, Ill., December, 1892.* New York: Henry Holt and Co., 65 pp. + advertisements. [See “Trenched plateaus. Kaibab and Echo Cliffs, Ariz.”, pp. 16-17.]
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- 1974 21.637 Review of the development of oil and gas resources of northern Arizona. *In*: Karlstrom, T. N. V., Swann, G. A., and Eastwood, R. L. (eds.), *Geology of northern Arizona, with notes on archaeology and paleoclimate. Geological Society of America, Rocky Mountain Section, Guidebook 27, Part 1, Regional studies*, pp. 393-406.
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- 1974 21.5444 Review of the development of oil and gas resources of northern Arizona. *Arizona Oil and Gas Conservation Commission, Special Publication 1*, 10 pp.

Conley, J. N.; Scurlock, J. R.; AND Stacey, O. A.

- 1976 21.7491 (COMPILERS) Index of maps selected for energy-resource investigations in the State of Arizona. *Arizona Oil and Gas Conservation Commission, Special Publication 3*, 3 sheets.

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- 1975 21.638 Background geochemistry of some rocks, soils, plants, and vegetables in the conterminous United States. *U.S. Geological Survey, Professional Paper 574-F*, pp. F1-F168.
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- 1980 21.6606 *Preliminary inventory of pre-Cenozoic clay shales and argillites of the conterminous United States*. [No place]: Sandia Laboratories.

Connors, Timothy B.; Tweet, Justin S.; AND Santucci, Vincent L.

- 2020 21.8030 Chapter 3. Stratigraphy of Grand Canyon National Park. *In*: Santucci, Vincent L., and Tweet, Justin S. (eds.), *Grand Canyon National Park : centennial paleontological resource inventory (non-sensitive version)*. Fort Collins, Colorado: U.S. National Park Service, Natural Resource Stewardship and Science, pp. 45-74. (Volume: *Natural Resource Report NPS/GRCA/NRR—2020/2103*.)
- 2021 21.8255 Stratigraphy of Grand Canyon National Park. *In*: Santucci, Vincent L., and Tweet, Justin S. (eds.), *Grand Canyon National Park centennial paleontological resource inventory; a century of fossil discovery and research. Utah Geological Association, Special Publication 1*, pp. 33-54. [Reset reprinting of Connors *et al.* (2020, *ITEM NO.* 21.8030).]

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Contejean, Ch.

1874 21.4246 *Éléments de géologie et de paléontologie*. Paris: Librairie de J.-B. Baillièrre et Fils; London: Baillièrre, Tindall and Cox; and Madrid: C. Bailly-Baillièrre, 745+ pp. [See pp. 145-147.] [In French.]

Contreras-Joyha, Yarely; Roberts, Nicholas; AND Condit, Cailey

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Conway, F. Michael

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Conyers, Lawrence B.

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Conway, Clay M.

1994 21.640 Precambrian massive sulfide deposits in amphibolite- and granulite-facies rocks, western Arizona and southeastern California. *In*: Carter, L. M. H., Toth, M. I., and Day, W. C. (eds.), USGS research on mineral resources—1994; Part A—Program and abstracts; Ninth V. E. McKelvey Forum on Mineral and Energy Resources. *U.S. Geological Survey, Circular 1103-A*, p. 18.

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Conway, Clay M., AND Karlstrom, Karl E.

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1993 21.642 SW U.S. diabase province: a 1.1-Ga intrusion event of middle Grenville and middle Keweenawan age [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 25(1): 7.

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Cook, David A.

- 1991 21.643 Nitrogen diagenesis of a Proterozoic hydrocarbon source rock: the upper Proterozoic Walcott Member, Kwagunt Formation, Chuar Group, Grand Canyon, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 23(5): A290.
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Cook, Joseph P.; Pearthree, Philip A.; Gootee, Brian F.; Conway, Brian D.; AND Youberg, Ann M.

- 2016 21.7077 Landslides are surprisingly large and widespread in Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 48(7): Paper 150-11, doi:10.1130/abs/2016AM-285853. [Includes Vermilion Cliffs and Bitter Springs landslide of 2013 on U.S. Route 89.]

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- 1962 21.645 The problem of the mantle-crust mix—lateral inhomogeneity in the uppermost part of the earth's mantle. *In*: Landsberg, H. E., and Van Miegheem, J. (eds.), *Advances in geophysics. Volume 9.* New York: Academic Press, pp. 295-360.
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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

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| 1984 | 21.777 | <i>Story of the Grand Canyon of Arizona : how it was made.</i> Grand Canyon, Arizona: Fred Harvey, 48th ed., 64 pp. |
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⁸⁹ The admission of pseudonymous authorship is given in Dickens and Snelling (2008, *ITEM NO.* 21.5870): “Harry Dickens (*pseudonym*) is working as a geologist for a government department in Australia.” (p. 72). In later publications the name is not admitted as being a *pseudonym*. In Dickens (2017, *ITEM NO.* 21.8637), for example, they are listed as “Independent Scholar, Australia”.

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- Office. 1885.*) (SPINE TITLE FOR TEXT VOLUME: [top] "HOUSE MISCELLANEOUS DOCUMENTS 2^D SESS., 48TH CONG. 1884-'85 VOL. 11"; [bottom] "DUTTON [rule] TERTIARY HISTORY OF THE GRAND CANON DISTRICT [rule] WITH ATLAS". SPINE TITLE FOR ATLAS: [top] "HOUSE MISCELLANEOUS DOCUMENTS 2^D SESS., 48TH CONG. 1884-'85 VOL. 11"; [bottom] "ATLAS".) • [A re-release of Dutton (1882, *ITEM NO.* 21.918), as a part of the collated series of House Miscellaneous Documents for 1884-1885, not mentioned by Farquhar or in earlier editions of this bibliography. Text and Atlas title-pages are the same as for Dutton (1882), retaining date, but text volume adds the House Miscellaneous Documents series title-page (1885) cited above; atlas does not include a separate House Miscellaneous Documents title-page although it is identifiable from its spine labels. Atlas Sheets differ from 1882 publication in that the double-folio sheets are vertically and horizontally folded to accommodate quarto format (vertical fold in center as in original double-folio state, then folded horizontally to achieve quarto size). Quarto format also corroborated in *Checklist of Public Documents, Second Edition* (U.S. Government Printing Office, Superintendent of Documents, 1895, *ITEM NO.* 2.27756), p. 76. *Folded Atlas Sheets* each are also stamped with a numeral on the exterior (sheet verso) corner, enumerated 0 to 23, to facilitate identification of Atlas Sheets without having to unfold them: "0" is the title-page, "1" is the "List of Atlas Sheets" (equivalent to Atlas Sheet I), followed by 2-23 (Atlas Sheets II-XXIII, comprising tinted and chromo-lithographic maps and scenic views). Atlas title-page: *Department of the Interior United States Geological Survey J.W.Powell Director Atlas to Accompany the Monograph on the Tertiary History of the Grand Cañon District by Capt. Clarence E. Dutton U.S.A. [vignette] Washington 1882 Julius Bien and Co. Lith. New York.*] [Points relating to physical arrangement are provided with the assistance of Daniel F. Cassidy and Richard D. Quartaroli.]
- ≡ *CROSS-LISTINGS FARQUHAR (Fretwater Press 2003 reprinting only [i.e., Farquhar, 2003, ITEM NO. 1.218], see endnote 26, by Cassidy)*
- 1885 21.919 Mount Taylor and the Zuñi Plateau. *U.S. Geological Survey, 6th Annual Report*, pp. 105-203. [See pp. 117, 132, 144, 183, 191.]
 ≡ *CROSS-LISTINGS FQ7:63 FQ8:121 FQ9:175-177 FQ10:94 [disbound] FQ11:105 [disbound] FQ12:153 [disbound] FQ15:165 [disbound] FQ16:61 [volume] FQ17:129 [disbound] FQ18:109 [disbound] FQ20:116 [disbound]*
- 1887 21.5356 [Quotation.] *In*: Anonymous, Earthquakes and volcanoes. *American Meteorological Journal*, 4(3) (July): 102-103. [Notice of observations that "violent eruptions have [recently] taken place . . . one is . . . at the base of Mount Trumbull, on the border of the Grand canyon . . ." (ENTIRE NOTE)]
- 1932 21.5857 [Excerpt from Chapter 12 of *Tertiary History of the Grand Cañon District* (1882), on erosion.] *In*: Stone, Julius F., *Canyon country : the romance of a drop of water and a grain of sand*. New York and London: G. P. Putnam's Sons, pp. 206-248. [*NOTE*: Not examined here for faithful transcription.]
- 1967 21.920 The great denudation. *In*: Mather, K. F., and Mason, S. L. (eds.), *A source book in geology, 1400-1900*. Cambridge, Massachusetts: Harvard University Press, pp. 555-560 [abridged from *U.S. Geological Survey 2nd Annual Report*, pp. 95-103].
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- 1969 21.921 The character and geologic history of the Grand Canyon district. *In*: Watkins, T. H., and contributors, *The grand Colorado : the story of a river and its canyons*. [Palo Alto, California]: American West Publishing Co., pp. 298-303. [Abridged from Dutton (1882, Monograph 2; *ITEM NO.* 21.918).]

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- 1977 21.922 *Tertiary history of the Grand Cañon district : with atlas.* (Introduction by Wallace Stegner.) Santa Barbara, California, and Salt Lake City: Peregrine Smith, Inc., 264 pp. [text]; Atlas, 23 sheets [folded, laid in]. [Facsimile reprint of Dutton (1882, *U.S. Geological Survey Monograph 2*; *ITEM NO.* 21.918. Edition of 1,500 sets, boxed.)
 ≡ *CROSS-LISTINGS* |*CITED*» GCNHA Monograph 2: page 53| |*CITED*» GCNHA Monograph 8: page 3-33| FQ1:35 FQ3:42 FQ4:48 FQ5:56 [set], 56a [text] FQ6:53 [set], 53a [text] FQ7:61A FQ10:91 FQ12B:60 FQ13:139 [text] FQ15:166B FQ17:130B [set], 130C [Atlas only] FQ18:111A, B [set] FQ19A:21 [set] FQ20:117A [set] FQ21:74 [set] FQ22:90B [set] FQ23:108B [set] FQ24/1:229A, 229B FQ30:102 [set] FQ32:97C [set] THOMAS cites with Thomas 118
 ≡ *REVIEWS AND NOTICES* Anonymous, 1977, *ITEM NOS.* 30.937, 30.1026; Anonymous, 1978, *ITEM NO.* 30.1013; Moore, 1978, *ITEM NO.* 30.1209; Smith, 1977, *ITEM NO.* 30.1477
- 1978 21.923 *Tertiary history of the Grand Cañon district.* *Sierra*, 63 (April): 17-19. [Excerpt from *U.S. Geological Survey, Monograph 2.*]
 ≡ *CROSS-LISTINGS* |*CITED*» GCNHA Monograph 2: page 53| |*CITED*» GCNHA Monograph 8: page 3-33|
- 2001 21.3734 *Tertiary history of the Grand Cañon district.* (Introduction by Wallace Stegner, new foreword by Stephen J. Pyne.) Tucson: University of Arizona Press, pp. i-xxv, i-xiii, 1-264. [Facsimile reprint of text volume of Dutton (1882, *U.S. Geological Survey Monograph 2*; *ITEM NO.* 21.918), including color plates.]
 ≡ *CROSS-LISTINGS* FQ18:111C FQ20:117B FQ21:75 FQ22:90C FQ23:108C FQ24/1:230
 ≡ *REVIEWS AND NOTICES* Bynum, 2004, *ITEM NO.* 30.1422; Michelson, 2002, *ITEM NO.* 30.365
- 2010 21.5998 *Tertiary history of the Grand Cañon district.* [No place]: General Books. [An on-demand publication. Text only.]
- 2012 21.5999 *Tertiary history of the Grand Cañon district.* [No place]: ReInk Books, 452 pp. [An on-demand publication. Text only.]
- 2012 21.6000 *Tertiary history of the Grand Cañon district.* [No place]: Repressed Publishing LLC. [An on-demand publication. Text only.]
- 2013 21.6001 *Tertiary history of the Grand Cañon district.* [No place]: Miami. [An on-demand publication. Text only.]

Dutton, David; Trudgill, Bruce; AND Sanderson, David

- 2003 21.4544 Controls on the genesis, evolution and breaching of relay ramps: New insights from field studies (Hurricane fault, southwest Utah) and 3-D seismic analyses (offshore West Africa) [ABSTRACT]. *American Association of Petroleum Geologists, Annual Convention, Salt Lake City, Utah, May 11-14-2003.*

Dvorak, John

- 2014 21.6382 *Earthquake storms : the fascinating history and volatile future of the San Andreas fault.* New York and London: Pegasus Books, 254 pp. [Includes Grand Canyon, pp.

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94-99, specifically as historical background seen through the Grand Canyon field work of Levi F. Noble.]

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Dyman, T. S.; Schmoker, J. W.; Spencer, C. W.; Perry, W. J., Jr.; Price, L. C.; Palacas, J. G.; Dolton, G. L.; Burruss, R. C.; Keighin, C. W.; Hester, T. C.; Wandrey, C. J.; Vaughan, D. K.; Nielsen, D. T.; Obuch, R. C.; Baird, J. K.; AND Westcott, P. A.

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2016 21.7288 The HGS Grand Canyon field trip. *HGS Bulletin* (Houston Geological Society), 59(2) (October): cover, 1, 42-43. [May 2016.]

Earley, Mark A.

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 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 3-33]

1983 21.927 *A remanent magnetic test of the color alterations due to secondary heating of the Kaibab Limestone, Flagstaff, Arizona.* Master's thesis, University of Georgia.
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 8: page 3-33]

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2000 21.7265 *LIDAR and digital imagery mapping of Grand Canyon, Arizona.* Hagerstown, Maryland: EarthData Technologies, 14, [8] pp. [Glen Canyon Dam to Navajo Bridge, lower portion of Paria River, and Glen Canyon Dam forebay area.]

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- 2015 21.6819 A landscape-scale assessment of archaeological-site condition and preservation in the Colorado River corridor, Grand Canyon, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 47(7): 516.
- 2016 21.6999 Conditions and processes affecting sand resources at archeological sites in the Colorado River corridor below Glen Canyon Dam, Arizona. *U.S. Geological Survey, Professional Paper 1825*, 104 pp.

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- 2017 21.7269 Modern landscape processes affecting archaeological sites along the Colorado River corridor downstream of Glen Canyon Dam, Glen Canyon National Recreation Area, Arizona. *U.S. Geological Survey, Scientific Investigations Report 2017-5082*, 22 pp.

Easton, W. H.

- 1952 21.928 Corals from the Redwall limestone (Mississippian) of Arizona [ABSTRACT]. *Geological Society of America, Bulletin*, 63: 1246.
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- 1953 21.929 Corals from the Redwall limestone (Mississippian) of Arizona. *Southern California Academy of Sciences, Bulletin*, 52(1): 1-27.
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- 1974 21.930 Cenozoic volcanism and tectonism of the southern Colorado Plateau. *In: Karlstrom, T. N. V., Swann, G. A., and Eastwood, R. L. (eds.), Geology of northern Arizona, with notes on archaeology and paleoclimate. Geological Society of America, Rocky Mountain Section, Guidebook 27, Part 1, Regional studies*, pp. 236-256.
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- 1982 21.4507 The Basin and Range Province: Origin and tectonic significance. *In: Wetherill, George W.; Albee, Arden L.; and Stehli, Francis G. (eds.), Annual review of earth and planetary sciences. Vol. 10, 1982. Palo Alto, California: Annual Reviews, Inc.*, pp. 209-440.
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- 1978 21.932 Regional gravity and tectonic patterns: Their relation to late Cenozoic epeirogeny and lateral spreading in the western Cordillera. *In: Smith, R. B., and Eaton, G. P. (eds.)*,

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Cenozoic tectonics and regional geophysics of the western Cordillera. *Geological Society of America, Memoir 152*, pp. 51-91.

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- 1995 21.933 Redwall Limestone karst and Colorado River evolution during late Tertiary, Grand Canyon Nat. Park, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 27(6): A-211.
- 1996 21.3930 Redwall Limestone karst and Colorado River evolution during late Tertiary, Grand Canyon National Park, Arizona [ABSTRACT]. *Journal of Cave and Karst Studies*, (April): 60.
- 2000 21.3615 Redwall limestone karst and Colorado River evolution in Grand Canyon [ABSTRACT]. *In*: Young, Richard A. (coordinator, preparer), *Abstracts for a working conference on the Cenozoic geologic evolution of the Colorado River system and the erosional chronology of the Grand Canyon region : June 7-9, 2000, Grand Canyon National Park, Arizona*. [Geneseo, New York: State University of New York at Geneseo], pp. 18-19. [Young's note: "Many of the abstracts contained in this volume are preliminary, *unreviewed* working documents and should not be cited as formal references in other research papers."]

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- 1987 21.934 *Earth treasures. Volume 4. The southwestern quadrant : Arizona, Arkansas, California, Colorado, Louisiana, Nevada, New Mexico, Oklahoma, Texas, and Utah*. New York: Harper and Row, 740 pp.
- ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 8: page 3-33](#)

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- 1983 21.935 Paleocology of two Permian fossil communities in the Kaibab Formation, northern Arizona [ABSTRACT]. *Arizona-Nevada Academy of Science, Journal*, 18 (1983 Proceedings Supplement): 58-59.
- ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 8: page 3-33](#)

Edwards, Ira

- 1923 21.4895 Geological fieldwork at the Grand Canyon, Arizona. *Public Museum of the City of Milwaukee, Yearbook 1922*, 2: 89-113.
- 1925 21.936 A second season at the Grand Canyon, Arizona. *Public Museum of the City of Milwaukee, Yearbook 1923*, 3: 47-62. [See also S. A. Barrett (1925, [ITEM NO. 2.15998](#)).]
- ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 2: page 53](#) | [CITED» GCNHA Monograph 8: page 3-33](#)
- 1926 21.6904 The new geological groups. *Public Museum of the City of Milwaukee, Yearbook 1924*, 4: 122-129. [Museum dioramas. Grand Canyon group, see pp. 124-128.]

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- 2004 21.4831 The geologic record of early Mars: A layered, cratered, and “valley-ed” volume. *35th Lunar and Planetary Science Conference, Houston, Texas*, abstract no. 1188, 2 pp. [Grand Canyon geology compared.]

Effinger, W. L.

- 1935 21.937 *A report on the geology of the southwestern United States*. Berkeley, California: U.S. National Park Service, Field Division of Education, 52 pp. (“Mimeographed with the assistance of workers furnished through the SERA [State Emergency Relief Administration] of California.”) [Not illustrated.]
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- 2018 21.8105 Invisible frontier; inside the hidden world of Grand Canyon caves. *The Gulch* (Durango, Colorado), (5) (October/November): 3, 8-17.
- 2024 21.8564 Ancient bats: Inside the Grand Canyon’s longest known cave. *Colorado Plateau Advocate*, (Fall/Winter): cover, 2, 4-13. [Not noted by name but pertains to the Double Bopper cave system. Includes preserved *in situ* remains of Townsend’s big-eared bats, some aged beyond the ability of carbon dating.]

Ehler, J. Buck; Willis, Grant C.; AND Doelling, Hellmut H.

- 2007 21.4350 New GIS version of the geologic map of the Kanab 30’ × 60’ quadrangle comes to life! An alternative way to represent relief on a geologic map [*ABSTRACT*]. *Geological Society of America, Abstracts with Programs*, 39(5): 37. [Geographic Information System.]

Ehrenfeld, Frederick

- 1916 21.5737 Jointing as a fundamental factor in the degradation of the lithosphere. *American Philosophical Society, Proceedings*, 55(5): 363-399. [See pp. 365, 367, 368; Grand Canyon, *in passing*.]

Einecke, Gustav

- 1914 21.5158 Asbest. *In*: Dammer, Bruno, and Tietze, Oskar, *Die Nutzbaren Mineralien : mit Ausnahme der Erze, Kalisalze, Kohlen und des Petroleums. Zwei Bände. II. Band*. Stuttgart: Verlag von Ferdinand Enke, pp. 223-282. [See p. 250, passing notice of three asbestos works in Grand Canyon.] [“Asbest” section author credit (by surname) is given on p. v; full name spelled on title-page.] [*In German.*]
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- 1958 21.938 [Comment on “Mechanics of streams with movable beds of fine sand” by Norman H. Brooks.] *American Society of Civil Engineers, Transactions*, 123: 553-562. [Paper by Brooks, pp. 526-549; followed by discussions, and reply by Brooks, pp. 572-594.]

Eisenack, Alfred

- 1966 21.939 Über *Chuarina wimani* Brotzen. *Neues Jahrbuch für Geologie und Palaeontologie*, 1: 52-56. [Includes *Chuarina circularis*, Grand Canyon.] [In German.]
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- 1998 21.4543 A summary of the geology and hydrogeology of the Cedar Valley drainage basin, Iron County, Utah. *Utah Geological Survey, Open-File Report 360*, 14 pp.

Eissa, Leila

- 2011 21.8284 *Utilisation des méthodes de l’astrogéodésie et de la géodésie spatiale pour des études de déformation de l’écorce terrestre: représentation des déformations et de leur degré de significativité par un champ régulier de tenseurs*. Doctoral dissertation, Université Paris-Est, 195 pp. [See section 3.2, “Vecteurs déplacement horizontaux”, which begins with the example of tectonics of the Colorado Plateau.] [In French.]

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- 1989 21.7097 Paleomagnetism of the Moenave Formation: Implications for the Mesozoic North American apparent polar wander path. *Geology*, 17(3) (March): 245-248. [Sampling locations include sites in the Vermilion Cliffs northwest of Pipe Spring, Arizona.]

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 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 53| |CITED» GCNHA Monograph 8: page 3-34|
- 1981 21.941 Space-borne radar imaging of the Grand Canyon, Arizona, USA. *Photo-Interprétation*, 20(4): 10.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-34|

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- 2017 21.7290 How I spend my summer vacations. *Pacific Petroleum Geology Newsletter* (American Association of Petroleum Geologists, Pacific Section), (September/October): cover, 3, 7-9. [Features Grand Canyon.]

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- 1993 21.4453 *A study of the Early Permian Coconino Sandstone, Arizona.* Bachelor's thesis, University of Wolverhampton [United Kingdom], 42, [37] pp.

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- 1998 *21.4262* Bibliolatry in the Grand Canyon. *National Center for Science Education, Reports*, 18(4) (July/August): cover, 8-15. [Critical review of creationist ideas.]
- 1999 *21.4531* Creationist scholarship in the Grand Canyon. *National Center for Science Education, Reports*, 19: 15-19.
- 1999 *21.6588* Should we teach both evolution and creationism? The case of the Grand Canyon [ABSTRACT]. *American Geophysical Union, 1999 Fall Meeting*, Abstract EP41A-07.
- 2003 *21.4281* Different views of the Grand Canyon. *Eos* (American Geophysical Union, Transactions), 84(38): 384-385. [See also Comment by Michael W. Asten, 85(1): 3.]
- 2004 *21.4008* Bibliolatry revisited; Grand Canyon: A Different View, compiled by Tom Vail. *National Center for Science Education, Reports*, 24(1) (January/February): 33-36. [Review of Vail (2003).]

Elders, Wilfred A.; Espinosa-Cardena, J. M.; Martin Barajas, Arturo; AND Hunt, A. G.

- 2001 21.6585 Synthesis of geological and geophysical data on the delta of the Colorado River with relevance to the evolution of the Grand Canyon of Arizona, USA [ABSTRACT]. *Eos* (American Geophysical Union, Transactions), 82(47, Fall Meeting Supplement), Abstract H52B-0411.

Elias, G. K.

- 1958 21.942 Nomenclature chart of the Four Corners' area. *In*: Anderson, Roger Y., and Harshbarger, John W. (eds.), *Guidebook of the Black Mesa Basin, northeastern Arizona. New Mexico Geological Society, 9th Field Conference, Guidebook*, p. 65.
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- 1946 21.3735 Fossil symbiotic algae in comparison with other fossil and living algae. *American Midland Naturalist*, 36(2) (September): 282-290. [See p. 288.]
- 1947 21.6744 Algae in Recent and ancient reefs. *In*: U.S. National Research Council, Division of Geology and Geography, *Report of the Committee on a Treatise on Marine Ecology and Paleoecology, 1946-1947 : presented in preliminary form as Appendix H at the Annual Meeting of the Division, May 2, 1947*. Washington, D.C.: U.S. National Research Council, Division of Geology and Geography, pp. 73-76. (Report of the Committee on a Treatise on Marine Ecology and Paleoecology, 7.) [See pp. 74-75, regarding Permian *Bicobula* from Grand Canyon: "The phytomorph in this consortium is apparently related to the living red algae *Marchessetti* and *Liagora* from the Southern Pacific."]

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- 1995 21.944 Packrat middens, archives of desert biotic history. *In*: Nierenberg, William A. (ed.-in-chief), *Encyclopedia of environmental biology*. Volume 3, O-Z, Index. San Diego, California: Academic Press, pp. 19-35.
- 1997 21.945 *The ice-age history of Southwestern national parks*. Washington, D.C., and London: Smithsonian Institution Press, 200 pp.
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- 2007 21.6863 Rodent middens. *In*: Elias, Scott A. (ed.-in-chief), *Encyclopedia of Quaternary science*. Volume 4, Pol-Z. Amsterdam, Boston, Heidelberg [etc.]: Elsevier, pp. 2356-2367. [Includes (p. 2357) Figure 2, "Packrat (*Neotoma*) midden sample from a rock shelter at Emery Falls, Grand Canyon, Arizona" (in-situ photo by Thomas Van Devender). Also includes discussions pertaining to middens of the Grand Canyon and lower Colorado River regions.]
- 2013 21.6864 Rodent middens. *In*: Elias, Scott A. (ed.-in-chief) and Mock, Cary J. (associate ed.), *Encyclopedia of Quaternary science*. Volume 4, Pol-Z. Amsterdam, Boston, Heidelberg, London, New York, Oxford, Paris, San Diego, San Francisco, Singapore, Sydney, and Tokyo: Elsevier, 2nd ed., pp. 674-683. [Includes (p. 675) Figure 2, "Packrat (*Neotoma*) midden sample from a rock shelter at Emery Falls, Grand Canyon, Arizona" (in-situ photo by Thomas Van Devender). Also includes discussions pertaining to middens of the Grand Canyon and lower Colorado River regions.]

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- 1992 21.946 Late Quaternary arthropods from the Colorado Plateau, Arizona and Utah. *Great Basin Naturalist*, 52(1): 59-67.
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- 1991 21.947 Intracontinental contraction in western North America: Continuity and episodicity. *Geological Society of America, Bulletin*, 103: 1226-1238.
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- 2004 21.4587 GeoJourney: An interdisciplinary expeditionary field trip across the United States [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 36(5): 553.

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- 1989 21.948 Devonian placoderms from Flagstaff[,] Arizona [ABSTRACT]. *Arizona-Nevada Academy of Science, Journal*, 24(1989 Proceedings Supplement): 46.
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- 2016 *21.6985* Trace fossils; footprints and imprints of past life. *In*: Hill, Carol A., Davidson, Gregg, Helble, Tim, and Ranney, Wayne (eds.), *The Grand Canyon : monument to an ancient earth : can Noah's Flood explain the Grand Canyon?* Grand Rapids, Michigan: Kregel Publications; and Tulsa, Oklahoma: Solid Rock Lectures, pp. 152-159.

Elliott, David K., AND Bartlett, Rickey W.

- 2013 21.6911 A new trace fossil from the Permian Coconino Sandstone of northern Arizona. *In*: Lucas, Spencer G., DiMichele, William A., Barrick, James E., Schneider, Joerg W., and Spielmann, Justin A. (eds.), *The Carboniferous-Permian transition. New Mexico Museum of Natural History and Science, Bulletin 60*, pp. 79-80. [Small conical pits like those of modern antlion larvae are described from occurrences near Ash Fork, Arizona.]

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- 1874 21.7714 On recent geological and geographical researches in Arizona and Nevada [ABSTRACT]. *Philosophical Society of Washington, Bulletin* (Washington, D.C.), 1: 54-56. [Volume 1 (March 1871-June 1874) collated in *Smithsonian Miscellaneous Collections*, 20 (1881).]
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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

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- 2022 21.8654 *Hypogene speleogenesis in the Grand Canyon; observational, mineralogical, and geochemical investigations from the Bopper Cave System*. Master's thesis, University of Kentucky, 105 pp. [Features Double Bopper Cave and Leandras Cave.]

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- 2022 21.8383 Geospatial applications of cave resource data to better understand epikarst and unsaturated zone groundwater flow path development. *Geosciences* (MDPI: Multidisciplinary Digital Publishing Institute, Basel, Switzerland), 12(47), <https://doi.org/10.3390/geosciences12020047>, 12 pp. + data accessible online, irma.nps.gov, and kgs.uky.edu/kgsweb/main.asp. [Study sites are Bopper cave system, Grand Canyon, and California Cave, Kentucky.]
- 2022 21.8399 Hypogene speleogenesis in the Grand Canyon: Mineralogical, structural, and geospatial investigations from the Bopper Cave system [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 54(5): abstract 160-10, <https://doi.org/10.1130/abs/2022AM-381121>. [Features Double Bopper Cave and Leandras Cave.]

Heimel, Sierra M.; Blicht, William; Tobin, Benjamin; AND Burger, Paul

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		Science Fellowship, Volume 2, pp. 115-128. [Sites photographed for this study include "Marble Canyon" and "rd. to Lees Ferry"; both in Triassic Shinarump and Moenkopi Formations. Study applies to the postulated formation of lakes, plugged at the Kaibab Uplift.] [Includes Discussions by Steven A. Austin (p. 125; with reply by Holroyd, pp. 126-127), Glenn R. Morton (p. 125; with reply by Holroyd, p. 127), and Bernard E. Northrup (pp. 125-126; with reply by Holroyd, pp. 127-128).
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rail road and route map, to the gold mines. Published by W. B. Horner [See in Chapter 5, "Will Gold Be Found in the Mountains?"; p. 40, Colorado River and "Canon of the Colorado" noticed: "Moreover, the Colorado river, in escaping to the sea, pierces the Cordillera of the Andes diagonally, having rent its way by a chasm bored through the very bowels of the Cordillera, athwart from base to base. This chasm, four hundred miles in length, is known as the Canon of the Colorado. This canon presents the unique and novel fact to mankind, that a primary mountain chain whose summit is of the auriferous rocks, is thus gorged to its foundations, many thousand feet in depth! It is here upon the plateau, in the arcana of the mountain formation, and the activity of the stupendous forges of nature, that the precious metals may be sought to mass and position." (ENTIRE NOTE)]

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- 2007 21.7687 *Ft. Pearce Wash : stability study update : Washington County, Utah : draft*. Tempe, Arizona: JE Fuller Hydrology and Geomorphology, Inc., 21 pp. [Study area in Utah, beginning at the Utah-Arizona boundary.]
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- 1991 21.1617 Devonian lithofacies of western United States. *In*: Cooper, John D., and Stevens, Calvin H. (eds.), *Paleozoic paleogeography of the western United States—II. Volume 1*. Los Angeles: Society of Economic Paleontologists and Mineralogists, Pacific Section, pp. 83-105.
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- 2007 21.4568 Grand Canyon geologic float trip? *The Maine Geologist* (Geological Society of Maine Newsletter), 33(3) (October): 3-4. [Announcement.]

Jones, C. Irwin

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Jones, Casey J. R.

- 2017 21.7231 Student research spotlight: Casey J. R. Jones. Spring hydrograph and recession curve analysis in deep karst R aquifer of Grand Canyon National Park. *Arizona Geological Society Newsletter*, (June): 3-4.

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- 2016 21.7197 Natural and artificial tracers in a deep karst aquifer, Kaibab Plateau, Arizona [ABSTRACT]. *In: Thriving in a Tough Neighborhood : Fortune Favors the Prepared : 29th Annual Symposium of the Arizona Hydrological Society, Tucson, AZ, September 14-17, 2016.*
- 2017 21.7551 Roaring Springs hydrograph and recession curve analysis in deep karst Redwall-Muav aquifer, Grand Canyon National Park [ABSTRACT]. *In: 14th Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region, September*

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Kirschvink, J. L.; Elston, D. P.; Petterson, R.; Hagadorn, J. W.; Raub, T. D.; Evans, D. A.; Rose, E. C.; Weiss, B. P.; AND Barr, T. D.

- 2006 21.6566 Rapid polar wander in North America during the Early Cambrian: Paleomagnetic and magnetostratigraphic constraints from the Puerto [*sic*] Blanco volcanics from Caborca, and the Tapeats Sandstone of the Grand Canyon [ABSTRACT]. *Eos* (American Geophysical Union, Transactions), 87(52, Fall Meeting Supplement), Abstract GP34A-06. [Puerto Blanco Formation near Caborca, Sonora, Mexico.]

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Kiver, Eugene P., AND Harris, David V.

- 1999 21.5705 *Geology of U.S. parklands*. New York and Chichester: John Wiley and Sons, Inc., 5th ed., 902 pp. [For previous eds. see Harris, and see Harris and Kiver; formerly titled, *The geologic story of the national parks and monuments*.]

Klawitter, Matthias; Pistellato, Davide; Webster, Anthony; AND Esterle, Joan

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Kleinfelder West, Inc.

- 2013 21.6136 *Geotechnical assessment : Bitter Springs landslide, US Highway 89—MP 526, ER-089-E(205)T, TRACS H 8641 01D, Coconino County, Arizona*. Tempe, Arizona: Kleinfelder West, Inc., for Arizona Department of Transportation, Materials Group, Phoenix, 58 pp. + plates [463 pp. total]. [William V. McCormick, Principapl Engineering Geologist; Keith H. Dahlen, Senior Principal Professional; Jeff C. Richmond, Project Geologist.] [MP = mile post.]

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- 1896 21.5090 Entwicklung, Organisation und Leistungen der geologischen Landesaufnahmen in den Vereinigten Staaten von Nordamerika. *Zeitschrift für Praktische Geologie*, 1896 (August): 289-352. [See pp. 290-291, 294-295.] [In German.]

Klockenbrink, T. L.

- 1979 21.1750 Lexicon of Paleozoic stratigraphic names used in northwestern Arizona and southeastern Nevada. *In*: Beus, Stanley S., and Rawson, Richard R. (eds.), Carboniferous stratigraphy in the Grand Canyon country, northern Arizona and southern Nevada. 9th International Congress of Carboniferous Stratigraphy and Geology, Field Trip no. 13. *American Geological Institute, AGI Selected Guidebook Series*, (2): 133-138.
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Klöcking, Marthe; White, Nicholas J.; Maclennan, John; AND Fitton, J. Godfrey

- 2016 21.8237 A magmatic probe linking mantle temperature and dynamic topography beneath western North America [ABSTRACT]. *American Geophysical Union, 2016 Fall Meeting, San Francisco, California, 12-16 December*, Abstract T52A-06. [Includes notices of thermochronology in Grand Canyon area, and Colorado Plateau.]

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- 2010 21.6215 Detection of earth impact craters aided by the detailed global gravitational model EGM2008. *Acta Geodynamica et Geomaterialia* (Akademii věd České Republiky, Praha), 7(1): 71-97. [See "Narrow Structures—Grand Canyon", p. 74, Figures 6a, 6b.] [Earth Gravitational Model 2008.]

Knauth, L. Paul

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- 1982 21.1752 Isotopic analyses of upper Proterozoic cherts with possible implications for upper Precambrian climates and the Phanerozoic explosion of life [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 14: 532.
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- 2005 21.4734 Temperature and salinity history of the Precambrian ocean: implications for the course of microbial evolution. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 219: 53-69.

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Knauth, L. Paul, AND Horodyski, Robert J.

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Knight, Cassi

- 2020 21.8034 Chapter 7. Paleozoic paleobotany of Grand Canyon National Park. *In*: Santucci, Vincent L., and Tweet, Justin S. (eds.), *Grand Canyon National Park : centennial paleontological resource inventory (non-sensitive version)*. Fort Collins, Colorado: U.S. National Park Service, Natural Resource Stewardship and Science, pp. 257-275. (Volume: *Natural Resource Report NPS/GRCA/NRR—2020/2103*.)
- 2021 21.8259 Paleozoic paleobotany of Grand Canyon National Park. *In*: Santucci, Vincent L., and Tweet, Justin S. (eds.), *Grand Canyon National Park centennial paleontological resource inventory; a century of fossil discovery and research*. *Utah Geological Association, Special Publication 1*, pp. 119-130, a1, [a2] (pagination is contiguous). [Reset reprinting of Knight (2020, [ITEM NO.](#) 21.8034).]

Knight, Cyril W.

- 1908 21.6627 The Annual Meeting of the Geological Society of America, at Albuquerque, New Mexico. *Canadian Mining Journal*, 29(3) (February 1): 675-679. [See p. 677, remarks on an excursion to Grand Canyon. Full-page photo of Grand Canyon, p. 676 [uncredited postcard view]. See also photos, p. 678, "Having lunch at the bottom of the Grand Canyon of Arizona, showing Colorado River", and "Descending Bright Angel Trail at the Grand Canyon of Arizona. Dr. W. G. Miller, Ontario Provincial Geologist, and Mr. L. H. Kerr, of Toronto, in background." (second photo with date on negative "Jan. 4 08 #4", apparently a Kolb photo.) ["List of Papers" includes (p. 678): "Joseph Hyde Pratt—Asbestos Deposits of the Grand Canyon, Arizona.", "N. H. Darton—Some Features of Geology in Arizona and Western New Mexico along the line of the Santa Fe Railroad. (10 minutes.)", and (p. 679), "Douglas Wilson Johnson—The Faults and Folds of the Grand Canyon District. (By title.)"]

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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

Knight, Jacob E. [Knight, Jake E.]

- 2017 21.7554 Multiple-modeling approach for understanding groundwater flow in the Grand Canyon region: identifying plausible conceptual models, assessing uncertainties, and valuating [sic] additional data [ABSTRACT]. *In: 14th Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region, September 11-14, 2017, High Country Conference Center, Northern Arizona University, Flagstaff, Arizona.* [No imprint], p. 89.
- 2020 21.8022 Simulation of groundwater-level changes from projected groundwater withdrawals in the Truxton Basin, northwestern Arizona. *In: Mason, Jon P. (ed.), Geophysical surveys, hydrogeologic characterization, and groundwater flow model for the Truxton Basin and Hualapai Plateau, northwestern Arizona. U.S. Geological Survey, Scientific Investigations Report 2020-5017-E, 39 pp. + associated data online, Geological Survey data release, <https://doi.org/10.5066/P9O2WGLS> or USGS Water Resources NSDI node <https://water.usgs.gov/GIS/metadata/usgswrd/XML/sir2020-5017E.xml> (MODFLOW-NWT groundwater model used for simulating potential future pumping scenarios and forecasting associated groundwater-level changes in the Truxton aquifer on the Hualapai Reservation and adjacent areas, Mohave County, Arizona). [A Newton-Raphson formulation for the Modular three-dimensional finite-difference ground-water flow model.]*

Knight, Jake E., AND Huntoon, Peter W.

- 2019 21.7868 Conceptual models of groundwater flow in the Grand Canyon region [ABSTRACT]. *In: 15th Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region : theme: "Science and Solutions for Conserving the Southwest's Land, Water, Biodiversity and Cultures" : September 9-12, 2019, High Country Conference Center, Northern Arizona University, Flagstaff, Arizona, pp. 63-64.*
- 2022 21.8388 Conceptual models of groundwater flow in the Grand Canyon region, Arizona. *U.S. Geological Survey, Scientific Investigations Report 2022-5037, 51 pp. + supporting data online: Knight, J. E., 2022, "Soil-water balance (SWB) model archive used to simulate potential mean annual recharge in the Grand Canyon region, Arizona", U.S. Geological Survey, data release, <https://doi.org/10.5066/P9FQ7BSY> (also as <https://www.sciencebase.gov/catalog/item/61def6d4d34ed79294021e51>) [data 1981-2016].*

Knight, Jake E., AND Pool, Don R.

- 2016 21.7198 Simulating influence of geologic structures on regional groundwater flow in northern Arizona [ABSTRACT]. *In: Thriving in a Tough Neighborhood : Fortune Favors the Prepared : 29th Annual Symposium of the Arizona Hydrological Society, Tucson, AZ, September 14-17, 2016.* [Redwall-Muav aquifer, Coconino and Kaibab Plateaus.]

Knoll, Andrew H.

- 1983 21.1755 Biological interactions and Precambrian eukaryotes. *In: Tevesz, Michael J. S., and McCall, Peter L. (eds.), Biotic interactions in Recent and fossil benthic communities.* New York and London: Plenum Press, pp. 251-283. [See pp. 271-273.]
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- 2003 21.4621 *Life on a young planet: The first three billion years of evolution on earth.* Princeton, New Jersey: Princeton University Press, 277 pp. [Grand Canyon, see pp. 46, 150-151, 154, 156, 160, 245.]

≡ REVIEWS AND NOTICES Gastaldo, 2004, ITEM NO. 30.589

Knoll, Andrew H.; Javaux, E. J.; Hewitt, D.; AND Cohen, P.

- 2006 21.4654 Eukaryotic organisms in Proterozoic oceans. *Royal Society of London, Philosophical Transactions, Series B (Biological Sciences)*, 361: 1023-1038. [See pp. 1027, 1029-1031, 1034.]

Knopoff, Leon

- 1965 21.5355 (CHAIRMAN) *United States program for the International Upper Mantle Project : progress report—1965.* [No place]: U.S. Upper Mantle Committee, Geophysics Research Board, U.S. National Academy of Sciences, U.S. National Research Council. [See Part 12, "Regional Investigations" [overview section, pertaining to the Transcontinental Geophysical Survey, including note (p. 117) "that additional surveys will be made [in 1966] in Arizona north of the Grand Canyon".]

Knox, James C.

- 2000 21.3629 Sensitivity of modern and Holocene floods to climate change. *In*: Alverson, Keith D., Oldfield, Frank, and Bradley, Raymond S., Past global changes and their significance for the future. *Quaternary Science Reviews*, 19(1/5): 439-457.

Knudsen, Tyler R.

- 2012 21.8164 Surficial geology of the Fort Pearce and Washington Hollow sections of the Washington fault zone, Washington County, Utah and Mohave County, Arizona. *In*: Lund, William R. (PRINCIPAL INVESTIGATOR), *U.S. Geological Survey External Grant Award Number G11AP20061 : paleoseismic investigation of the northern section of the Washington fault zone, Washington County, Utah, and Mohave County, Arizona.* [No imprint], pp. 16-69.
- 2015 21.8167 Geology of the Fort Pearce and Washington Hollow sections of the Washington fault zone, Washington County, Utah, and Mohave County, Arizona. *In*: Lund, William R. (ed.), *Geologic mapping and paleoseismic investigations of the Washington fault zone, Washington county, Utah, and Mohave County, Arizona. Utah Geological Survey, Miscellaneous Publication 15-6*, pp. 9-42. (Paleoseismology of Utah, Volume 27.)

Knudsen, Tyler R.; Hisock, Adam I.; Lund, William R.; AND Bowman, Steve D.

- 2020 21.8065 Geologic hazards of the Bullfrog and Wahweap high-use areas of Glen Canyon National Recreation Area, San Juan, Kane, and Garfield Counties, Uah, and Coconino County, Arizona. *Utah Geological Survey, Special Study 166*, 66 pp. ("Mapping available at <https://geology.utah.gov/apps/hazards>". "Hazards mapped for this report: collapsible soil susceptibility, piping and erosion susceptibility, expansive soil and rock susceptibility, liquefaction susceptibility, rockfall hazard, surface-fault-rupture hazard special study zone, flood and debris-flow hazard, landslide susceptibility, geologic radon susceptibility, soluble soil and rock susceptibility, corrosive soil and rock

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susceptibility, wind-blow sand susceptibility”).) [Includes Lees Ferry reach of Colorado River below Glen Canyon Dam.]

Ko, Tae Young

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Kobor, Jeremiah S.

2004 21.4043 *Simulating water availability in a spring-fed aquifer with surface water-ground water flow models, Grand Canyon, Arizona.* Master’s thesis, Northern Arizona University, 125 pp.

Kobor, Jeremiah S., AND Springer, Abraham E.

2003 21.4019 Predicting riparian vegetation response to groundwater withdrawals: An interdisciplinary modeling approach to a regional spring system, Grand Canyon, AZ [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 35(6): 374.

Kobor, Jeremiah S.; Springer, Abraham E.; Scott, M. L.; AND Shafroth, P.

2004 21.6575 Hydrologic and ecologic responses to diminished spring discharge; surface-water/groundwater and vegetation modeling, Grand Canyon, Arizona [ABSTRACT]. *Eos* (American Geophysical Union, Transactions), 85(47, Fall Meeting Supplement), Abstract H33D-0497.

Koester, Edward A.

1973 21.5882 Selected Paleozoic stratigraphic sections in Arizona. *Arizona Oil and Gas Conservation Commission, Report of Investigation*, (4), 24 pp. [Bibliographical source reference.]

Kofford, M. E.

1969 21.1756 The Orphan Mine. *In*: Baars, Donald L. (ed.), *Geology and natural history of the Grand Canyon region. Four Corners Geological Society, 5th Field Conference, Guidebook*, pp. 190-194.
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Kohl, Keith

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Kohler, W. M., AND McCarthy, Jill

- 1990 21.1757 PACE seismic refraction and wide-angle reflection studies of the Colorado Plateau-Basin and Range transition, Arizona [ABSTRACT]. *Eos* (American Geophysical Union, Transactions), 71(43): 1593.
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Kok, David A. de

- 2005 21.8142 Appendix G. Major streams, recharge and groundwater resources. *In*: University of Arizona, Office of Economic Development and Water Resources Research Center, *Arizona's water future : challenges and opportunities : Eighty-fifth Arizona Town Hall, October 31-November 3, 2004*. Phoenix: Arizona Town Hall, pp. 191-194.

Kókay, József; Sónoky, Miklós; AND Tóth, Mihály

- 2008 *21.5073* Elmosta-e az özönvíz az evolúciót? Darwinizmus és (neo)kreacionizmus. *In*: Dombi, Péter, *Hiszem vagy tudom? Vitaestek hit és tudomány viszonyáról*. [No place]: Typotex, pp. 70-94. [See p. 72.] [[In Hungarian.](#)]

Koken, Ernst

- 1893 21.1758 *Die Vorwelt und ihre Entwicklungsgeschichte*. Leipzig: T. O. Weigel Nachfolger, 654 [655] pp. [See pp. 29-30.] [[In German.](#)]

Kokkas, Nikos A., AND Miliarisis, George C.

- 2004 21.4048 Geomorphometric mapping of Grand Canyon from the 1-degree USGS DEMs. *International Archives of Photogrammetry*, 35(Part 4): 840-845. (International Society for Photogrammetry and Remote Sensing, 20th Congress, Istanbul, 2004.) [Digital terrain models.] [*NOTE*: Unpaginated offprint seen; another citation gives pp. 406-411.]

Koller, G. R.

- 1980 21.1759 *Grand Canyon 1° × 2° NTMS area, Arizona : data report : National Uranium Resource Evaluation Program : hydrogeochemical and stream sediment reconnaissance*. Aiken, South Carolina: E. I. du Pont de Nemours and Co., Inc., Savannah River Laboratory, 49 pp., map, scale 1:250,000, and 10 microfiche in pocket. (U.S. Department of Energy, Grand Junction Office, report GJBX-142-80, DPST-79-146-19.) [National Topographic Map Series.]
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Königsberger, Joh.

- 1908 21.8294 Geologische Beobachtungen am Pizzo Forno (Schweiz, Kanton Tessin) und Beschreibung der Mineralagerstätten des Tessinermassivs. *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*, Beilage-Band, 26: 488-564. [Grand Canyon, see p. 544.] [[In German.](#)]

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- 1908 21.5175 Einige Folgerungen aus geologischen Beobachtungen in Aare-, Gotthard- und Tessinermassiv. *In*: *Compte-Rendu de la Vingt-Huitième Réunion Annuelle de la Société Géologique Suisse*; les 8 et 9 septembre 1908, à Lausanne. *Eclogae Geologicae Helveticae* (Société Géologique Suisse), 10 (December): 852-896. [Grand Canyon, see pp. 880, 887.] [In German.]

Koons, E. Donaldson [Koons, Edwin Donaldson] [Koons, Donaldson]

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- 1948 21.1762 Geology of the eastern Hualapai Reservation. *Plateau*, 20: 53-60.
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- 1948 21.1763 High-level gravels of western Grand Canyon. *Science*, 107(2784) (May 7): 475-476. [“Robbers Roost Gravel” and “Frazier Well Gravel” proposed.]
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- 1967 21.1766 Eastern Hualapai Plateau area. *In*: McKee, Edwin D., Wilson, Richard F., Breed, William J., and Breed, Carol S. (eds.), *Evolution of the Colorado River in Arizona*; an hypothesis developed at the Symposium on Cenozoic Geology of the Colorado Plateau in Arizona, August 1964. *Museum of Northern Arizona, Bulletin 44*, pp. 9-10.
- 1967 21.1767 Uinkaret Plateau area. *In*: McKee, Edwin D., Wilson, Richard F., Breed, William J., and Breed, Carol S. (eds.), *Evolution of the Colorado River in Arizona*; an hypothesis developed at the Symposium on Cenozoic Geology of the Colorado Plateau in Arizona, August 1964. *Museum of Northern Arizona, Bulletin 44*, pp. 13-14.
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- 1967 21.1769 Early Cenozoic erosion. *In*: McKee, Edwin D., Wilson, Richard F., Breed, William J., and Breed, Carol S. (eds.), *Evolution of the Colorado River in Arizona; an hypothesis developed at the Symposium on Cenozoic Geology of the Colorado Plateau in Arizona, August 1964*. *Museum of Northern Arizona, Bulletin 44*, pp. 32-33.
- 1967 21.1770 Middle Cenozoic erosion. *In*: McKee, Edwin D., Wilson, Richard F., Breed, William J., and Breed, Carol S. (eds.), *Evolution of the Colorado River in Arizona; an hypothesis developed at the Symposium on Cenozoic Geology of the Colorado Plateau in Arizona, August 1964*. *Museum of Northern Arizona, Bulletin 44*, p. 40.

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- 2009 21.4645 Zircon dating and origin analysis of Grand Canyon sediment [ABSTRACT]. *In*: *GeoDaze 2009 program and abstracts : the 37th Annual Geosciences Symposium, April 2-4, 2009, Tucson, Az*. Tucson: Department of Geosciences, University of Arizona, p. 61.

Köppel, Otto

- 1967 21.8550 Der Grand Canyon—ein Bilderbuch der Erdgeschichte. *Schweizerische Lehrerzeitung* (Schweizerischen Lehrervereins, Zürich), 112(11/12) (March 17): 371-374. [*In German, with abstract in French.*]

Körmendy, Regina

- 2016 21.7708 Képes közzetan kezdőknek—Homokkő. *Lelőhely: Ásványgyűjtői Hírlevél* (Hungary), 2016(5): 2-14. [Elementary article on sandstones. Grand Canyon, p. 2.] [*In Hungarian.*]

Kornicker, Louis S., AND Conover, John T.

- 1960 21.6409 Effect of high storm tide levels on beach burial of jellyfish (Scyphozoa) and other organisms. *Internationale Revue Gesamten Hydrobiologie*, 45(2): 203-214. [Introduction and cited work notes fossil jellyfish reported from Grand Canyon by Van Gundy (1951), but erroneously notes as from Cambrian strata. No further discussion.]

Korolev, Viacheslav Sergeevich

- 1997 21.1771 *Sequence stratigraphy, sedimentology, and correlation of the undifferentiated Cambrian dolomites of the Grand Canyon and Lake Mead area*. Master's thesis, University of Nevada, Las Vegas, 178 pp., plate.

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- 1993 21.1773 Age and correlation of the unclassified dolomites of the Grand Canyon [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 25(5): 63-64.
- 1993 21.1774 Correlation of unclassified Cambrian dolomites of the Grand Canyon [ABSTRACT]. *Arizona-Nevada Academy of Science, Journal*, 28 (1993 Proceedings Supplement): 42-43.
- 1998 21.1775 Age, correlation, and sequence stratigraphy of the undifferentiated Cambrian dolomites of the Grand Canyon and Lake Mead regions [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 30(6): 13.

Kotash, Alisa

- 2011 21.5640 Chemical analysis and age of ash in upper Peach Springs Wash, AZ [ABSTRACT]. *In: The Fifth Annual GREAT Day, 4-12-11 : Geneseo Recognizing Excellence, Achievement and Talent*. Geneseo, New York: State University of New York, College at Geneseo, p. 31.

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- 1962 21.1776 Pennsylvanian rocks of southwestern New Mexico and southeastern Arizona. *In: Branson, C. C. (ed.), Pennsylvanian System in the United States : a symposium*. Tulsa, Oklahoma: American Association of Petroleum Geologists, pp. 331-371.
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- 1962 21.1777 Pennsylvanian rocks of the Mogollon Rim area, Arizona. *In: Weber, Robert H., and Peirce, H. Wesley (eds.), Guidebook of the Mogollon Rim region, east-central Arizona. New Mexico Geological Society, 13th Field Conference, Guidebook*, pp. 77-83.
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loop der stroomen ongetwijfeld . . . of den blik wendt naar de diepe insnijdingen, welke sommige stroomen in de hardste rotsen boorden, waarvan de Rio Colorado en andere Noord-Amerikaansche stroomen de krachtigste bewijzen leveren, in hunne honderde meters diepe en mijlen lange „canons“, zooals men die woeste, enge dalen noemt . . .” (ENTIRE NOTE). Also see in list of world rivers, “Colorado” (p. 100).] [*In Dutch.*]

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| 1887 | 21.1839 | <i>A compend of geology.</i> New York: D. Appleton and Co., 399 pp. (Appleton's Science Text-Books.) [See pp. 18-19.] |
| 1896 | 21.8274 | <i>Elements of geology : a text-book for colleges and for the general reader.</i> New York: D. Appleton and Co., 4th ed., revised and enlarged.
≡ <i>REVIEWS AND NOTICES</i> Gilbert, 1896, ITEM NO. 30.857 |
| 1899 | 21.7838 | The Ozarkian and its significance in theoretical geology. <i>Journal of Geology</i> , 7(6) (September/October): 525-544. [See p. 528: "The canyon-cutting [of the "plateau region"] is certainly post-Miocene. The outer canyon (of the Grand Canyon) ten to fifteen miles wide and 3000 feet deep, belongs to the Pliocene; while the inner gorge, 3000 [<i>sic</i>] feet deep but very narrow, belongs to the post-Pliocene, <i>i. e.</i> , to the Ozarkian and the present." Also includes information as first given by Dutton (pp. 528-529).] |

Leake, Stanley A.; Macy, Jamie P.; AND Truini, Margot

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| 2016 | 21.7009 | Hydrologic analyses in support of the Navajo Generating Station-Kayenta Mine Complex Environmental Impact Statement. <i>U.S. Geological Survey, Open-File Report 2016-1088</i> , 23 pp. |
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Leckie, Mark

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| 2011 | 21.7192 | Five college geology field trips. <i>UMASS Amherst Geosciences</i> (University of Massachusetts Amherst, Department of Geosciences), (Summer): 3. [Includes Grand Canyon, <i>in passing</i> .] |
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LeConte, Joseph *see* **Le Conte, Joseph**

⁹⁰ Often also published as "LeConte" or "Leconte" but the author's own usage is "Le Conte".

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- 2016 *21.8091* "그랜드 캐니언이 노아 홍수 때 생기지 않았다는 증거" 에 대한 비판 ["geulaendeu kaenieon-i noa hongsu ttae saeng-giji anh-assdaneun jeung-geo" e daehan bipan] [Criticism of the "evidence that the Grand Canyon did not occur in the Noah's Flood"]. *Creation Truth* (Association for Creation Truth Newsletter) (한국창조과학회 미주지부 [Korean Creation Science Society, Americas Branch], Norwalk, California), 24(10): 1-4. [In Korean, with serial title in English.]
- 2016 *21.8092* 코코니노 사암은 사막에서 형성되었나? [kokonino saam-eun samag-eseo hyeongseongdoeeossna?] [Did the Coconino sandstone form in the desert?]. *Creation Truth* (Association for Creation Truth Newsletter) (한국창조과학회 미주지부 [Korean Creation Science Society, Americas Branch], Norwalk, California), 24(11): 6-8. [In Korean, with serial title in English.]
- 2017 *21.8086* 구불구불한 사행천의의미 [gubulgubulhan sahaengcheon-uuimi] [The meaning of meandering streams]. *Creation Truth* (Association for Creation Truth Newsletter) (한국창조과학회 미주지부 [Korean Creation Science Society, Americas Branch], Norwalk, California), 25(11): 5-6. [About entrenched meanders. Includes note of Horseshoe Bend, Arizona.] [In Korean, with serial title in English.]

Lee, John P.

- 2007 21.5012 *Cenozoic landscape evolution of the Grand Canyon region, Arizona*. Master's thesis, University of Kansas, 110 pp.

Lee, John P.; Stockli, Daniel F.; Ehlers, Todd; Pederson, Joel; AND Kelley, Shari

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- 2011 21.5550 Unroofing and incision of the Grand Canyon region as constrained through low-temperature thermochronology. *In: Beard, L. Sue, Karlstrom, Karl E., Young, Richard A., and Billingsley, George H. (eds.), CREvolution 2—Origin and Evolution of the Colorado River System, workshop abstracts; May 24-26, 2010, U.S. Geological Survey, Flagstaff, Arizona. U.S. Geological Survey, Open-File Report 2011-1210*, pp. 175-179.

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- 2013 21.5950 New thermochronometric constraints on the Tertiary landscape evolution of the central and eastern Grand Canyon, Arizona. *Geosphere*, 9(1): 216-228 + Supplemental Files 1-3 (accessible online at <http://geosphere.gsapubs.org/content/9/2/216/suppl/DC1>), [5], [7], [2] pp.

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Lee, Taesam; Jeong, Changsam; AND Park, Taewoong

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- 1958 21.1849 Geology of the Clarkdale quadrangle, Arizona. *U.S. Geological Survey, Bulletin 1021-N*, pp. 511-592.
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- 1962 21.1850 Cenozoic history of the Jerome region, Yavapai County, Arizona. *In: Weber, Robert H., and Peirce, H. Wesley (eds.), Guidebook of the Mogollon Rim region, east-central Arizona. New Mexico Geological Society, 13th Field Conference, Guidebook*, pp. 94-97.
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Leighty, Robert S.

- 1998 21.3631 Tertiary volcanism, sedimentation, and extensional tectonism across the Basin and Range-Colorado Plateau boundary in central Arizona. *In*: Duebendorfer, Ernest M. (ed.), *Geologic excursions in northern and central Arizona : field trip guidebook for Geological Society of America Rocky Mountain Section meeting, Northern Arizona University, Flagstaff, Arizona, May 1998*. Flagstaff, Arizona: Northern Arizona University, Department of Geology, pp. 59-95.
- 2021 21.8424 Grand Canyon stratigraphy. *Arizona Geological Survey, Contributed Report CR-21-D*, 1 plate. [Released digitally for high-density printing as a poster.]

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Quadrangle.’ *Geologic Atlas of the United States*, Folio No. 112, 1904.”; specifically: “[The Pinal schists] are probably to be correlated with the Vishnu series of the Grand Canyon, provisionally called Algonkian by Walcott. In the absence of other criteria the Pinal schists are referred to the pre-Cambrian.” (ENTIRE NOTE)]

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Leonard, John W.

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Lera, Thomas, AND Lewis, Warren

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Lesko, Lawrence M.

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- 1911 21.8303 *Submerged Atlantis restored : or rin-gä'-sě nūd sī-ī-kěł'zē (links and cycles)*. Rochester, New York: Austin Publishing Co., 806 pp. [See in chapter, "Shin'der-shan Nud U-ish'te-cos or Hindustan, India and Deserts. Teltzie XLVIII" (pp. 624-644); specifically, pp. 643-644, remarks on the origins of the Grand Canyon and Colorado River, particularly that "the great walls of the Gorge that now exist . . . held the waters of the northern portion of the great Sharuntrezon Cet, or those north of the now known Colorado River, from receding [*sic*] southward", and "the waters south of the now established Colorado River, were drained off by subterranean sinks and fluvial conditions into the now known Gulf of California." [Alternative science.]

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Lesser, Samantha; Santucci, Vincent L.; AND Jorstad, Thomas

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- 2013 21.6195 A Smithsonian Institution and National Park Service collaboration to manage paleontological resources [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 45(7): 429.

Levander, A.; Schmandt, B.; Miller, M. S.; Liu, K.; Karlstrom, K. E.; Crow, R. S.; Lee, C.-T. A.; AND Humphreys, E. D.

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- 1985 21.1865 Plant communities resist climatic change. *Science*, 228: 165-166. [Summarizing the paleoenvironmental work of Kenneth Cole.]
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- 1986 21.1866 Mountain goat horn: A clue to extinction? *Science*, 232: 450.
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Ley, Willy

- 1953 21.8595 For Your Information [COLUMN]. *Galaxy Science Fiction (New York)*, 7(2) (November): 35-43. [See the "Any Questions?" section, which includes (pp. 41-42) the inquiry from Rita Eleftheriades of New York City, "What are the oldest known fossils and how old are they?", with Ley's reply that includes the comments, "From the Proterozoic Era, a few doubtful fossils are known, one from Australia (*Protaledadia*) and one from the Grand Canyon (*Beltina danae*), both believed to be early arthropods." and "Spicules of sponges from the Proterozoic of Grand Canyon are less doubtful than the supposed arthropods . . ." (no further details pertaining to the Grand Canyon occurrences).]
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Li, Chao; Peng, Ping'an; Sheng, Guoying; AND Fu, Jiamo

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- 2021 21.8261 Paleozoic vertebrate ichnology of Grand Canyon National Park. *In*: Santucci, Vincent L., and Tweet, Justin S. (eds.), *Grand Canyon National Park centennial paleontological resource inventory; a century of fossil discovery and research. Utah Geological Association, Special Publication 1*, pp. 171-204. [Reset reprinting of Marchetti *et al.* (2020, *ITEM NO.* 21.8036).]

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(Palaeontological Association), 2020: 1-23, doi:10.1002/sp2.1342. [Ichonospecies *Pachypes olliery* (Ellenberger), new combination; includes material from "Hermit Formation, Hermit Basin, Cisuralian, Arizona, USA: GRCA 3172, trackway with three consecutive pes-manus couples, concave epirelief. GRCA 3173, counterpart of GRCA 3172, incomplete step cycle with two consecutive pes-manus couples, convex hyporelief." (p. 7) See also pp. 9 (with figures 5A-E, p. 11), 17, 18.]

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 ≡ REVIEWS AND NOTICES Dana, 1858, ITEM NO. 30.905
- 1866 21.5002 La faune primordiale dans le pays de Galles et la géologie californienne. *Société Géologique de France, Bulletin, Series 2, 23: 552-559.* [See p. 556.] [In French.]
- 1875 21.5004 *Explication d'une seconde édition de la Carte Géologique de la Terre.* Zurich: J. Wurster et Cie; London: Edward Stanford; Paris: F. Savy; and Milan, Naples, Pise: Ulrico Hoepli, 222 [223] pp. [See pp. 147-152, and "Errata" (p. [223]).] [In French.]
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- 1883 21.4305 Sur la monographie du Grand Cañon du Colorado, par le Capitaine Dutton. *Société Géologique de France, Bulletin, Series 3, 11: 529-539.* [A summary of Dutton (1882, ITEM NO. 21.918).] [In French.]
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 ≡ REVIEWS AND NOTICES "S., R. A.", 1885, ITEM NO. 30.935; Schneider, 1884, ITEM NO. 30.239
- 1885 21.2042 Amérique du Nord (États-Unis et Canada); aperçu de la structure géologique. *In: Dagincourt (Dr.), Annuaire géologique universel et guide du géologue autour de la terre : dans les musées, les principales collections et les gisements de fossiles et de minéraux*. Paris: Comptoir Géologique de Paris, pp. 20-31. [See "Povell. [*sic*, Powell] Annual Reports (2 et 3) of the U. S. Geological Survey. Washington, 2 vol. in-4°, 1882-83.", pp. 28-31, including, briefly, C. E. Dutton's "Histoire du grand Cañon de Colorado", pp. 28-29. This refers to Dutton (1882, ITEM NO. 21.917).] [In French.]
- 1887 21.2043 *Compte-rendu de publications relatives a la geologie l'Asie & l'Amérique*. Paris: Comptoir Géologique du D^r Dagincourt. (Extraite de l'Annuaire Géologique, Tome III, 1887, pp. 597-777.) [See pp. 666-667, 740-742.] [In French.]
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- 1888 21.3877 Progrès de la géologie. *In: [2e] Congrès Bibliographique International tenu à Paris du 3 au 7 Avril 1888 sous les auspices de la Société Bibliographique. Compte rendu des travaux*. [Article seen as an offprint, Paris: Au Siège de la Société Bibliographique, 42 pp.] [In French.]
- 1888 21.5293 Notes et renvois. *In: Margerie, Emm. de, and Heim, Albert, Les dislocations de l'écorce terrestre. Die dislocationen der Erdrinde. Essai de définition et de nomenclature. Versuch einer Definition und Bezeichnung. Texte en français et en allemand, synonymie en français, allemand et anglais. Text deutsch und französisch, Synonymie deutsch, französisch u. englisch*. Zürich: J. Wurster und Comp., pp. 95-124. [See pp. 95, 96, 100, 104-105, which are nomenclatural notes that refer to text pages, but references to Grand Canyon region appear only in Margerie's *Notes et Renvois* (in French).] [In French.]
- 1888 21.5294 Appendice. *In: Margerie, Emm. de, and Heim, Albert, Les dislocations de l'écorce terrestre. Die dislocationen der Erdrinde. Essai de définition et de nomenclature. Versuch einer Definition und Bezeichnung. Texte en français et en allemand, synonymie en français, allemand et anglais. Text deutsch und französisch, Synonymie deutsch, französisch u. englisch*. Zürich: J. Wurster und Comp., pp. 125-132. [See p. 126.] [In French, German, and English.]
- 1891 21.6480 Rapport sur le Congrès Géologique de Washington. *Société de Géographie, Bulletin* (Paris), Series 7, 12(4): 506-537. [5th International Geological Congress. See "L'excursion aux Montagnes Rocheuses", pp. 528-532; specifically, p. 531, visit to Grand Canyon.] [In French.]
- 1904 21.5591 Davis (W. M.). A) The Stream Contest along the Blue Ridge. (*B. G. S. Philadelphia*, vol. III, n° 5, April, 1903, p. 213-244, 4 pl. phot.). B) An Excursion to the Plateau Province of Utah and Arizona. (*B. Museum Comparative Zoöl. Harvard College, XLII (Geol. Ser., VI), n° 1, June, 1903, p. 1-49, 14 fig., 7 pl. phot.*). C) The Mountain Ranges of the Great Basin. (*Ibid., XLII (Geol. Ser., VI), n° 3, September, 1903, p.*

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- 129-177, 18 fig., 7 pl. phot.). *In*: XIII^e Bibliographie Géographique Annuelle, 1903. *Annales de Géographie* (Paris), 13 (September 15): 270-271. [In French.]
- 1909 21.8295 [Lecture.] *From*: Cordier, Henri, Séance du Samedi 5 Juin 1909. *In*: Bulletin du Comité des Travaux Historiques et Scientifiques. Section de Géographie Historique et Descriptive. *Bulletin de Géographie Historique et Descriptive* ([France] Ministère de l'Instruction Publique et des Beaux-Arts, Comité des Travaux Historiques et Scientifiques, Paris), 1909(3): 307-313. [With Cordier's introductory note: "M. Emm. de Margerie lit un important rapport sur les *Cahiers du Service géographique de l'Armée*, n^o 29. *Matériaux d'étude topologique pour l'Algérie et la Tunisie* (septième série. In-8^o. Paris, Imprimerie du Service géographique de l'Armée, 1908." The remainder of this item quotes Margerie's lecture, which was based on the 1908 publication by Margerie. See p. 312, which comments, *in passing*, on the topographical work of François E. Matthes at Grand Canyon. (Note, however, that the comment pertaining to the Grand Canyon work does not appear in the cited 1908 publication. —E.E.S.)] [In French.]
- 1915 21.5108 The debt of geographical science to American explorers. *In*: *Memorial volume of the Transcontinental Excursion of 1912 of the American Geographical Society of New York*. New York: American Geographical Society, pp. 105-113. [Erratum (from p. 407): p. 109, line 9 from top, *for* Abbott *read* Abbot.]
- 1917 21.4397 Commentaire de quelques cartes récentes publiées par le Service Géologique des États-Unis. [France.] *Comité des Travaux Historiques et Scientifiques, Section de Géographie, Bulletin*, 32: 265-300. [Apparently also as offprints, Paris: Imprimerie Nationale, 1917, 1919. Margerie's own citation of this item adds: "voir aussi *Ibid.* [Comité des Travaux Historiques et Scientifiques, *Section de Géographie, Bulletin*, Année 1915, p. LII-LIII; séance du 6 Novembre" (Margerie, 1943, *Critique et géologie*, tome I, p. 28).] [Includes substantial discussion of "Geologic Map and Sections of the Shinumo Quadrangle, Arizona", plate 1 of Levi F. Noble's "The Shinumo Quadrangle, Grand Canyon District, Arizona" (*U.S. Geological Survey, Bulletin 549*, 1914, *ITEM NO.* 21.2489).] [Also reprinted by Margerie (1946, *ITEM NO.* 21.4398).] [In French.]
- 1919 21.4399 [Presentation on] Commentaire de quelques cartes récentes publiées par le Service Géologique des États-Unis, 1915. *In*: *Compte rendu sommaire des séances de la Société Géologique de France*, No 6; Séance du 17 mars 1919. *Société Géologique de France, Bulletin*, Series 4, 19: 49-50. [In French.]
- 1938 21.4858 *Notice sur les travaux scientifiques de M. Emm. de Margerie*. Macon: Protat Frères, 216 pp. [See pp. 11, 127 and following.] [In French.]
- 1946 21.4398 *Critique et géologie : contribution a l'histoire des sciences de la terre (1882-1942). Tome II*. Paris: Librairie Armand Colin, pp. xxiii-xxxix, 661-1156b. [See "VII. *Geologic Map and Sections of the Shinumo Quadrangle, Arizona*, by Levi F. Noble." in "Commentaire de Quelques Cartes Récentes Publiées par le Service Géologique des États-Unis (1917)", pp. 1098-1109. (Reprint of Margerie, 1917, *ITEM NO.* 21.4397).] [In French.]
- 1952 21.2044 *Études Américaines. Tome I, Géologie et géographie*. Paris: Librairie Armand Colin, pp. 1-294. [See "Terraine Cambrien", pp. 193-198; and see pp. 238-239.] [In French.]

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1982 21.2046 *Early life.* Boston: Science Books International, Inc., 160 pp. [See p. 30.]
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Marie, James R.; Vanter, Ellen K. van de; AND Moss, Carolyn L.

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Marinelli, G.; Agostini, G. G.; Durazzo, P.; Mercalli, G.; Millosevich, E.; Roberto, G.; AND Stoppani, A.

NO DATE 21.6611 *La terra : trattato popolare di geografia universale, per G. Marinelli, ed altri scienziati Italiani : opera dedicata alla Società Geografica Italiana. Volume I. Geografia matematica e fisica.* Milano, Napoli, Bologna, Firenze, Roma, and Torino: Dottor Francesco Vallardi, xvi, 922, liii pp., 30 plates. [Ca. 1885.] [See in section, "Antagonismo tra le forze esterne ed interne"; specifically, p. 588: "Questi sono solcati da valli profonde (Fig. 399), divese da altipiani o da creste, le quali non sono che i residui d'una massa continentale una volta tutta unita e compatta." The figure, "Erosione sulle sponde del Rio Colorado (America)" reproduces (without credit) a colonnaded illustration of a tributary in the Grand Canyon region, from the J. C. Ives report of 1861. No specific reference to the Grand Canyon.] [In Italian.]

Marintsch, Edward

2022 21.8402 Virtual geology field trips: Brining the story of rock outcrops to today's classroom [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 54(5): abstract 239-1, <https://doi.org/10.1130/abs/2022AM-376562>.

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Márquez Zavalía, María Florencia, AND Pedregosa, José Carmelo

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- 1900 21.5196 *The scientific study of scenery*. London: Methuen and Co., 368 pp. + advertisements. [See pp. 133, 244, 247.]

Marsaglia, Kathleen M., AND Klein, George DeVries

- 1983 21.2048 The paleogeography of Paleozoic and Mesozoic storm depositional systems. *Journal of Geology*, 91: 117-142.
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- 2020 21.8037 Chapter 10. Mesozoic paleontology of Grand Canyon National Park: Trace fossils, stratigraphy, and regional correlations. *In*: Santucci, Vincent L., and Tweet, Justin S. (eds.), *Grand Canyon National Park : centennial paleontological resource inventory (non-sensitive version)*. Fort Collins, Colorado: U.S. National Park Service, Natural Resource Stewardship and Science, pp. 381-401. (Volume: *Natural Resource Report NPS/GRCA/NRR—2020/2103*.) [Field work at Cedar Mountain.]
- 2021 21.8262 Mesozoic paleontology of Grand Canyon National Park—trace fossils, stratigraphy, and regional correlations. *In*: Santucci, Vincent L., and Tweet, Justin S. (eds.), *Grand Canyon National Park centennial paleontological resource inventory; a century of fossil discovery and research*. *Utah Geological Association, Special Publication 1*, pp. 205-219. [Reset reprinting of Marsh *et al.* (2020, *ITEM NO.* 21.8037).] [Field work at Cedar Mountain.]

Marsh, Diana

- 2000 21.3905 *The status of water quality in Arizona : Clean Water Act Section 305(b) Report 2000*. Phoenix: Arizona Department of Environmental Quality, EQR-00-03.

Marshall, Anita, AND Thatcher, Sean

- 2020 21.8010 Creating spaces for geoscientists with disabilities to thrive. *Eos* (American Geophysical Union), 101(2) (February): 13-15. [See p. 13, photo, "Participants in an accessible geology field trip with the International Association for Geoscience Diversity in 2016 look over the South Rim of the Grand Canyon in Arizona."]

Marshall, E. W.; Barnes, J.; AND Lassiter, J. C.

- 2013 21.6523 Stable isotopic (O, H) evidence for hydration of the central Colorado Plateau lithospheric mantle by slab-derived fluids [ABSTRACT]. *American Geophysical Union, 2013 Fall Meeting, San Francisco, California, 9-13 December*, Abstract V13C-2625. [Includes Grand Canyon Volcanic Field.]

Marshall, Madeline S., AND Warme, John

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Marshall, R. B.

- 1911 21.2049 (CHIEF GEOGRAPHER) Results of spirit leveling in Arizona, 1899 to 1909, inclusive. *U.S. Geological Survey, Bulletin 463*, 94 pp. [See pp. 76-84.]
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- 1915 21.2050 (CHIEF GEOGRAPHER) Results of spirit leveling in Arizona, 1899 to 1915, inclusive. *U.S. Geological Survey, Bulletin 573*, 123 pp. [See pp. 85-86, 89-95.]
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Marshall, William B.

- 1929 21.2051 Three new land shells of the genus *Oreohelix* from Arizona. *U.S. National Museum, Proceedings*, 76 (article 5) (2802), 3 pp., 1 plate. [See pp. 1-2; plate 1, figures 1-3, 11.]
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- 1906 21.6691 L'eau; étude hydrologique. *In*: Launay, L. de, Martel, E.-A., Bonjean, Ed., and Ogier, J., *Le sol et l'eau*. Paris: Librairie J.-B. Baillièrre et Fils, pp. 87-200. (Volume: *Traité d'Hygiène, II*; P. Brouardel and E. Mosny, eds.) [See p. 155, reference to Grand Canyon and to flood on Kanab Creek in 1871.] [In French.]

Martín, Arturo; Gonzalez Escobar, Mario; AND Weber, Bodo

- 2024 11.19485 Transtensional basins in the northern Gulf of California: Structure, sedimentation and volcanism [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 56(5), abstract 72-1 (<https://doi.org/10.1130/abs/2024AM-401018>). [Notes that "mudstone samples from exploratory wells at depths of 4 to 5 km and from outcrops around the margins indicate that a sediment source from the Colorado River reached the Tiburon basin in the Pliocene."]

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Martin, Daryl Lynn

- 1985 21.2052 *Depositional systems and ichnology of the Bright Angel Shale (Cambrian), eastern Grand Canyon, Arizona.* Master's thesis, Northern Arizona University, 365 pp.
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- 1984 21.2053 A regressive sequence and associated ichnofaunal assemblage, Bright Angel Shale (Cambrian), Grand Canyon, Arizona [ABSTRACT]. *Arizona-Nevada Academy of Science, Journal*, 19 (1984 Proceedings Supplement): 55-56.
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Martin, Daryl L.; Middleton, Larry T.; AND Elliott, David K.

- 1986 21.2054 Depositional systems of the Middle Cambrian Bright Angel Shale, Grand Canyon, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 18(5): 394.
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Martin, Harriet

- 1992 21.2055 *Conodont biostratigraphy and paleoenvironment of the Surprise Canyon Formation (Late Mississippian), Grand Canyon, Arizona.* Master's thesis, Northern Arizona University, 298 pp.

Martin, Harriet, AND Barrick, James E.

- 1999 21.2056 Chapter F. Conodont biostratigraphy of the Surprise Canyon Formation. *In:* Billingsley, George H., and Beus, Stanley S. (eds.), *Geology of the Surprise Canyon Formation of the Grand Canyon, Arizona. Museum of Northern Arizona, Bulletin 61*, pp. 97-115. [References combined for volume, pp. 245-250.]

Martin, Harriet, AND Beus, Stanley S.

- 1989 21.2057 Conodont biostratigraphy of the Surprise Canyon Formation (Late Mississippian) in western Grand Canyon, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 21(5): 111.
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Martin, Jeff M., AND Mead, Jim I.

- 2014 21.6379 Re-evaluation of *Bison* remains from the greater Grand Canyon region and Colorado Plateau: Native or non-native [ABSTRACT]. *In*: 10th North American Paleontological Convention, Florida Museum of Natural History, Hilton University of Florida Conference Center, 1714 SW 34th Street, Gainesville, Florida, February 15th-18th, 2014; Abstract Book. *Paleontological Society, Special Publication 13*, p. 59.

Martin, Jeff M.; Martin, Rachel A.; AND Mead, Jim I.

- 2017 21.7223 Late Pleistocene and Holocene *Bison* of the Colorado Plateau. *Southwestern Naturalist*, 62(1) (March): 14-28.

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⁹¹ *NOTE regarding Ancient Landscapes of the Grand Canyon Region (McKee, 1931-1985): Editions and variants of this title are cited separately herein.* Many later so-called “editions” are reprintings, others are revisions; some are cover variants (maintaining title and subtitle variation from title-page); some have different printer’s credits in later years. Title-page credit for illustrators varies between editions. *Bibliographical information about variants, with special reference to points, appears in [Appendix IV to this bibliography](#).* The last edition seen for the present bibliography is the 30th (1985), though a 2020 rough reprint from India is also cited herein. This booklet holds the third-longest record for a Grand Canyon-Colorado River title *continuously in print*, at least 54 years, 1931-1985. (See also note by Patraw, 1931, *ITEM NO.* 21.7211.)

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- 1997 21.2452 Time-transgressive and extension-related basaltic volcanism in southwest Utah and vicinity. *Geological Society of America, Bulletin*, 109(10): 1249-1265.

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- 1920 21.4304 *M. Neumayr, Erdgeschichte : Dritte Auflage* (Franz Eduard Suess, ed.); *Erster Band, Dynamische Geologie.* Leipzig and Wien: Bibliographisches Institut, 543 pp. [See pp. 135-136, 262-263, 402; Tafel 14.] [In German.]

Newberry, John Strong

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 ≡ CROSS-LISTINGS (FOR VOLUME) [CITED» GCNHA Monograph 2: page 66] [CITED» GCNHA Monograph 8: page 3-60] FARQUHAR 23 FQ15:343 FQ16:131A, 131B FQ17:271 FQ24/1:483 FQ25:47, 48 FQ30:185 FQ31:37A, 37B FQ32:158A, 158B GUIDON 431 HOWES M719 STORM 2647 THOMAS 161
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- 1982 *21.5765* *Creation and evolution: Myth or reality?* New York: Columbia University Press, 199 pp.
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- 2004 21.7678 [Reminiscence.] *In*: *GSA GeoTales I : memories from GSA members : Volume 1*. Boulder, Colorado: Geological Society of America Foundation, p. 67. ["A Memorable Early Geologic Experience—Driving west in 1928, as a student, with R.C. Moore, in a converted open farm truck to Monument Valley, the Grand Canyon, and other geologic sites." (ENTIRE ITEM) The truck is illustrated.]

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- 1962 21.2461 A new bivalve from the Permian of the western United States. *American Museum Novitates*, (2121), 4 pp. [*Scaphellina bradyi*, new species (Scaphellinidae, new family); from the Gamma member, Kaibab Limestone, south of Flagstaff, Arizona.]
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next leaf, p. [III], "Report of J. W. Powell". Powell's report follows on pp. [i]-xi, 1-214 (with [i] being letter of transmittal from Joseph Henry). Chapter 10 (pp. 133-145) is "Report on a trip to the mouth of the Dirty Devil River", by A. H. Thompson, which is extralimital to the region covered by this bibliography. "Part Third", Zoology (pp. 215-285), by Elliott Coues, contains two papers related only partly to the Colorado River region, and a third paper communicated to Coues by G. Brown Goode, "Notes on the 'Salamander' of Florida (*Geomys tuza*)".] [*NOTE*: The map is extralimital to the area covered by this bibliography.] [Poore (citation follows), p. 1021, gives a publication date of June 16, 1874, which likely is the date ordered to be printed. (Poore, Benjamin Perley, *A Descriptive Catalogue of the Government Publications of the United States, September 5, 1774-March 4, 1881* (Washington, D.C.: U.S. Government Printing Office, 1885. U.S. 48th Congress, 2nd Session, Senate Miscellaneous Document 67.)] [See Powell, John Wesley, in Part 2 of this bibliography for reprintings of this work and popular publications that will in some measure discuss the geology of the canyon country.]

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- 1969 21.2672 Scientific achievements of the four great western surveys, 1867-1879 [ABSTRACT]. *Geological Society of America, Abstracts for 1969*, (5): 67.
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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

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Rai, Rhythm

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- 1897 21.5126 *Philosophy of phenomena.* Boston: Banner of Light Publishing Co., 208 pp. [See Chapter 33, "Philosophy of Cañons: When and How Formed", pp. 165-171; Grand Canyon noted, *in passing*, p. 165.]
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Ramsey, Michael S.

- 1995 21.4527 "A conflict of water and fire": Remote sensing imagery of the Uinkaret volcanic field, Grand Canyon, Arizona. *In:* Realmuto, V. J. (ed.), *Summary of the Fifth Annual Airborne Geosciences Workshop (TIMS), Pasadena, California, Volume 2*, pp. 19-23. (Volume: *Jet Propulsion Laboratory, Publication 95-1.*)
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Randolph, Charles C.

- 1901 21.5601 Arizona. *In:* [U.S. Bureau of the Mint], *Report of the Director of the Mint upon the production of the precious metals in the United States during the calendar year 1900.* Washington, D.C.: U.S. Government Printing Office, pp. 71-80. [See p. 78: ". . . large deposits [of copper] are being opened in the region of the Grand Canyon of the Colorado." (ENTIRE NOTE)]
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- 1998 21.2681 Geomorphic evidence for the evolution of the Colorado River in the Little Colorado-Marble Canyon area, Grand Canyon, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 30(6): 34.
- 1998 21.3642 Geologic road log for U.S. Highway 89A through Oak Creek Canyon and Arizona State Highway 179 through Sedona's Red Rocks. *In*: Duebendorfer, Ernest M. (ed.), *Geologic excursions in northern and central Arizona : field trip guidebook for Geological Society of America Rocky Mountain Section meeting, Northern Arizona University, Flagstaff, Arizona, May 1998.* Flagstaff, Arizona: Northern Arizona University, Department of Geology, pp. 177-190.
- 2000 21.3643 Geomorphic and structural evidence for the placement and evolution of the Colorado River in Grand Canyon, Arizona [ABSTRACT]. *In*: Young, Richard A. (coordinator, preparer), *Abstracts for a working conference on the Cenozoic geologic evolution of the Colorado River system and the erosional chronology of the Grand Canyon region : June 7-9, 2000, Grand Canyon National Park, Arizona.* [Geneseo, New York: State University of New York at Geneseo], pp. 68-70. [Young's note: "Many of the abstracts contained in this volume are preliminary, *unreviewed* working documents and should not be cited as formal references in other research papers."]]
- 2000 21.3644 Recognizing relationships of multiple stream capture points on the Colorado River and its tributaries in Arizona [ABSTRACT]. *In*: Young, Richard A. (coordinator, preparer), *Abstracts for a working conference on the Cenozoic geologic evolution of the Colorado River system and the erosional chronology of the Grand Canyon region : June 7-9, 2000, Grand Canyon National Park, Arizona.* [Geneseo, New York: State University of New York at Geneseo], pp. 71-73. [Young's note: "Many of the abstracts contained in this volume are preliminary, *unreviewed* working documents and should not be cited as formal references in other research papers."]]
- 2005 21.4076 *Carving Grand Canyon : evidence, theories, and mystery.* Grand Canyon, Arizona: Grand Canyon Association, 160 pp.
 ≡ CROSS-LISTINGS [FQ22B:90](#) [FQ23:285](#) [FQ24/2:708](#) [FQ27:132](#) [FQ29:133](#)
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- 2006 21.4170 Carving Grand Canyon. *Grand Canyon River Runner*, (3) (Fall): 12-13.
- 2007 21.4182 Getting to know Eddie McKee: Grand Canyon's first resident geologist. *Nature Notes* (Grand Canyon National Park), 22(1) (Spring): 3-4. [See also correction in Ranney (2007), *Canyon Views*, 13(2): 26 ([ITEM NO. 21.4203](#)).]
- 2007 21.4185 Telling stories about the origin of Grand Canyon. *Boatman's Quarterly Review*, 20(1) (Spring 2006-2007) [*sic*]: 39-41.
- 2007 21.4203 Who was Grand Canyon's first resident geologist? *Canyon Views* (Grand Canyon Association), 13(2) (Summer): 12. [Glen Sturdevant.] [A correction to Ranney (2007), *Nature Notes*, 22(1): 3-4 ([ITEM NO. 21.4182](#)).]
- 2007 21.4361 Color in the Grand Canyon. *Grand Canyon River Runner*, (5) (Fall): 6.

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- 2009 21.4707 Ancient landscapes of the Colorado Plateau. *Grand Canyon River Runner*, (9) (Fall): 4-5.
- 2010 21.5298 The origins of the Colorado River and Grand Canyon. *Canyon Views* (Grand Canyon Association), 16(3) (Fall): 3-4.
- 2010 21.5398 CR_Evolution_2 Workshop; May 25 to 27, 2010; Flagstaff, Arizona. *Northern California Geological Society*, (June 30): 4-12. [From Ranney's online blog, "Earthly Musings". With introduction by newsletter editor, Mark Detterman, pp. 3-4.]
- 2011 21.5710 An older Grand Canyon? Is it possible? *Grand Canyon River Runner*, (12) (Spring): 6-7.
- 2012 21.6424 How old is the Grand Canyon? *The Piedmont Prospector* (Greenboro Gem and Mineral Club, Greensboro, North Carolina), 53(1) (January 2): 5-6.
- 2012 21.5834 *Carving Grand Canyon : evidence, theories, and mystery*. Grand Canyon, Arizona: Grand Canyon Association, 2nd ed., 190 pp.
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- 2013 21.6247 Geologists through time in the Grand Canyon: From Newberry to a new century. *In*: Quartaroli, Richard D. (compiler, ed.), *A rendezvous of Grand Canyon historians : ideas, arguments, and first-person accounts : proceedings of the Third Grand Canyon History Symposium, January 2012*. Flagstaff, Arizona: Grand Canyon Historical Society, pp. 113-118.
- 2013 21.6878 A short history of ideas on the origin of the Grand Canyon. *In*: Zeigler, Kate, Timmons, J. Michael, Timmons, Stacy, and Semken, Steve, *Geology of Route 66 region: Flagstaff to Grants*. Socorro, New Mexico: New Mexico Geological Society, pp. 167-174. (New Mexico Geological Society, 64th Annual Field Conference Guidebook.)
- 2013 21.7806 Geology of Grand Canyon National Park: Sedimentation and erosion on planet Earth's grandest landform. *In*: US National Parks: origins in the management of natural resources [ISSUE THEME]. *Dynamiques Environnementales* (Université Bordeaux-Montaigne), (31): 12-31. [In English, with abstract also in French.]
- 2014 21.6432 A pre-21st century history of ideas on the origin of the Grand Canyon. *Geosphere*, 10(2) (April): 233-242.
- 2014 21.6597 A crack that leads to the river. *Grand Canyon River Runner*, (17) (Summer): 4-6. [Bright Angel Fault.]
- 2014 21.6624 When the Grand Canyon came to Flagstaff: A festival founder searches for answers. *A grand adventure! The 10 best days of the year! Flagstaff Festival of Science, 25th anniversary, 2014*. Flagstaff, Arizona: Flagstaff Festival of Science (supplement to the *Arizona Daily Sun*), p. 10.
- 2016 *21.7057* Earth-based education in the cathedral of time: Strategies learned while working as a geologic interpreter in the Grand Canyon [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 48(7): Paper 285-5, doi:10.1130/abs/2016AM-279124.

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- 2016 21.7162 Revisiting the great Crystal Creek flood—fifty years later. *Boatman's Quarterly Review*, 29(4) (Winter 2016-2017): 24-27. [Includes Bright Angel Creek.]
- 2017 21.7234 The geography and geology of US Route 89. *In*: US Route 89 Appreciation Society, *US Route 89 : America's most scenic highway : road trip map book*. Oracle, Arizona: US Route 89 Appreciation Society, 2017 Website Links Edition, pp. 6-7.
- 2017 21.7235 Introduction to the Colorado Plateau. *In*: US Route 89 Appreciation Society, *US Route 89 : America's most scenic highway : road trip map book*. Oracle, Arizona: US Route 89 Appreciation Society, 2017 Website Links Edition, p. 15.
- 2018 21.7993 Natural history. *In*: Dykinga, Jack, Bowden, Charles, and Ranney, Wayne, *Grand Canyon : a photographer's favorite viewpoints*. Phoenix: Arizona Highways, pp. 88, 90, 92-94, 97, 99-100, 102-103.
- 2019 21.7774 Engaging the public in geology and geoscience: Techniques learned using the history of ideas on the origin of Grand Canyon [ABSTRACT]. *In*: Karlstrom, Karl E., Crossey, Laura J., Semken, Steven, Stoeberl, Todd, and Calhoun, Jeanne (convenors), *Grand Canyon Geology and Geoscience Education Public Symposium, April 18-20, 2019 : in honor of Grand Canyon National Park's 2019 centennial celebration, Earth Day 2019, and the 150th anniversary of John Wesley Powell's 1869 pioneering Colorado River expedition*. [No imprint], pp. 30-31.
- 2019 21.7914 A lifetime of geologic education in earths [*sic*] grandest canyon [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 51(5): Paper No. 75-11 (<https://gsa.confex.com/gsa/2019AM/meetingapp.cgi/Paper/340640>).
- 2020 21.8206 Geology for the proletariat; the writing of *Carving Grand Canyon* and *Ancient Landscapes of the Colorado Plateau*. *In*: Quartaroli, Richard D. (compiler, ed.), *Celebrating 100 years of Grand Canyon National Park, February 2019 : a gathering of Grand Canyon historians : ideas, arguments, and first-person accounts*. Grand Canyon, Arizona: Grand Canyon Association [and Grand Canyon Historical Society], pp. 57-61. [Refers respectively to Ranney (2005, *ITEM NO.* 21.4076; 2012, *ITEM NO.* 21.5834) and to Blakey and Ranney (2008, *ITEM NO.* 21.4365).]
- 2022 21.8393 Going with the flow; the strange and twisted path of the Colorado River through time. *In*: *Proceedings of the Colorado River Basin History Symposium, 2021, hosted by The Grand Canyon Historical Society*. Grand Canyon, Arizona: Grand Canyon Historical Society, pp. 37-41.
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- 2008 21.4804 Tracking Arizona's ancient landscapes. *Arizona Geology*, 38(3) (Fall/Winter): 1-3.

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Ranney, Wayne, AND Mackay, Walker

- 2016 21.7161 Losing a rock icon—The Saddle Canyon floods of August 1 and September 1, 2016. *Boatman's Quarterly Review*, 29(4) (Winter 2016-2017): 7-9. [Loss of the chockstone below the waterfall.]

Ransom, Jay Ellis

- 1949 21.6032 Uranium strike . . . in petrified wood. *Desert Magazine*, 12(10) (August): 10-14. [Maggie and Riley Baker, Vermilion Cliffs carnotite. Includes postscript, p. 14, "Rich New Find at Baker Uranium Mine".] [Ellipsis is part of title.]
- 1955 21.3696 *Arizona gem trails and the Colorado Desert of California : a field guide for the gem hunter—the mineral collector[—]the uranium hunter*. Portland, Oregon: Mineralogist Publishing Co., 96 pp. [Stated 1st ed.]
- 1964 21.2682 *A range guide to mines and minerals : how and where to find valuable ores and minerals in the United States*. New York: Harper and Row, 305 pp.
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- 1903 21.4950 Geology of the Globe copper district, Arizona. *U.S. Geological Survey, Professional Paper 12*, 168 pp. [See "Geography", pp. 10-11; "Literature", pp. 11-13; and "Outline of the Physiography of Arizona", pp. 14-16.]
- 1904 21.5623 The geographic distribution of metalliferous ores within the United States. *Mining Magazine*, 10(1) (July): 7-14. [See p. 12, Kaibab Plateau copper occurrences, *in passing*.]
- 1908 21.2683 Pre-Cambrian sediments and faults in the Grand Canyon of the Colorado. *Science, New Series*, 27 (April 24): 667-669.
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- 1914 21.3853 Preface. *In*: Noble, L. F., The Shinumo quadrangle, Grand Canyon district, Arizona. *U.S. Geological Survey, Bulletin 549*, pp. 7-9.
- 1915 21.2684 The Tertiary orogeny of the North American Cordillera and its problems. *In*: *Problems of North American geology : a series of lectures dealing with some of the problems of the Canadian Shield and of the Cordilleras, delivered at Yale University on the Silliman Foundation in December, 1913*. New Haven, Connecticut: Yale University Press, pp. 287-376. [See p. 291.]
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- 1916 21.7849 "Some Paleozoic sections in Arizona, and their correlation." F. L. Ransome. U. S. Geological Survey Professional paper No. 98-K [ABSTRACT]. *In: Abstracts [SECTION]. Washington Academy of Sciences, Journal*, 6(20) (December 4): 681-682. [Abstract signed "F. L. R."]
- 1920 21.7840 The functions and ideals of a national geological survey. *Science, New Series*, 51(1312) (February 20): 173-180, (1313) (February 27): 201-207. [See p. 176: "In my opinion such works as Dutton's Tertiary History of the Grand Canyon, Gilbert's Lake Bonneville, and the investigations of Marsh, Cope, and their successors, on the wonderful series of reptile, bird and mammal remains found in the Cretaceous and Tertiary strata of the west are fully as adequate and appropriate a return for the expenditure of public funds as a report describing the occurrence of a coal bed and giving the quantity of coal available in a given field."]
- 1929 21.4410 Report on the geology of the Bridge Canyon dam sites on the Colorado River, Arizona. *Metropolitan Water District of Southern California, Report 199*, 12+ pp.

Rascoe, Bailey, Jr., AND Baars, Donald L.

- 1972 21.2686 Permian System. *In: Mallory, William Wyman (ed.-in-chief), Geologic atlas of the Rocky Mountain region.* Denver: Rocky Mountain Association of Geologists, pp. 143-165.
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Rasmussen, J. D.; Cunningham, C. G.; AND Gautier, A. M.

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Rasmussen, Jan C.

- 2012 21.7571 Geologic history of Arizona. *Rocks and Minerals*, 87(1) (January/February): 56-63.

Rasor, Charles A.

- 1949 21.2688 Report on investigation of radioactive minerals at Hack's Canyon Mine, Mohave County, Arizona. *U.S. Atomic Energy Commission, Open-File Report RMO-24*, 7 pp.

Rath, Gerhard vom

- 1885 21.5784 [Shared observations on a journey through southern California and adjacent areas of Arizona, and the geology and physiography of those areas.] *From:*

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Rathbun, Richard

1917 21.5872 *Report on the progress and condition of the United States National Museum for the year ending June 30, 1916.* Washington, D.C.: U.S. Government Printing Office. [See "List of Accessions to the Collections During the Fiscal Year 1915-1916" (section); specifically, p. 156: "Hough, Dr. Walter, U. S. National Museum: . . . a flint arrowpoint and a fossil horse-tooth, collected by Mr. P. C. Bicknell in the Grand Canyon, 20 miles south of Bright Angel trail, Coconino County, Ariz. (59590)." [*sic; i.e.,* from the area of the Anita mine, near the spur from the Grand Canyon Railway].]

Ratkevich, Ron

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Raub, Timothy D.

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Rauber, Paul

2005 *21.4058* Noah's canyon? Geology collides with theology at the National Park Service. *Sierra*, (March/April): 12.

Raucci, Jason J.

2004 21.4015 *Structure and neotectonics of the Hurricane Fault, western Grand Canyon, Mohave County, Arizona.* Master's thesis, Northern Arizona University, 188 pp.

Raucci, Jason J., AND Umhoefer, Paul J.

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- 1996 21.4438 *Geologic description, sampling, petroleum potential, and depositional environment of the Chuar Group, Grand Canyon, Arizona : executive summary.* Tucson: Arizona Geological Survey, 3 pp.
- 2001 21.7396 Arizona has oil and gas potential! *Arizona Geological Survey, Circular 29*, 40 pp.
- 2001 21.3739 Report lists Arizona's oil, gas potential. *Oil and Gas Journal*, 99(12): 36-38, 40. [Refers to Rauzi (2001, *ITEM NO.* 21.7396).]
- 2002 21.3756 Arizona has salt! *Arizona Geological Survey, Circular 30*, 36 pp.
- 2002 21.3757 Arizona has salt. *Arizona Geology*, 32(1) (Spring): 1-5.
- 2003 21.3864 Correlation of Pennsylvanian and Permian strata in Coconino County, Arizona. *Arizona Geological Survey, Open-File Report 03-01*, 4 pp., 4 sheets.
- 2004 21.4435 Hydrocarbon potential of Precambrian Chuar Group, northern Arizona and southern Utah. *Petroleum Frontiers*, 20(3): 42-49.
- 2009 21.4656 Oil and natural gas occurrence in Arizona. *Arizona Geological Survey, Oil and Gas Publication OG-35 (OGCC Chart C-1)*, 1 sheet. [Stratigraphic chart; "From J.N. Conley, 1974".]

Rauzi, Steven L., AND Fellows, Larry D.

- 2003 21.3871 Holbrook Basin: Correlation and resources. *Arizona Geology*, 33(2) (Summer): 3-5.

Rauzi, Steven L., AND Spencer, Jon E.

- 2013 21.6303 Potential targets for shale-oil and shale-gas exploration in Arizona. *Arizona Geological Survey, Open-File Report 13-09*, 9 pp. [Includes Grand Canyon formations.]

Ravenel, William deC.

- 1922 21.5390 Appendix 1. Report on the United States National Museum. *In*: Walcott, Charles D., *Report of the Secretary of the Smithsonian Institution : for the year ending June 30, 1922.* Washington, D.C.: U.S. Government Printing Office, pp. 26-41. ["Early in the year Mr. F. W. Foshag collected minerals from interesting cave deposits in the Grand Canyon, near Supai, Ariz., a project made possible through the courtesy of Mr. C. A. Heberlein, operating in the region." (ENTIRE NOTE)]

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- 1979 21.2693 Depositional dynamics of the Mississippian Redwall Limestone in northern Arizona. *In*: Beus, Stanley S., and Rawson, Richard R. (eds.), Carboniferous stratigraphy in the Grand Canyon country, northern Arizona and southern Nevada. 9th International Congress of Carboniferous Stratigraphy and Geology, Field Trip no. 13. *American Geological Institute, AGI Selected Guidebook Series*, (2): 81-88.
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Rawson, Richard R., AND Turner, Christine E.

- 1974 21.2694 The Toroweap Formation; a new look. *In*: Karlstrom, T. N. V., Swann, G. A., and Eastwood, R. L. (eds.), Geology of northern Arizona, with notes on archaeology and paleoclimate. *Geological Society of America, Rocky Mountain Section, Guidebook 27, Part 1, Regional studies*, pp. 155-190.
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- 1980 21.4833 Radar altimetry in the Valles Marineris chaos. *11th Lunar and Planetary Science Conference, March 17-21, 1980, Houston, Texas*, abstract no. 1339, pp. 952-954. [Concerning Mars, but also includes Grand Canyon in Southwest transect using Seasat-A altimeter.]

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Rothpletz, August

- 1915 21.7962 Über die systematische Deutung und die stratigraphische Stellung der ältesten Versteinerungen Europas und Nordamerikas mit besonderer Berücksichtigung der Cryptozoen und Oolithe. I. Teil: Die Fauna der Beltformation bei Helena in Montana. *Königlich Bayerischen Akademie der Wissenschaften* (Mathematisch-physikalische Klasse) (München), 18(1), 46 pp., 2 plates. [See "Vorbemerkung zum I. Teil" (pp. 3-4), which relates to the author's participation in the 1913 International Geological Congress and his intent to do field studies that included mounting an expedition to study the paleontology of the Chuar Group of Grand Canyon, following the footsteps of Charles D. Walcott. He intended to use the Grandview Hotel as a base of operation, but he discovered that there was no boat to ferry him to the north side of the Colorado River. Instead he focused on the Unkar Group on the south side of Grand Canyon, realizing that any expedition to the Chuar would require bringing pack animals in from the north.] [In German.]
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National Park Service, Washington, D.C.) [Reset reprinting of Santucci and Tweet (2020, *ITEM NO.* 21.8027).] [Individually authored chapters and appendices (cited separately herein), with original cover art by Julius Csotonyi.] [This is *State 2*, in print format, which was produced as a one-off job by the U.S. Government Printing Office as arranged by the U.S. National Park Service (but not indicated anywhere in the publication); 200 copies. It also can be distinguished from *State 1* by its corrected title of the “Foreword” by Jeanne A. Calhoun (p. v), who mentions “Dr. Earle Spamer” (with both names corrected but the title “Dr.” retained). The print version was first mailed on May 18, 2021.]

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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

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- 1997 21.2982 Genesis and evolution of low-Al orthopyroxene in spinel peridotite xenoliths, Grand Canyon field, Arizona, USA. *Contributions to Mineralogy and Petrology (Beitrag zur Mineralogie und Petrologie)*, 127(4): 391-404.

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- 2018 21.7640 Tonian and Cryogenian basin formation in Death Valley, California and the paleoenvironmental context of the Pahrump Group [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 50(6): doi:10.1130/abs/2018AM-320801. [Includes note of Chuar Group of Grand Canyon.]

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Sun, Weiguo

- 1985 21.7578 *Contributions to palaeontology and stratigraphic correlation of the late Precambrian in China and Australia*. Doctoral dissertation, University of Adelaide, 291 pp. [including 21 plates]. [See Chapter 3, "Palaeontology and Biostratigraphy of Late Precambrian Macroscopic Colonial Algae: *Chuar* Walcott and *Tawuia* Hofmann", pp. 88-173, which includes Grand Canyon.]

Sundberg, Fred [Sundberg, Frederick A.]⁹²

- 2019 21.7959 Editorial: Into the canyon of time. *The Trilobite Papers* (An international newsletter for and by trilobite paleontologists) (Show Low, Arizona), (22): 2. [Remarks on a 14-day research trip on the Colorado River through Grand Canyon with Karl Karlstrom and others, to, among other tasks, "to re-investigate the Cambrian of the Grand Canyon, which included collecting fossil localities".]
- 2020 21.8119 [Note.] *In*: Research Reports [SECTION]. *The Trilobite Papers* (An international newsletter for and by trilobite paleontologists) (Show Low, Arizona), (23) (February): 3-4. [Briefly notes recent research, in press, that redefines the Tonto Group of Grand canyon.]
- 2022 21.8396 [Note.] *In*: Research Reports [SECTION]. *The Trilobite Papers* (An international newsletter for and by trilobite paleontologists) (Show Low, Arizona), (25) (February): 10. [Briefly notes recent research on Cambrian trilobites of the Tonto Group in Grand Canyon.]

⁹² Editor's note in *The Trilobite Papers*: "Please keep in mind that The Trilobite Papers is not a formal publication and should never be cited. If you wish to use information in this series for a formal publication, please contact the author of the information and then it could be cited only as 'personal communication'. This is particularly important for the sections on 'Field Notes' and 'Taxonomic Notes'." Items from this serial cited in THE GRAND CANON are *historical records of contemporary activities* in the Grand Canyon region. (Later issues omit the editor's note.)

PART 21. GEOLOGY AND PALEONTOLOGY OF THE GRAND CANYON REGION

IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

Sundberg, Frederick A.; Karlstrom, Karl E.; Geyer, G.; Foster, John R.; Hagadorn, James W.; Mohr, Michael T.; Schmitz, Mark D.; Dehler, Carol M.; AND Crossey, Laura J.

- 2020 21.8017 Asynchronous trilobite extinctions at the early to middle Cambrian transition. *Geology*, 48(5): 441–445. [Includes brief note of detrital zircon dating of the Tapeats Sandstone in Grand Canyon, southern Nevada, and central Arizona.]

Sung, Su-Kyung; Lee, Eun-Seok; AND Shin, Byeong-Seok

- 2021 21.8240 Prevention of mountain disasters and maintenance of residential area through real-time terrain rendering. *Sustainability* (MDPI: Multidisciplinary Digital Publishing Institute, Basel, Switzerland), 13(2950), <https://doi.org/10.3390/su13052950>, 13 pp. [Methods include the use of the Grand Canyon data set.]

Supan, Alexander

- 1896 21.3126 *Grundzüge der physischen Erdkunde*. Leipzig: Von Veit und Comp., 706 pp. [See pp. 389, 458-459.] [In German.]
- 1887 21.5842 Le Conte, A post-tertiary Elevation of the Sierra Nevada shown by the River beds. (Amer. Journ. of Sc. 1886, Bd. XXXII, S. 167.) *In*: Supan, Alexander (ed.), *Geographischer Litteratur-Bericht für 1887*. (Beilage zum 33. Band von Dr. A. Petermanns Mitteilungen.) Gotha: Justus Perthes, p. 11. [Item signed only, "Supan". Includes note of Grand Canyon.] [Abstract of LeConte (1886, *ITEM NO.* 21.5830).] [In German.]
- 1903 21.3127 *Grundzüge der physischen Erdkunde*. Leipzig: Von Veit and Co., 852 pp. [See pp. 474, 484, 553.] [In German.]
 ≡ *CROSS-LISTINGS* | *CITED*» GCNHA Monograph 8: page 3-87|
- 1908 21.3128 *Grundzüge der physischen Erdkunde*. Leipzig: Von Veit and Co., 936 pp. [See pp. 510, 529, 603-604, 612-613.] [In German.]
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Suppe, John; Powell, Christine; AND Berry, Robert

- 1973 21.3129 Regional topography, seismicity, volcanism, and the present-day tectonics of the western United States. *In*: Proceedings of the Conference on Tectonic Problems of the San Andreas Fault System. *Stanford University Publications, Geological Sciences*, 13: 181-185.
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- 1975 21.3130 Regional topography, seismicity, Quaternary volcanism, and the present-day tectonics of the western United States. *American Journal of Science*, Rodgers Volume, 275-A: 397-436.
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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

Sutherland, Diony H.

- 1964 21.3131 (ED.) Contributions to the geology of northern Arizona; Major Brady memorial. *Museum of Northern Arizona, Bulletin 40*, 71 pp.
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Sutphin, Hoyt B.

- 1986 21.3132 *Occurrence and structural control of collapse features on the southern Marble Plateau, Coconino County, Arizona*. Master's thesis, Northern Arizona University, 139 pp.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-114|

Sutphin, Hoyt B., AND Wenrich, Karen J.

- 1983 21.3133 Structural control of breccia pipes on the southern Marble Plateau, Arizona. *U.S. Geological Survey, Open-File Report 83-908*, 6 pp., 2 sheets, scale 1:50,000.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-87|
- 1986 21.3134 Redwall Limestone joint control on Orphan-Mine type breccia pipes on the Marble Plateau, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 18(5): 416.
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- 1987 21.3135 Caves in the Redwall Limestone, central Hualapai Reservation, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 19(7): 860.
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Swaby, Andrielle N.; Lucas, Mark D.; AND Ross, Robert M.

- 2016 21.7272 (EDS.) *The Teacher-Friendly Guide to the earth science of the southwestern US*. Ithaca, New York: Paleontological Research Institution, 455 pp. (Teacher-Friendly Guide™.)
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Swaine, A. T.

- 1913 21.5167 *The Earth: Its genesis and evolution : considered in the light of the most recent scientific research*. London: Charles Griffin and Co., Ltd., 277 pp. [See pp. 26, 93, 96-97, 147, 167, 212, 217.]
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Swaney, Zack A.

- 2005 21.4139 *Tilting history of the Lost Basin Range and western Grand Trough, northwest Arizona: regional implications*. Master's thesis, Northern Arizona University, 140 pp.
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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

Swanson, Riley; Springer, Abraham E.; AND Tobin, Benjamin W.

- 2019 21.7893 Quantifying the base flow contribution of southern Utah and northern Arizona to the Colorado River: Developing a basin-wide water budget analysis [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 51(5): Paper No. 267-3 (<https://gsa.confex.com/gsa/2019AM/meetingapp.cgi/Paper/333680>). [Groundwater contributions in Dirty Devil River, Escalante River, Paria River, Kanab Creek, and Little Colorado River sub-basins.]

Swanson, Riley K.; Springer, Abraham E.; Kreamer, David K.; Tobin, Benjamin W.; AND Perry, Denielle M.

- 2020 21.8170 Quantifying the base flow of the Colorado River: its importance in sustaining perennial flow in northern Arizona and southern Utah (USA). *Hydrogeology Journal*, <https://doi.org/10.1007/s10040-020-02260-5>, 14 pp. [River gauges utilized for base-flow separation methods: Bright Angel Creek, Colorado River at Diamond Creek, Colorado River at Lees Ferry, Colorado River at Phantom Ranch (pre- and post-Glen Canyon Dam), Dirty Devil River, Escalante River, Havasu Creek, Kanab Creek, Little Colorado River, Paria River.]

Swapp, Cloyd W.

- NO DATE 21.6291 The geology and gas and oil possibilities of northwestern Arizona. *In: Oil, gas and helium in Arizona : its occurrence and potential*. [No place]: Arizona Development Board, for Arizona Oil and Gas Conservation Commission, pp. 35-41. [1961.]

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- 2001 *21.6862* Radio-dating in rubble; the lava dome at Mount St[.] Helens debunks dating myths. *Creation*, 23(3) (June/August): 23-25. [Includes Grand Canyon.] [Creationist perspective.]

Swezey, G. D.

- 1894 21.5941 An exercise in geology. *Science*, 23 (February 16): 85-86. [See p. 85, Grand Canyon, *in passing*.]

Swift, William M.

- 1970 21.3137 "Geologic cross-section of the Grand Canyon of Arizona". Grand Canyon Natural History Association. [Postcard.]
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Sydow, M., AND Brumbaugh, D. S.

- 1987 21.3138 Seismicity in the San Francisco volcanic field, northern Arizona [ABSTRACT]. *Arizona-Nevada Academy of Science, Journal*, 22 (1987 Proceedings Supplement): 45.
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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

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- 1985 21.3139 *Depositional, diagenetic, and subsidence history of the Redwall Limestone, Grand Canyon National Park, Arizona.* Master's thesis, University of Arizona, 267 pp.

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- 1984 21.3141 Tectonic versus eustatic control of Early Mississippian shelf sedimentation, northwestern Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 16(6): 672.
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Syverson, Valerie J., AND Prothero, Donald R.

- 2010 21.6071 Evolutionary patterns in Late Quaternary California condors. *PalArch's Journal of Vertebrate Paleontology* (PalArch Foundation), 7(1): 1-18.

Szabo, Barney J.

- 1990 21.3142 Age of travertine deposits in eastern Grand Canyon National Park, Arizona. *Quaternary Research*, 34(1): 24-32.
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- 1991 21.3143 Conventional uranium-series and uranium-trend dating. *From:* Rosholt, John N., Colman, Steven M., Stuiver, Minze, Damon, Paul E., Naeser, Charles W., Naeser, Nancy D., Szabo, Barney J., Muhs, Daniel R., Linddicoat, Joseph C., Forman, Steven L., Machette, Michael N., and Pierce, Kenneth L., Dating methods applicable to the Quaternary. *In:* Morrison, Roger B. (ed.), Quaternary nonglacial geology: Conterminous U.S. *Geological Society of America, Geology of North America, Volume K-2*, pp. 55-60. [Combined references for chapter, pp. 69-74.]
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 8: page 3-114 to 3-115](#)

Szabo, Barney J., AND Winograd, Isaac J.

- 1995 21.3144 Paleoclimatic, paleohydrologic and tectonic applications of uranium-series dating of travertine and calcite vein samples from southern Great Basin and Grand Canyon areas. *U.S. Geological Survey, Open-File Report 95-37*, 26 pp.

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 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 8: page 3-87](#)

Szary, William A.

- 2024 21.8479 *The Grand Canyon : road log, backcountry, and boat trip geology.* [No imprint], 238 pp. [An on-demand publication.]

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Sze, Xing Jian [Sze, H. C.] [斯行健]

- 1955 21.7085 山西上石盒子系一種“種子蕨” *Protoblechnum wongii* Halle 的一塊新發現的 分叉的蕨葉化石。 On a forked frond of *Protoblechnum wongii* Halle. 古生物學報 *Acta Palaeontologica Sinica* (Beijing), 3(1) (February): 11-24, Plates 1-4. [Includes comparisons to paleoflora from the Hermit Shale of Grand Canyon, pp. 15-17, 20. Abstract notes in part (p. 23), “. . . the new generic name *Supaia* of White founded on specimens from the Hermit Shale in Grand Canyon, Arizona[,] is not valid.”] [**NOTE:** The phrase in quotation marks in the Chinese title, “種子蕨”, translates as “see fern”. The specific epithet *wongii* is spelled “wongi” in the Chinese title (in Roman orthography, as shown), but is otherwise correctly spelled *wongii* in the English title and throughout the paper. The species *P. wongii* does not occur in Grand Canyon strata.] [**In Chinese, with English title and abstract; with bilingual serial title.**]

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Tabachnik, Rachel

- 1979 21.3146 Cambrian stratigraphy. *In*: Nelson, C. A. (ed.), *Grand Canyon*. University of California at Los Angeles, Department of Earth and Space Sciences, ESSSO Guidebook 9, pp. 23-27.
 ≡ **CROSS-LISTINGS** | **CITED»** GCNHA Monograph 8: page 3-87|

Taber, C. A. M.

- 1894 21.5376 *The cause of warm and frigid periods*. Boston: George H. Ellis, Printer, 80 pp. [A “vast area of ancient ice [in Utah] . . . must have found its main outlet through the Grand Canyon of the Colorado.” Conjectural; no further elaboration. The author for 20 years had been employed in the “whaling service” in various oceans of the world.]
- 1896 21.6688 *The coming Ice Age*. Boston: George H. Ellis, 94 pp. [See pp. 68-69, regarding supposed glacial origin of Grand Canyon.]

Taber, Stephen

- 1916 21.7843 The origin of veins of the asbestiform minerals. *U.S. National Academy of Sciences, Proceedings*, 2(12) (December 15): 659-664. [See p. 661, brief note of chrysotile asbestos veins in Grand Canyon.]

Tainter, Stanton L.

- 1947 21.3147 Apex copper property, Coconino County, Arizona. *U.S. Bureau of Mines, Report of Investigations R. I. 4013*, 16 pp.
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Tait, Kathleen; Pickard, Megan; Guertin, Laura; AND Furman, Tanya

- 2010 21.7826 Dispelling middle school misconceptions of Grand Canyon formation through hands-on activities [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 42(1): 131.
- 2012 21.7827 Dispelling middle school student misconceptions of Grand Canyon formation through hands-on activities. *The Earth Scientist* (National Earth Sciences Teachers Association, Boulder, Colorado), 27(2) (Summer) (Special Issue): 22-26.

Talyzina, N. M.

- 2000 21.4480 Ultrastructure and morphology of *Chuar* *Chuar* *Chuar* (Walcott, 1899) Vidal and Ford (1985) from the Neoproterozoic Visingso Group, Sweden. *Precambrian Research*, 102(1) (July): 123-134.

Tallon, James

- 1959 21.3676 Vigils on the Colorado. *Westways*, 51(3): 20-21. [River gage station operated by Harry Aleson.]

Tamura, Minoru [田村 実]

- 1996 21.7334 グランドキャニオンの地質見学 [Gurandokiya san on no chishitsu kengaku] [Geological tour of Grand Canyon]. 熊本地学会誌 [Kumamoto-chi gakkai] [Kumamoto Geoscience Society, Journal], 111 (April): 6-12. [In Japanese.]

Tang, Chunan; Bao, Chunyan; Li, Sanzhong; AND Xia, Kaiwen

- 2016 21.7104 A stress-rifting origin of Grand Canyon. *Science Bulletin* (Beijing), 61(6): 495-504.

Tang, Feng; Yin, Chongyu; Liu, Pengju; Gao, Linzhi; AND Wang, Ziqiang [唐 烽; 尹崇玉; 刘鹏举; 高林志; 王自强]

- 2009 21.8220 华南新元古代宏体化石特征及生物地层序列 [Huánán xīn yuán gǔdài hóng tǐ huàshí tèzhēng jí shēngwù dìcéng xùliè]. Neoproterozoic macrofossil records in South China and biostratigraphic successions and correlations. 地球学报 [dìqiú xuébào] / *Acta Geoscientica Sinica*, 30(4) (August): 505-522. [Includes *Chuar* throughout, including *C. circularis* and *Chuar* Group.] [In Chinese, with bilingual titles and abstract.]

Tanner, Lawrence H., AND Lucas, Spencer G.

- 2010 21.7936 Deposition and deformation of fluvial-lacustrine sediments of the Upper Triassic-Lower Jurassic Whitmore Point Member, Moenave Formation, northern Arizona. *Sedimentary Geology*, 223: 180-191.

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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

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Tanski, Natalie; Pederson, Joel; Hidy, Alan J.; AND Rittenour, Tammy M.

- 2024 21.8571 The mystery of unstable and transient Pleistocene incision in the Colorado Plateau [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 56(5), abstract 60-3 (<https://doi.org/10.1130/abs/2024AM-404249>).

Tanski, Natalie; Schenk, Edward R.; AND Tobin, Benjamin W.

- 2017 21.7303 Potential knickpoint retreat on the Colorado River due to historically low Lake Mead levels, Grand Canyon National Park [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 49(6), Session 144, doi:10.1130/abs/2017AM-304304.

Tanton, Tom

- 2012 21.6163 *Dig it! Rare earth and uranium mining potential in the states.* Washington, D.C.: American Legislative Exchange Council, 18 pp. [See p. 8.]

Tao, Thomas

- 2018 21.7508 *The origin of abyssal rivers, the Grand Canyon and man.* [No imprint], 110 pp. [Regarding the author's proposed "Miocene Glacier".] [An on-demand publication.]

Tapp, Bryan, AND Wolgemuth, Ken

- 2016 *21.6981* Plate tectonics; our restless earth. *In:* Hill, Carol A., Davidson, Gregg, Helble, Tim, and Ranney, Wayne (eds.), *The Grand Canyon : monument to an ancient earth : can Noah's Flood explain the Grand Canyon?* Grand Rapids, Michigan: Kregel Publications; and Tulsa, Oklahoma: Solid Rock Lectures, pp. 108-115.
- 2016 *21.6982* Broken and bent rock; fractures, faults, and folds. *In:* Hill, Carol A., Davidson, Gregg, Helble, Tim, and Ranney, Wayne (eds.), *The Grand Canyon : monument to an ancient earth : can Noah's Flood explain the Grand Canyon?* Grand Rapids, Michigan: Kregel Publications; and Tulsa, Oklahoma: Solid Rock Lectures, pp. 116-127.

Tarnowski, Stanisław

- 2005 21.4504 *Geologia Wielkiego Kanionu.* Warszawa: Stanisław Tarnowski, [11] pp. [In Polish.]

Tarr, Ralph Stockman

- 1897 21.3148 *Elementary geology.* New York: Macmillan Co., and London: Macmillan and Co., Ltd., 499 pp. [See pp. 161, 170-172.]

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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

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| 1904 | 21.4873 | <i>New physical geography</i> . New York: Macmillan Co., 547 pp. [See pp. 81-82, 322-324.] |
| 1911 | 21.3149 | History of the Grand Canon district. <i>American Geographical Society, Bulletin</i> , 43: 285-286. |
| 1914 | 21.6242 | <i>College physiography</i> . New York: Macmillan Co., 837 pp. [Grand Canyon and Colorado River, see pp. xviii, 120-123, 177, 184, 185, 516, 518-519, 521, Plate 8 (between pp. 516/517); Colorado River delta, p. 349.] |

Tasch, Paul

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| 1955 | 21.3740 | The concept of psephonecrocoenosis applied to "dwarf" fossil faunas. <i>American Midland Naturalist</i> , 53(1): 205-212. |
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Tauchid, M., AND Underhill, D. H.

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| 1997 | 21.6041 | Uranium deposits of the world. <i>In</i> : Gubins, Arnis G. (ed.), <i>Geophysics and Geochemistry at the Millenium: Proceedings of Exploration 97 : Fourth Decennial International Conference on Mineral Exploration</i> . Toronto, Ontario: Prospectors and Developers Association of Canada, pp. 177-180. [Volume includes CD-ROM with color figures and full proceedings; errata.] |
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Taylor, Dwight W.

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| 1970 | 21.3150 | West American freshwater Mollusca, 1: Bibliography of Pleistocene and Recent species. <i>San Diego Society of Natural History, Memoir 4</i> , 73 pp.
≡ CROSS-LISTINGS CITED» GCNHA Monograph 8: page 3-115 |
| 1975 | 21.3151 | Index and bibliography of late Cenozoic freshwater Mollusca of western North America. Claude W. Hibbard Memorial Volume 1. <i>University of Michigan, Papers on Paleontology</i> , (10), 384 pp.
≡ CROSS-LISTINGS CITED» GCNHA Monograph 8: page 3-115 |
| 1983 | 21.3152 | Late Tertiary mollusks from the lower Colorado River valley. <i>University of Michigan, Museum of Paleontology, Contributions</i> , 26(13): 289-298.
≡ CROSS-LISTINGS CITED» GCNHA Monograph 8: page 3-87 |

Taylor, Howard E.; Spence, John R.; Antweiler, Ronald C.; Berghoff, Kevin; Plowman, Terry I.; Peart, Dale B.; AND Roth, David A.

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| 2004 | 21.4143 | Water quality and quantity of selected springs and seeps along the Colorado River corridor, Utah and Arizona: Arches National Park, Canyonlands National Park, Glen Canyon National Recreation Area, and Grand Canyon National Park, 1997-98. <i>U.S. Geological Survey, Open-File Report 2003-496</i> , 34 pp. |
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Taylor, Laura; Copeland, Peter; AND Sisson, Virginia B.

- 2019 21.7904 Fluid inclusions in carbonates from the Mauv [*sic*, Muav], Redwall, Supai, and Kaibab Formations of the Grand Canyon [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 51(5): Paper No. 262-5
(<https://gsa.confex.com/gsa/2019AM/meetingapp.cgi/Paper/331845>).
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Taylor, W. B.

- 1876 21.7717 [Remarks.] *In*: Powell, John Wesley, Monoclinical ridges [ABSTRACT]. *Philosophical Society of Washington, Bulletin* (Washington, D.C.), 2: 76. [Volume 2 (October 10, 1874-November 2, 1878) with title-page dated "1875-1880", collated in *Smithsonian Miscellaneous Collections*, 20 (1881).]
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Taylor, Walter W.

- 1954 21.3153 An analysis of some salt samples from the Southwest. *Plateau*, 27: 1-7.
≡ CROSS-LISTINGS [CITED» GCNHA Monograph 2: page 78| [CITED» GCNHA Monograph 8: page 3-87|
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Taylor, Wanda J., AND Stewart, Meg E.

- 1998 21.3155 Earthquake fault segments, geometric fault segments and segment linkage on the Hurricane fault, southern Utah and northern Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 30(6): 38.
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Taylor, Wilson A., AND Strother, Paul K.

- 2008 21.4254 Ultrastructure of some Cambrian palynomorphs from the Bright Angel Shale, Arizona, USA. *Review of Palaeobotany and Palynology*, 151(1/2): 41-50.
- 2008 21.4318 Ultrastructure of Cambrian cryptospores support multilaminar walls as the primitive condition in the plant sporoderm [ABSTRACT]. *Geological Society of America, Abstracts with Programs (Northeast Section, 43rd Annual Meeting)*, Paper no. 2-5.
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Tedford, Richard H.; Wang, Xiaoming; AND Taylor, Beryl E.

- 2009 21.6377 Phylogenetic systematics of the North American fossil Caninae (Carnivora: Canidae). *American Museum of Natural History, Bulletin* 325, 218 pp. [Includes material from Anita, Arizona.]
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Teichert, Curt

- 1965 21.3156 Devonian rocks and paleogeography of central Arizona. *U.S. Geological Survey, Professional Paper* 464, 181 pp.
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- 1885 21.6921 The age of the world. *Kansas City Review of Science and Industry*, 8(10) (February): 570-575. [See p. 574: "A very noted example of river erosion is exhibited by the Grand Cañon of the Colorado River, which is 300 miles long and from 2,000 to 6,000 feet deep. But we have no data from which to estimate the time required for the river to cut its way through this distance of rock. We do not know the present rate of recession, nor do we know but the river simply followed and enlarged a crevasse that had been formed by some convulsion of nature. As all such data are unreliable, all conclusions drawn from them must be fallacious." (ENTIRE NOTE)]

Tenney, J. B.

- 1928 21.3157 The mineral industries of Arizona. *University of Arizona, Bulletin (Arizona Bureau of Mines Annual Review, Series 1, Bulletin 125)*, 135 pp.
- 1930 21.6028 Second report on the mineral industries of Arizona. *University of Arizona, Bulletin*, 1(1) (*Arizona Bureau of Mines Biennial Review, Series 2, Bulletin 129*), 108 pp. [See p. 73, Bentley District and Ryan District.]
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Tokuyama, Akira [徳山明]

- 2004 21.3962 東京地学協会海外見学旅行「アメリカ西部の大峡谷をゆく」参加記 [Tōkyō chigaku kyōkai kaigai kengaku ryōkō `Amerika seibu no dai kyōkoku o yu ku' sankaki]. Geodynamic excursion through the West of America. *地学雑誌 [Chigakuzasshi] Journal of Geography* (Tokyo Geographical Society), 113(1): cover, inside front cover, Pictorial 1 [2 pp.], 155-163. [English title as given in article. Direct, fuller translation of the Japanese title (here): "Tokyo Geoscience Association overseas tour; 'Visit to the Grand Canyon, western USA'; participation note".] [In Japanese, with bilingual article and serial titles.]

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- 2009 21.4695 Arid geomorphology: emerging research themes and new frontiers. *Progress in Physical Geography*, 33(2): 251-287.

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- NO DATE 21.7143 (WITH British Society for Geomorphology, Executive Committee) *10 rheswm pam mae geomorffoleg yn bwysig*. [No place]: British Society for Geomorphology, 13 pp. [2014?] [See no. 10, "Mae gwybodaeth geomorffolegol yn allweddol i reolaeth amgylcheddol lwyddiannus", pp. 11-12; including Grand Canyon.] [In Welsh.]
- NO DATE 21.7983 (WITH British Society for Geomorphology, Executive Committee) ۰ دلیل برای اینکه چرا [10 reasons why geomorphology is important] رضا خوشرفقنار. [Reza Khoshrafter], translator.) [No place]: انجمن ژئومورفولوژی بریتانیا [British Society for Geomorphology], 32 pp. [See no. 10, "مدیریت زیستمحیطی موفق، نیازمند دانش ژئومورفولوژی است" [Successful environmental management requires knowledge of geomorphology], pp. 27-29; including Grand Canyon.] [In Persian.]

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| NO DATE | 21.7998 | (WITH British Society for Geomorphology, Executive Committee) <i>10 razones por las cuáles la geomorfología es importante</i> . [No place]: British Society for Geomorphology, 13 pp. [2014?] [See no. 10, "Una gestión ambiental efectiva necesita conocimientos de la geomorfología", pp. 14-15, including Grand Canyon. [In Spanish.] |
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- Törnebohm, A. E.**
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- Toula, Franz**
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- 1887 21.3184 *Geologische Forschungsergebnisse aus dem Flussgebiet des Colorado. Ein Vortrag gehalten im vereine zur Verbreitung naturwissenschaftlicher Kenntnisse in Wien am. 5. Jänner 1887.* Wien, 51 pp. [Offprint of ITEM NO. 21.4981.] [In German.]
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- 2018 21.7975 Testing the fidelity of peridotite xenoliths as records of water in the lithospheric mantle [ABSTRACT]. *American Geophysical Union, 2018 Fall Meeting, Washington, D.C., 10-14 December 2018*, Abstract V34B-07. [Study performed on material "erupted from a scoria cinder cone north of the Grand Canyon".]

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- 2013 21.8325 *Interactive rendering techniques for Focus+Context visualization of 3D geovirtual environments.* Doctoral dissertation, Universität Potsdam, 150 pp. [Grand Canyon terrain model, see pp. 41, 86, 99.]
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- 1997 21.3186 (COMPILER) Bibliography of uranium- and copper-bearing breccia pipes on or near the Colorado Plateau of Arizona. *Arizona Geological Survey, Open-File Report 97-13*, 11 pp. [Extracted from AZGEOBIB computerized bibliographical database (see Trapp et al.).]

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- 1995 21.3187 AZGEOBIB, Version 2.0: A list of references on the geology of Arizona. *Arizona Geological Survey, Open-File Report 95-4*, 326 pp. and 3.5-inch diskette in pocket.
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- 1884 21.4943 Ueber die neuesten arbeiten der Nordamerikanischen Staatsgeologen. *Société Impériale des Naturalistes de Moscou, Bulletin*, 58 [for 1883] (Part 2) (4): 337-346. [Article signed with date of "April 1884".] [Overview of Dutton (1882, [ITEM NO. 21.918](#)).] [In German.]
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- 1977 21.7126 From gold ore to bat guano: Aerial mine tramways in the West. *Mining History Journal*, 4: 3-13. [See p. 11, Bat Cave, Grand Canyon.]
- 2001 21.7127 *Riding the high wire : aerial mine tramways in the West.* Boulder, Colorado: University Press of Colorado, 140 pp.
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Tressler, Christopher; Parr, Todd; AND Pederson, Joel

- 2009 21.4690 Development of erosion-control strategies [*sic*] for archeological sites in Grand Canyon through the use of an experimental drainage [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 41(6): 19.

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- 2010 21.5412 The hunt for knickzones and their meaning along the Colorado—signatures of transience after integration, bed resistance, or differential uplift? [ABSTRACT]. *In: CR_Evolution_2: Origin and Evolution of the Colorado River System II Workshop: May 24-26, 2010, Flagstaff, Arizona*, 3 pp.

Trillian, Edward

- 2016 *21.6871* *The beginner's guide to atheism*. [No place]: End of the Universe Publications, 338 pp. [See p. 230, "The Grand Canyon Was Made in a Jiffy!" Brief points of argument against creationist views of the origin of Grand Canyon.]

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Tripp, Ben

- 2015 *21.6780* *Elements of Providence during the Genesis flood*. (Illustrated by Carolyn Tripp.) [No imprint], 100 pp. [Grand Canyon, see pp. 24, 25, 94.] [An on-demand publication.]

Troutman, Tony John

- 2000 21.3698 Reservoir characterization, paleoenvironment, and paleogeomorphology of the Mississippian Limestone paleokarst, Hualapai Indian Reservation, Grand Canyon, Arizona [ABSTRACT]. *In: AAPG Foundation grants-in-aid recipients for 2000*. Tulsa, Oklahoma: American Association of Petroleum Geologists.
- 2003 21.8104 Predicting heterogeneity in the Redwall paleokarst, Grand Canyon area, Arizona. *From: Cave Research Foundation Activities 2000* [SECTION]. *In: Winkler, Elizabeth*,

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Trowbridge, John

1870 21.3190 (ED.; WITH Samuel Kneeland and W. R. Nichols) *Annual of scientific discovery: or, Year-book of facts in science and art, for 1870, exhibiting the most important discoveries and improvements in mechanics, useful arts, natural philosophy, chemistry, astronomy, geology, biology, botany, mineralogy, meteorology, geography, antiquities, etc., together with notes on the progress of science during the year 1869 : a list of recent scientific publications : obituaries of eminent scientific men, etc.* Boston: Gould and Lincoln; New York: Sheldon and Co.; and London: Trübner and Co. [See "The Colorado Expedition", p. 265.]

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Truini, Margot

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2004 21.5141 Preliminary investigation of structural controls of ground-water movement in Pipe Spring National Monument, Arizona. *U.S. Geological Survey, Scientific Investigations Report 2004-5082*, 17 pp.

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1991 21.3191 Fractals in geology: What are they and what are they good for? *GSA Today* (Geological Society of America), 1(1) (January): 1, 3-4.

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- 1990 21.3195 Toroweap Formation. *In*: Beus, Stanley S., and Morales, Michael (eds.), *Grand Canyon geology*. New York and Oxford: Oxford University Press and Museum of Northern Arizona Press, pp. 203-223.
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Turner, Christine E., AND Rawson, Richard R.

- 1975 21.3196 Facies change in Toroweap Formation, Oak Creek Canyon, Arizona [ABSTRACT]. *American Association of Petroleum Geologists, Bulletin*, 59: 925.
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Turner, Daniel S.

- 1958 21.3197 Devonian System of the Black Mesa Basin. *In*: Anderson, Roger Y., and Harshbarger, John W. (eds.), *Guidebook of the Black Mesa Basin, northeastern Arizona*. *New Mexico Geological Society, 9th Field Conference, Guidebook*, pp. 71-73.
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- 1992 21.3199 Analytical data for stream sediment and soil samples from Williams 1° × 2° quadrangle, Arizona. *U.S. Geological Survey, Open-File Report 92-0227*, computer diskette, 1,471 analyses and introductory files.
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Tweet, Justin S.

- 2020 21.8031 Chapter 4. Precambrian paleontology of Grand Canyon National Park. *In: Santucci, Vincent L., and Tweet, Justin S. (eds.), Grand Canyon National Park : centennial paleontological resource inventory (non-sensitive version).* Fort Collins, Colorado: U.S. National Park Service, Natural Resource Stewardship and Science, pp. 75-107. (Volume: *Natural Resource Report NPS/GRCA/NRR—2020/2103.*)
- 2021 21.8256 Precambrian paleontology of Grand Canyon National Park. *In: Santucci, Vincent L., and Tweet, Justin S. (eds.), Grand Canyon National Park centennial paleontological resource inventory; a century of fossil discovery and research. Utah Geological Association, Special Publication 1,* pp. 55-72, A1-A7, B1-B2 (pagination is contiguous). [Reset reprinting of Tweet (2020, *ITEM NO.* 21.8031).]
- 2021 21.8264 (COMPILER) Grand Canyon National Park paleontological supplemental information: Part A. Fossil taxa named from GRCA. *In: Santucci, Vincent L., and Tweet, Justin S. (eds.), Grand Canyon National Park centennial paleontological resource inventory; a century of fossil discovery and research. Utah Geological Association, Special Publication 1,* pp. [unpaginated page facing 267], 267-281.
- 2021 21.8265 (COMPILER) Grand Canyon National Park paleontological supplemental information: Part B. Fossil taxa potentially named from GRCA. *In: Santucci, Vincent L., and Tweet, Justin S. (eds.), Grand Canyon National Park centennial paleontological resource inventory; a century of fossil discovery and research. Utah Geological Association, Special Publication 1,* pp. 282-283.
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- 2021 21.8351 From microfossils to megafauna: An overview of the taxonomic diversity of National Park Service fossils. *In: Lucas, Spencer G., Hunt, Adrian P., and Lichtig, Asher J. (eds.), Fossil Record 7. New Mexico Museum of Natural History and Science, Bulletin 82,* pp. 437-452. [Includes Grand Canyon National Park.]
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- 2016 21.7075 An updated inventory of paleontological resources from the National Park Service's Mojave Desert Inventory and Monitoring Network [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 48(7): Paper 96-10, doi:10.1130/abs/2016AM-283270. [Mentions Grand Canyon-Parashant National Monument.]

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IN PART 21 ITEM NUMBERS IN *ITALICS* IDENTIFY CREATIONIST WORKS AND CRITICAL PERSPECTIVES ON CREATIONIST THEMES

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- 1889 21.3214 Explorations and surveys—1857-1880. *In: Report upon United States Geographical Surveys West of the One Hundredth Meridian, in charge of Capt. Geo. M. Wheeler. Volume 1. Geographical report.* Appendix F, Memoir of explorations and surveys, etc., Part 3. U.S. Government Printing Office, pp. 599-745. [Appendix F also published separately; see [ITEM NO. 21.3215](#).]
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- 1889 21.3215 Explorations and surveys—1857-1880. *In: Memoir of explorations and surveys, etc.* U.S. Government Printing Office, pp. 599-745. [Separate from *Report upon United States Geographical Surveys West of the One Hundredth Meridian, in charge of Capt. Geo. M. Wheeler. Volume 1. Geographical report.* Appendix F, Part 3, conserving pagination.]
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U.S. Atomic Energy Commission

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- 1970 21.3678 *Preliminary reconnaissance for uranium in Mohave County, Arizona, 1952 to 1956.* Washington, D.C.: U.S. Atomic Energy Commission, Division of Raw Materials, 173 pp. (RME-158.) ("Supersedes PB-172485".)

U.S. Bureau of Education

- 1886 21.5213 *Special report by the Bureau of Education. Educational exhibits and conventions at the World's Industrial and Cotton Centennial Exposition, New Orleans, 1884-'85. Part I. Catalogue of exhibits.* Washington, D.C.: U.S. Government Printing Office, 240 pp. [See under "Geology", p. 114, "Grand Cañon of the Colorado River", reference to a three-dimensional model prepared by Edwin E. Howell, depicting Grand Canyon region and, as small insets at the same scale, Yosemite valley and the Niagara gorge. This refers to the item cited in this bibliography as Edwin E. Howell, no date, [ITEM NO.](#)

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[24.309](#)), *The Grand Cañon of the Colorado of the West and the cliffs of southern Utah.* [Not illustrated.]

U.S. Bureau of Indian Affairs, Hopi Agency, Branch of Land Operations

1976 21.4479 (WITH Kaibab-Paiute Tribe, and U.S. Geological Survey) *Kaibab hydrology study : project 07-6-1424, Kaibab Indian Reservation, Arizona.* U.S. Economic Development Administration, Technical Assistance Project, 103 pp.

U.S. Bureau of Land Management

1980 21.3218 *Arizona Strip wilderness draft.* U.S. Department of the Interior, Bureau of Land Management, Arizona State Office, Phoenix, 115 pp.

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2003 21.7685 *America's priceless heritage: Cultural and fossil resources on public lands : Arizona.* [No place]: U.S. Bureau of Land Management, 10 pp.

U.S. Bureau of Land Management, AND U.S. National Park Service

NO DATE 21.8606 *Grand Canyon-Parashant National Monument, Arizona, Science Plan.* [No place]: U.S. Bureau of Land Management, and U.S. National Park Service, 68 pp. [\[2023.\]](#) [Includes sections on "Paleontology", "Soils/Geology", and "Water Resources".]

U.S. Bureau of Land Management; U.S. Forest Service; U.S. National Park Service; U.S. Fish and Wildlife Service; AND U.S. Geological Survey

2011 21.5626 *Northern Arizona proposed withdrawal : Final Environmental Impact Statement. October 2011.* [No place]: U.S. Bureau of Land Management, 2 volumes, SEPARATELY PAGINATED SECTIONS AND APPENDICES [1521 pp. total]. (BLM/AZ/PL-11/002.) [Regarding "the Secretary of the Interior's proposed 20-year withdrawal of approximately 1,006,545 acres of federal mineral estate in northern Arizona from the location and entry of new mining claims under the General Mining Law of 1872 (30 United States Code 22-54)."]

U.S. Bureau of Land Management, Abandoned Mine Land Task Force

1996 21.7684 *Abandoned mine land inventory and remediation : a status report to the Director.* [No place]: U.S. Bureau of Land Management, Abandoned Mine Land Task Force, SEPARATELY PAGINATED SECTIONS [60 pp. total]. (BLM/NV/GI-97/004.)

U.S. Bureau of Land Management, Arizona Strip Field Office

2008 21.7808 *Environmental Assessment EA-AZ-110-2008-009 : proposed right-of-way grant and plan of operations, Black Rock Gypsum Mine, Mohave County, Arizona,* SEPARATELY PAGINATED SECTIONS (57 pp. total).

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U.S. Bureau of Standards

- 1921 21.4911 War work of the Bureau of Standards. April 1, 1921. *U.S. Bureau of Standards, Miscellaneous Publication 46*, 299 pp. [See in "Chemical Investigations (Miscellaneous)" (SECTION), p. 66, regarding supposed platinum find at Grand Canyon.]
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U.S. Coast and Geodetic Survey

- _____ 21.7995 *United States Earthquakes.* [Monthly serial; also as *Seismological Report.*] [1928-1962, U.S. Department of Commerce, Coast and Geodetic Survey; 1963-1968, U.S. Department of Commerce, Environmental Science Services Administration, Coast and Geodetic Survey; 1970, National Geophysical Data Center; 1971-1972, U.S. National Geophysical and Solar-Terrestrial Data Center; 1973-1983, U.S. Department of Commerce, National Oceanic and Atmospheric Administration; 1984-, U.S. Department of the Interior, Geological Survey.] [Individual volumes are credited to editors.] [Not itemized in this bibliography.]
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U.S. Department of Agriculture, Natural Resources Conservation Service

- 2006 21.7567 Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific basin. *U.S. Department of Agriculture, Handbook 296*, 669 pp., maps. [See "Western Range and Irrigated Region", pp. 61-62; "35—Colorado Plateau", pp. 96-99.] [Also later updates as the same Handbook number.]
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U.S. Department of Energy, Legacy Management

- 2014 21.7874 *Defense-related uranium mines location and status topic report : final.* [No place]: U.S. Department of Energy, Legacy Management, SEPARATELY PAGINATED SECTIONS [252 pp. total]. (LMS/S10693.) [See p. A-4, "Grand Canyon Region". Brief.]

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U.S. Department of Energy, Office of Civilian Radioactive Waste Management

- 1984 21.6455 *Nuclear Waste Policy Act (Section 112) : Draft Environmental Assessment : Lavender Canyon site, Utah.* [No place]: U.S. Department of Energy, Office of Civilian Radioactive Waste Management, SEPARATELY PAGINATED SECTIONS. [See page 6-109, regarding incision rate of Colorado in Grand Canyon.]

U.S. Environmental Protection Agency, Office of Radiation and Indoor Air, Radiation Protection Division

- 1999 21.5046 *Technical report on technologically enhanced naturally occurring radioactive materials in the southwestern copper belt of Arizona.* Washington, D.C.: U.S. Environmental Protection Agency, Office of Radiation and Indoor Air, Radiation Protection Division, EPA 402-R-99-002, 103 pp. [See map, p. 15; and pp. 72, 75-78, 82-83.]
- 2008 21.7502 *Technical report on technologically enhanced naturally occurring radioactive materials from uranium mining. Volume 1: Mining and reclamation background.* Washington, D.C.: U.S. Environmental Protection Agency, Office of Radiation and Indoor Air, Radiation Protection Division, SEPARATELY PAGINATED SECTIONS [225 pp. total]. ("Previously published on-line and printed as Vol. 1 of EPA 402-R-05-007, January 2006; Updated June 2007 and printed april 2008 as EPA 402-R-08-005".) [Orphan Mine, Grand Canyon, see in Section 3 ("Volume and Characteristics of Uranium Mine Wastes", subsection "Potential for Water Contamination), p. 3-15, and in Appendix III ("Overview of Uranium Mines and *In Situ* Leach Operations Case Studies"), pp. AIII-1 to AIII-2.]

U.S. Environmental Protection Agency, Office of Solid Waste, Special Waste Branch

- 1995 21.7659 *Technical resource document : extraction and beneficiation of ores and minerals : Volume 5 : uranium.* Washington, D.C.: U.S. Environmental Protection Agency, Office of Solid Waste, Special Waste Branch, SEPARATELY PAGINATED SECTIONS [139 pp. total]. [See in main text: map (p. 9) and section 1.3.2.2, "Solution Breccia Pipes" (pp. 11-13).]

U.S. Geological Survey

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- 1880 21.3222 Forthcoming publications. *Uinkaret Plateau.* By Capt. C. E. Dutton. *U.S. Geological Survey, 1st Annual Report*, p. 74.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 79| |CITED» GCNHA Monograph 8: page 3-89|
- 1902 21.3223 *U.S. Geological Survey, 23rd Annual Report.* [See pp. 130, 154, 163.]
- 1903 21.3224 *U.S. Geological Survey, 24th Annual Report.* [See pp. 159, 172-173.]
- 1904 21.3225 *U.S. Geological Survey, 25th Annual Report.* [See pp. 200, 201.]
- 1905 21.3226 *U.S. Geological Survey, 26th Annual Report.* [See pp. 137-138.]

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- 1914 21.3227 *U.S. Geological Survey, 35th Annual Report.* [See p. 41.]
- 1915 21.3228 *U.S. Geological Survey, 36th Annual Report.* [See p. 56.]
- 1915 21.5468 [Abstract of "The Shinumo Quadrangle, Grand Canyon District, Arizona" by Levi F. Noble.] *Geologisches Zentralblatt*, 21(12) (1 February): 452. [Item credited to "G.S." (U.S. Geological Survey).] **[In German.]**
- 1916 21.3230 *U.S. Geological Survey, 37th Annual Report.* [See p. 52.]
- 1919 21.3231 *U.S. Geological Survey, 40th Annual Report.* [See p. 74.]
- 1922 21.3232 *U.S. Geological Survey, 43rd Annual Report.* [See pp. 23-24.]
- 1924 21.3233 *U.S. Geological Survey, 45th Annual Report.* [See pp. 28, 54.]
- 1925 21.3234 *U.S. Geological Survey, 46th Annual Report.* [See p. 31.]
- 1927 21.3235 *U.S. Geological Survey, 48th Annual Report.* [See p. 13.]
- 1928 21.3236 *U.S. Geological Survey, 49th Annual Report.* [See p. 11.]
- 1929 21.3237 *U.S. Geological Survey, 50th Annual Report.* [See pp. 12-13.]
- 1931 21.3238 *U.S. Geological Survey, 52nd Annual Report.* [See p. 14.]
- 1962 21.3239 Colorado Plateau region. *U.S. Geological Survey, Professional Paper 450-A*, pp. A37, A39.
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 2: page 79] [CITED» GCNHA Monograph 8: page 3-89]
- 1963 21.3240 Colorado Plateau, stratigraphy. *U.S. Geological Survey, Professional Paper 475-A*, p. A89.
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 2: page 79] [CITED» GCNHA Monograph 8: page 3-89]
- 1966 21.3241 Age range of Supai Formation. *U.S. Geological Survey, Professional Paper 550-A*, p. A82.
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 2: page 79] [CITED» GCNHA Monograph 8: page 3-89]
- 1967 21.3242 Age of lava dam in Grand Canyon. *U.S. Geological Survey, Professional Paper 575-A*, p. A85.
 ≡ CROSS-LISTINGS [CITED» GCNHA Monograph 2: page 79] [CITED» GCNHA Monograph 8: page 3-89]
- 1967 21.6671 Astronaut training. *In: Studies Related to Manned Lunar Exploration* [SECTION]. *U.S. Geological Survey, Professional Paper 575-A*, p. A134. ["Field exercises included trips to the Grand Canyon (E. D. McKee, leader) . . ." (ENTIRE NOTE)]

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- 1972 21.3243 Ground-water levels in the United States, 1966-70. Southwestern states. *U.S. Geological Survey, Water-Supply Paper 2010*, 106 pp.
 ≡ *CROSS-LISTINGS* | *CITED*» GCNHA Monograph 8: page 3-115]
- 1972 21.6901 Dating Precambrian rocks by paleomagnetism. *In*: Geological Survey research 1972; Chapter A. *U.S. Geological Survey, Professional Paper 800-A*, p. A100.
- 1977 21.6626 Multiple uranium-copper enrichment zones in breccia pipes. *In*: Geological Survey research 1977. *U.S. Geological Survey, Professional Paper 1050*, p. 32. [Studies conducted by C. G. Bowles.]
- 1978 21.5986 Reinterpretation of Grand Canyon geomorphology. *In*: Geological Survey research 1978. *U.S. Geological Survey, Professional Paper 1100*, p. 72.
- 1978 21.5987 Geology contributes to archaeology and climate studies in northeast Arizona. *In*: Geological Survey research 1978. *U.S. Geological Survey, Professional Paper 1100*, p. 268. [Includes note of Stanton's Cave, Marble Canyon.]
- 1979 21.3244 Chesterian channels discovered in western Grand Canyon, Arizona. *In*: Geological Survey research 1979. *U.S. Geological Survey, Professional Paper 1150*, p. 29.
 ≡ *CROSS-LISTINGS* | *CITED*» GCNHA Monograph 2: page 79| | *CITED*» GCNHA Monograph 8: page 3-89]
- 1979 21.6902 Paleomagnetic poles and polarity zonation in the Proterozoic Belt Supergroup. *In*: Geological Survey research 1979. *U.S. Geological Survey, Professional Paper 1150*, p. 167. [Includes Grand Canyon.]
- 1980 21.3245 Tectonism in the San Francisco volcanic field and southern Colorado Plateau, Arizona. *In*: Geological Survey research 1980. *U.S. Geological Survey, Professional Paper 1175*, p. 82.
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- 1984 21.7122 Mineral resource potential of the Marble Platform, Coconino County, Arizona. *In*: Geological Survey research, Fiscal Year 1981. *U.S. Geological Survey, Professional Paper 1375*, p. 3.
- 1981 21.5990 Paleomagnetic correlations of Proterozoic rocks. *In*: Geological Survey research 1981. *U.S. Geological Survey, Professional Paper 1275*, p. 139.
- 1991 21.3246 Basin characteristics and streamflow statistics in Arizona as of 1989. *U.S. Geological Survey Water-Resources Investigations Report 91-4041*, 615 pp.
- 1996 21.7255 *Field guide to the geology of the lower Grand Canyon-Lake Mead area: A structural transition : 7th Annual Science Teachers Workshop, October 3, 8, 12-14, 1996*. Flagstaff, Arizona: U.S. Geological Survey, [64] pp. [Comprises facsimile reproductions of, or selections from, several previously-published items, and several photographs.]

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U.S. Geological Survey; Arizona Bureau of Mines; AND U.S. Bureau of Reclamation

- 1969 21.3247 Mineral and water resources of Arizona (prepared at the request of Senator Carl Hayden and Senator Paul J. Fannin of Arizona, committee on Interior and Insular Affairs, United States Senate). *Arizona Bureau of Mines Bulletin 180*, 638 pp.
 ≡ CROSS-LISTINGS FQ7:Misc.23

U.S. Geological Survey, Arizona Water Science Center

- NO DATE 21.7367 *Rural watersheds investigations*. [Tucson]: U.S. Geological Survey, Arizona Water Science Center, 4 × 6-inch laminated information card. [*ca.* 2016.]
- NO DATE 21.7368 *Streamflow monitoring in Arizona*. [Tucson]: U.S. Geological Survey, Arizona Water Science Center, 4 × 6-inch laminated information card. [*ca.* 2016.]
- NO DATE 21.7369 *Uranium mining in the Grand Canyon region of Arizona*. [Tucson]: U.S. Geological Survey, Arizona Water Science Center, 4 × 6-inch laminated information card. [*ca.* 2016.]

U.S. National Academies of Sciences, Engineering, and Medicine

- 2021 21.8329 *America's Geoheritage II: Identifying, Developing, and Preserving America's Natural Legacy : proceedings of a workshop*. (Ester Szein and Paula Whitacre, rapporteurs.) Washington, D.C.: The National Academies Press, 47 pp. [Grand Canyon, see pp. 29-30, and "Box 5 Places of Myriad Meanings" (p. 32).]

U.S. National Academy of Sciences

- 1928 21.6510 Marsh Fund. *In: Report of the National Academy of Sciences : fiscal year 1926-1927*. Washington, D.C.: U.S. Government Printing Office, p. 21. [Grants awarded include: "November, 1926: A. A. Stoyanow, University of Arizona, Tucson, Ariz., \$150. Study of Paleozoic faunas of the Grand Canyon in Colorado [*sic.*"]; "November, 1926: G. E. Stredreant, Grand Canyon National Park, Ariz., \$150. Study of Paleozoic and pre-Cambrian faunas and formations of the Grand Canyon under direction of the committee of the section of geology and paleontology on research and educational use of outstanding features in earth history." (ENTIRE NOTE)]

U.S. National Aeronautics and Space Administration

- 2016 21.8067 Earth Observatory image of the month. "Grand Canyon Geology Lessons on View". *Rockvision* (Buletin SM IAGI Undip) (Universitas Diponegoro, Seksi Mahasiswa Ikatan Ahli Geologi Indonesia, Semarang, Indonesia), 22(3) (October): back cover. [Oblique space view, from the southeast, of eastern and central Grand Canyon and vicinity. From NASA Earth Observatory online.] [*In Indonesian.*]

U.S. National Aeronautics and Space Administration, Jet Propulsion Laboratory

- 2002 21.5272 "A perspective view of the Grand Canyon was generated from data gathered by the Advanced Spaceborne thermal Emission and Reflection Radiometer." *In: Year in review, 2001 : Jet Propulsion Laboratory*. U.S. National Aeronautics and Space

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Administration, Jet Propulsion Laboratory-California Institute of Technology, p. 18. (JPL 400-1007 3/02.) [Illustration and legend only. Instrumentation aboard NASA's Terra satellite.]

U.S. National Geodetic Survey

1987 21.3220 *Geodetic control data : NAD 83 coordinates for geodetic control diagram area : Marble Canyon : latitude N36°, longitude W110°and W111°. U.S. National Oceanic and Atmospheric Administration, National Ocean Service, Charting and Geodetic Services, 4 pp.*

U.S. National Museum

1892 21.5983 Specimens sent to the museum for examination and report during the year. *In: Annual report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures, and condition of the institution for the year ending June 30, 1891. [Part II.] Report of the U.S. National Museum. Washington, D.C.: U.S. Government Printing Office, p. 43 and following. [See p. 45: "Cameron, Miles T., Flagstaff, Ariz.: Specimen of mineral found in the Grand Cañon of the Colorado." (ENTIRE NOTE) Item not retained in the collections.]*

1905 21.5817 Appendix II. List of accessions, 1902-3. *From: Report of the U. S. National Museum, under the direction of the Smithsonian Institution, for the year ending June 30, 1903. In: Annual report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures, and condition of the institution for the year ending June 30, 1903. Report of the U. S. National Museum. Washington, D.C.: U.S. Government Printing Office, pp. 95-. [See p. 139: "Walcott, Hon. C. D. . . . specimen of Middle Carboniferous sandstone slab with reptile tracks, collected on the Grand View trail, Grand Cañon, Arizona, by Mr. Walcott (41094)."]*

U.S. National Park Service, Cave and Karst Program

NO DATE 21.4694 *Caves and karst in the U.S. National Park Service : nationwide. U.S. National Park Service, 1 sheet. [Poster. Includes Rampart Cave, with illustration.]*

U.S. National Park Service, Grand Canyon National Park

NO DATE 21.4558 *Trail of Time walking guide. U.S. National Park Service, Grand Canyon National Park, folded brochure. [Ca. 2008.]*

NO DATE 21.5440 *Trail of Time walking guide. U.S. National Park Service, Grand Canyon National Park, rack card.*

NO DATE 21.5436 *Geology of the Tuweep area. U.S. National Park Service, Grand Canyon National Park, folded brochure. [2011.]*

NO DATE 21.7939 [Fossil trading cards.] U.S. National Park Service, Grand Canyon National Park, 9 cards. [2019.] [Set of 9 numbered cards illustrating Grand Canyon fossils, with explanatory text on verso with QR code to allow users with smart phones to access an interactive 3D model. Produced and distributed to commemorate National Fossil Day 2019; issued in plastic snap-lid container.] [Cards: 1) "Tetrapod Trackway"

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(*Ichniotherium sphaerodactylum*, Permian Coconino Sandstone); 2) "Shasta Ground Sloth" (*Nothrotherium shastensis*, Ice Age cave deposits); 3) "Dragonfly Wing" (*Typus whitei*, Permian Hermit Formation); 4) "Trilobite" (*Dolichotetopus productus*, Cambrian Bright Angel Shale); 5) "Stromatolite" (*Collenia*, Precambrian Grand Canyon Supergroup), 6) "Seed Fern" (*Pteridospermaphyta*, Permian Hermit Formation); 7) "Brachiopods" (*Peniculauris bassi*, Permian Kaibab Limestone); 8) "Burrows" (*Scoyenia gracilis*, Permian Hermit Formation); 9) "Crinoid Columnal" (Crinoidea, Mississippian Redwall Formation).]

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Vander Vis, T.; Porter, R. C.; AND Macy, J. P.

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| 2016 | 21.7659 | Electromagnetic analysis of groundwater on the Arizona-Utah border [ABSTRACT]. <i>American Geophysical Union, Fall Meeting 2016</i> , abstract NS41B-1909. |
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Vanderbilt, Tom

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Vandercook, A. E.

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VanDeWeg, Riley, AND Callahan, Caitlin

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Vandiver, Vincent W.

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| 1937 | 21.6640 | Pipe Spring National Monument. <i>In: The Supplement</i> [SECTION]. <i>Southwestern Monuments Monthly Report</i> (U.S. National Park Service), (February): 111-122. [History, geography, geology (stratigraphy), botany (including species list), and |
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animals (common-name lists for birds, “animals” [mammals], and reptiles), Native Americans.]

Vanek, Juraj; Beneš, Bedřich; Herout, Adam; AND Šťava, Ondřej

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- 2013 21.5971 Interactive simulation of hydraulic erosion on the GPU. *GPU Technology Conference 2013, March 18-21, 2013, San Jose, California*, 1 p. [poster]. [Graphics Processing Unit. Includes Grand Canyon terrain model.]

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- 2003 *21.7477* [Remarks.] *From*: Grand Canyon; the water [SECTION]. *In*: Vail, Tom, *Grand Canyon : a different view*. Green Forest, Arkansas: Master Books, p. 60.
- 2018 *21.7478* [Remarks.] *From*: Grand Canyon; the water [SECTION]. *In*: 湯姆 韦尔 [Vail, Tom], 大峡谷 : 一个非凡的视野 [Dà xiágǔ : yīgè fēifán de shìyě] [*Grand Canyon : an extraordinary vision*]. Green Forest, Arkansas: Master Books, p. 60. [In the translation of Vail’s (2003) *Grand Canyon : a different view*.] [*In Chinese*.]

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Vardiman, Larry; Snelling, Andrew A.; AND Chaffin, Eugene F.

- 2000 *21.6062* (EDS.) *Radioisotopes and the age of the earth : a young-earth creationist research initiative*. El Cajon, California: Institute for Creation Research, and St. Joseph, Missouri: Creation Research Society, 676 [677] pp.

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- 1963 21.3289 A downslope trackway in the De Chelly sandstone, Permian of Monument Valley. *Plateau*, 36(1) (Summer): 25-28. [Notes comparison to Coconino Sandstone trackways.]

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- 2006 21.4489 Geologinio kartografavimo praktika šiaurės Amerikoje. Geological mapping practice in North America. *Geologijos Akiračiai* (Lietuvos Geologų Sąjungos, Žurnalas) (Lietuvos Geologų Sąjunga [*Lithuanian Geologists Union*]), 2006(2): 55-60. [Includes Grand Canyon.] [*In Lithuanian; with bilingual title and abstract.*]

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- 1989 21.3290 Upper Proterozoic microfossils from the Infra Krol sediments, Nainital synform, Kumaon Himalaya, India. *In*: Jain, K. P., and Tiwari, R. S. (eds.), Proceedings on the symposium on Vistas in Indian Palaeobotany. *Palaeobotanist*, 38: 29-38. [See p. 35.]
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- 2004 21.4605 Biomarker analysis of solvent extractable organic matter from the late Neoproterozoic Kwagunt Formation, Chuar Group (~800-742 Ma), Grand Canyon [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 36(5): 170.

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- 2013 21.5929 Data compiled by the Smithsonian about volcanoes in the southwestern United States [ABSTRACT]. *In*: Lowenstern, Jacob B. (ed.), Abstracts for the October 2012 meeting on Volcanism in the American Southwest, Flagstaff, Arizona. *U.S. Geological Survey, Open-File Report 2013-1026*, [unpaginated].

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- 1988 21.3295 Structural evolution of a Grand Canyon breccia pipe: The Ridenour copper-vanadium-uranium mine, Hualapai Indian Reservation, Coconino County, Arizona. *U.S. Geological Survey, Open-File Report 88-006*, 75 pp.
 ≡ *CROSS-LISTINGS* [CITED» GCNHA Monograph 8: page 3-90]

Verdel, Charles; Niemi, Nathan A.; AND Pluijm, Ben A. van der

- 2011 21.7093 Variations in the illite to muscovite transition related to metamorphic conditions and detrital muscovite content: Insight from the Paleozoic passive margin of the southwestern United States. *Journal of Geology*, 119: 419-437. [Includes Grand Canyon.]

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- 2010 21.6551 Empirical test of an illite/muscovite ⁴⁰Ar/³⁹Ar thermochronometer [ABSTRACT]. *American Geophysical Union, 2010 Fall Meeting, San Francisco, California, 13-17 December*, Abstract V41B-2282. [Middle Cambrian Bright Angel Shale of Grand Canyon and laterally equivalent Carrara Formation of Death Valley.]

Verrealut-Julien, Philippe

- 2019 *21.8601* *Understanding with models : hoe modellen onze de wereld helpen begrijpen* [how models help us understand the world]. Doctoral dissertation, Erasmus University (Rotterdam), 220 [221] pp. [See in section "4.6 Broad KnUn"; specifically, pp. 100-103, which discusses the contexts of the formation of the Grand Canyon as explained by young-earth creationists by one short-lived, massive flood. See also note on p. 127 regarding the falsification of the young-earth position.] [KnUn = "knowledge account of understanding".] [In English; subtitle in Dutch.]

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Veselovskiy, Roman Vitalyovich [Веселовский, Роман Витальевич]

- 2006 21.4812 *Палеомагнетизм Мезопротерозойских и Пермо-Триасовых пород Сибирской Платформы: Палеотектонический и геомагнитный следствия. [Paleomagnetizm Mezoproterozoiskikh i Permo-Triasovykh porod Sibirskoi Platformy: Paleotektonicheskiy i geomagnitnyy sledstviya]. [Paleomagnetism of the Mesoproterozoic and Permo-Triassic rocks of the Siberian Platform: Paleotectonic and geomagnetic effects.]* Dissertation, Candidate of Geological and Mineralogical Sciences, [Moscow State University?], 186 pp. [In Russian.]

Victor, Bill

- 2006 21.4184 Where does *that* water come from? *The Waiting List* (Grand Canyon Private Boaters Association), 7(4) (Winter): 34-35. [Ground water and springs in Grand Canyon.]

Vidal, Gonzalo

- 1974 21.3296 Late Precambrian microfossils from the basal sandstone unit of the Vissingsö beds, South Sweden. *Geologica et Palaeontologica*, 8: 1-13.
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- 1983 21.3297 The oldest eukaryotic cells. *Scientific American*, 250(2): 48-57. [See p. 56.]
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- 1986 21.3298 Acritarch-based biostratigraphic correlations and the upper Proterozoic in Scandinavia, Greenland, and North America [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 18(5): 420.
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Vidal, Gonzalo, AND Ford, Trevor D.

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 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 8: page 3-90|

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- 1983 21.6410 Proterozoic plankton. *In*: Medaris, L. G., Jr., Byers, C. W., Mickelson, D. M., and Shanks, W. C. (eds.), Proterozoic geology: Selected papers from an international Proterozoic symposium. *Geological Society of America, Memoir 161*, pp. 265-278.

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- 1993 21.3301 Biostratigraphical implications of a *Chuarina-Tawuia* assemblage and associated acritarchs from the Neoproterozoic of Yakutia. *Palaeontology*, 36(Part 2) (July): 387-402.

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Visscher, H.; Kerp, J. H. F.; AND Clement-Westerhof, J. A.

- 1986 21.8600 Aspects of Permian palaeobotany and palynology. VI. Towards a flexible system of naming Palaeozoic conifers. *Acta Botanica Neerlandica*, 35(2) (May): 87-99. [See particularly "7. The Form-Genus *Hermitia*" (pp. 96-98), which includes Form-genus *Hermitia* Kerp et Clement-Westerhof, new genus; type-species *Hermitia dawsonii* (White 1929) Kerp et Clement-Westerhof, new combination (which was named by White from the Grand Canyon Hermit Shale); lectotype of *Hermitia dawsonii* designated.]

Vitte, Antonio Carlos, AND Ferraz, Maira Kahl

- 2016 21.8137 A pintura de paisagem e a formação da ciência geomorfológica nos Estados Unidos no século XIX. *Revista Brasileira de Geografia* (Fundação Instituto Brasileiro de Geografia e Estatística, Rio de Janeiro), 61(2) (July/December): 35-47. [See "As contribuições de Thomas Moran nas expedições de John Wesley Powell" (pp. 41-46).] **[In Portuguese; with abstract also in English.]**

Vogel, Irene D.

- 1977 21.4458 *Bryozoans of the Toroweap Formation, Dry Lake Range and North Muddy Mountains, Clark County, Nevada*. Master's thesis, Eastern Washington University, 75 pp.

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Voigt, Sebastian

- 2005 21.6910 *Die Tetrapodenichnofauna des kontinentalen Oberkarbon und Perm im Thüringer Wald—Ichnotaxonomie, Paläoökologie und Biostratigraphie*. Göttingen: Cuvillier Verlag, 299 pp. (Doctoral dissertation, Martin-Luther-Universität Halle-Wittenberg, 2004.) [Under *Batrachichnus* Woodworth, 1900, includes remark on *B. delicatulus* (Lull) from the Hermit Shale of Grand Canyon (p. 68). Under *Amphisauropus kablikae* (Geinitz and Deichmüller, 1882, n. comb., includes remark on *Gilmoreichnus* (*Hylopus*) *hermitanus* (Gilmore) from the Hermit Shale of Grand Canyon (pp. 84, 86). Under *Varanopus* Moodie, 1929, includes remarks on *Gilmoreichnus* = *Hylopus hermitanus* (Gilmore) from the Hermit Shale of Grand Canyon (pp. 110, 112). Under *Dromopus* Marsh, 1894, includes remark on ichnofauna of the Coconino Sandstone of Grand Canyon (p. 118). Under "Ichnia tetrapodorum indet." includes remarks on Coconino Sandstone ichnofauna, p. 135. Also see note of Hermit Shale in Grand Canyon, p. 151.] **[In German.]**

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- 2011 21.7981 Revisional notes on the Permian tetrapod ichnofauna from the Tiddas Basin, central Morocco. *Paleogeography, Palaeoclimatology, Palaeoecology*, 302: 474-483. [See p. 481, correlation with Grand Canyon late Early Permian strata.]

Voigt, Sebastian; Small, Bryan J.; AND Sanders, Frank

- 2005 21.6909 A diverse terrestrial ichnofauna from the Maroon Formation (Pennsylvanian-Permian), Colorado: Biostratigraphic and paleoecological significance. *In*: Lucas, Spencer G., and Zeigler, Kate E. (eds.), *The nonmarine Permian. New Mexico Museum of Natural History and Science, Bulletin 30*, pp. 342-351. [A discussion of specimens of *Varanopus* sp. includes comparison to *Hyloidichnus* Gilmore from Grand Canyon, and the note, "The holotype of *Gilmoreichnus* = *Hylopus hermitanus* Gilmore, 1927, also from the Hermit Shale from the Grand Canyon, is probably a *Varanopus* trackway (cf. Voigt, 2004 [ITEM NO. 21.6910])."]

Vokes, H. E.

- 1941 21.3302 *How old is the earth? Science answers the question.* New York: American Museum of Natural History, new ed., 25 pp. (Guide Leaflet Series No. 75, New Edition.) [See frontispiece, pp. 4, 7-12.]

Villa, Elisa

- 1998 21.7083 Cinco maravillas geológicas; recuerdos del viaje al oeste de Norteamérica. *In*: Parques Nacionales U.S.A. [FEATURE]. *Vetusta* (Grupo de Montañeros Vetusta, Oviedo, Spain), (58) (November): 15-17. [See "La Discordancia del Gran Cañon", pp. 15-16.] [In Spanish.]

Vondra, Carl F.

- 1996 21.3303 The Iowa State University geology field course; a low cost, quality student experience [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 28(7): 203.

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Voyles, Kyle D.

- 2005 21.6311 Grand Canyon-Parashant National Monument. *Inside Earth* (U.S. National Park Service, Kave and Karst Programs), 8(1) (Spring): 7.

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Voyles, Kyle D., AND Wynne, J. Judson

- 2006 21.4214 Systematic inventory and survey of the caves in Grand Canyon-Parashant National Monument, Arizona [ABSTRACT]. *In*: Abstracts from the 2006 National Speleological Society Convention, Bellingham, Washington. *Journal of Cave and Karst Studies*, (December): 167. [Wynne's given name misspelled as "Juson".]

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- 1903 21.4405 Topographic survey of the United States. *American Geographical Society, Bulletin*, 35(5): 477-481. [See p. 480, Grand Canyon.]

W., W. W.

- 1896 21.4878 Recent work of the Geological Survey of the United States. II. *Nature* (London), 53(1377) (March 19): 462-467.

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- 2018 21.7633 Mining in the Grand Canyon watershed and the implications on the quality of water sources [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 50(6): doi:10.1130/abs/2018AM-323830.

Waesche, Hugh H.

- 1931 21.3304 Blue ribbon minerals. *Grand Canyon Nature Notes*, 5(10) (August): cover, 95-98.
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 2: page 80](#) | [CITED» GCNHA Monograph 8: page 3-90](#)
- 1932 21.3305 Comparative porosity of rock formations in Grand Canyon. *Grand Canyon Nature Notes*, 6(4) (February): 35-37.
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- 1933 21.3307 The Anita copper mine. *Grand Canyon Nature Notes*, 7(11) (February): 108-112.
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- 1933 21.3308 The feldspars of Phantom Ranch area. *Grand Canyon Nature Notes*, 8(6) (September): 188-190. ("This work was done in the laboratory of the Virginia Polytechnic Institute, Blacksburg, Va.")
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- 1934 21.3309 The Grand View copper project. *Grand Canyon Nature Notes*, 8(12) (March): cover, 250-258. ("Data obtained largely from Mr. P. D. Berry in July, 1932[.] Mr. Berry was then quite ill, and the material was given in a rather disconnected manner. Grandview Copper mine was visited by the writer in July, 1932.")
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- 1994 21.3310 A summary of Grand Canyon minerals. *In*: Lamb, Susan (ed.), *The best of Grand Canyon Nature Notes*. Grand Canyon, Arizona: Grand Canyon Natural History Association, pp. 18-19. [Reprinted from *Grand Canyon Nature Notes*, August, 1932.]

Wagner, Oscar Emil, Jr.

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Wagner, Stacy S. *see also* Timmons, Stacy

- 2002 21.4741 *A geology training manual for Grand Canyon National Park*. Master's thesis, Oregon State University, 184 pp.

Wahl, Roland; Massing, Manuel; Degener, Patrick; Guth, Michael; AND Klein, Reinhard

- 2004 21.5642 Scalable compression and rendering of textured terrain data. *Journal of WSCG*, 12(1/3):. (WSCG'2004, February 2-6, 2004, Plzen, Czech Republic.) [Winter School of Computer Graphics (later, International Conferences in Central Europe on Computer Graphics, Visualization and Computer Vision).] [Includes Grand Canyon terrain model.]

Wahl, William H.

- 1874 21.5262 (ED.) Patents, arts, and science [SECTION]. *American Exchange and Review*, 25(4) (June): 244-251. [See pp. 244-246, report of a recent meeting of the National

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Academy of Science in Washington, D.C.; specifically, pp. 244-245, brief notice of a presentation by John Wesley Powell on the canyons of the Colorado River.]

Wahlin, George W.

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- 1971 21.3357 Carbonate tidal flats of the Grand Canyon Cambrian [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 3: 743.

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- 1973 21.3358 *Cambrian of the Grand Canyon : a re-evaluation of the depositional environment.* Doctoral dissertation, Johns Hopkins University.
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- 1975 21.3360 Carbonate tidal flats of the Grand Canyon Cambrian. *In: Ginsburg, R. N. (ed.), Tidal deposits : a casebook of recent examples and fossil counterparts.* New York: Springer-Verlag, pp. 269-277.
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- 1981 21.3361 Environments and dynamics of clastic sediment dispersal across Cambrian of Grand Canyon [ABSTRACT]. *American Association of Petroleum Geologists, Bulletin*, 65: 1004-1005.
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- 1991 21.7239 Observational foundation for sequence modeling. *In: Franseen, Evan K., Watney, W. Lynn, St. Kendall, Christopher G., and Ross, William (eds.), Sedimentary modeling: Computer simulations and methods for improved parameter definition. Kansas Geological Survey, Bulletin 233*, pp. 44-62. [Sedimentary sequences and facies patterns of sedimentary cycles. Includes Grand Canyon.]

Wanless, Harold R., AND Merrill, William M.

- 1951 21.3362 Evidence of eustatic change in sea level in the Pennsylvanian of the southwestern United States [ABSTRACT]. *Geological Society of America, Bulletin*, 62: 1487.
 ≡ CROSS-LISTINGS |CITED» GCNHA Monograph 2: page 81| |CITED» GCNHA Monograph 8: page 3-92|

Wanless, Harold R., AND Patterson, Jacquelyne

- 1952 21.3363 Cyclic sedimentation in the marine Pennsylvanian of the southwestern United States. *Troisième Congrès pour l'Avancement des Études de Stratigraphie et de Géologie du Carbonifère. Heerlen, 25-30 Juin 1951. Compte Rendu*, 1: 655-664.
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Ward, Dylan J.

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Ward, Dylan J., AND Sheehan, Christopher E.

- 2016 21.7068 Cliff retreat dynamics modulate signals of base-level change in layered rocks, Colorado Plateau, USA [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 48(7): Paper 6-4, doi:10.1130/abs/2016AM-287046. [Notes Grand Canyon but study conducted at a "natural experiment site in Utah."]

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Ward, Lester F.

- 1889 21.5618 The geographical distribution of fossil plants. *In: U.S. Geological Survey, 8th Annual Report*, pp. 663-931, plates, map. [See p. 917, brief references to *Cruziana linnarssoni* and *C. rustica* noted by C. A. White in Grand Canyon Cambrian strata; and also passing notice (pp. 917-918) of "C. D. Walcott, who also collected much silicified wood in the Grand Cañon district".]
- 1901 21.3364 Geology of the Little Colorado Valley. *American Journal of Science*, Series 4, 12: 401-413.
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- 1903 21.5609 *Pure sociology : a treatise on the origin and spontaneous development of society*. New York: Macmillan Co., and London: Macmillan and Co., Ltd., 607 pp. [See pp. 38-40, extended *note 2*, beginning with a specific note of the ages of Grand Canyon strata, which introduce the author's discourse on geologic time and graphical "Dial of the Cosmic Day—Age of the Earth", the ages of the earth condensed to 24 hours.]
- 1905 21.3365 (WITH W. M. Fontaine, A. Bibbins, and G. R. Wieland) Status of the Mesozoic floras of the United States, second paper. *U.S. Geological Survey, Monograph 48*, 2 volumes; Part 1, Text, 616 pp. [see p. 16 and following]; Part 2, Plates, 129 plates.
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Wardlaw, B. R., AND Collinson, J. W.

- 1977 21.3366 Biostratigraphic zonation of the Park City Group. *U.S. Geological Survey, Open-File Report 77-853*, 15 pp.
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- 1979 21.3368 Biostratigraphic zonation of the Park City Group. *In: Studies of the Permian Phosphoria Formation and related rocks, Great Basin-Rocky Mountain region. U.S. Geological Survey, Professional Paper 1163-D*, pp. 17-22.
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Wardlaw, B. R.; Collinson, J. W.; AND Maughan, E. K.

- 1979 21.3369 Stratigraphy of Park City Group equivalents (Permian) in southern Idaho, northeastern Nevada, and northwestern Utah. *In: Studies of the Permian Phosphoria Formation and related rocks, Great Basin-Rocky Mountain region. U.S. Geological Survey, Professional Paper 1163-C*, pp. 9-16.
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Ward’s Natural Science Establishment

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| NO DATE | 21.5809 | <i>Grand Canyon relief model kit.</i> Monterey, California: Ward’s Natural Science Establishment, Inc. [Description of this kit is in Choncoff (1976, ITEM NO. 1.281): “Ten relief models of a square area nine miles on a side, with the Canyon running through the center at a scale of 2” for 1 mile with a 20% vertical exaggeration. Models vacuum formed of unbreakable beige plastic and measuring 18” × 18” × 4”. Kit includes: geological map of Canyon, 20 sets of four 1” × 1” rock specimens, set of 27 color slides, student project work sheets, manual.”] |
| NO DATE | 21.5810 | <i>Abridged Grand Canyon model set.</i> Monterey, California: Ward’s Natural Science Establishment, Inc. [Description of this set is in Choncoff (1976, ITEM NO. 1.281): “Contains 5 of the Grand Canyon relief models and the geologic map.” (refer to the relief model kit [Ward’s Natural Science Establishment, no date, ITEM NO. 21.5809]).] |
| 1891 | 21.5190 | <i>Catalogue of geology and lithology.</i> <i>Ward’s Natural Science Establishment, Rochester, N. Y.</i> [No place]: Robert W. Lace, book and job printer, 48 [52] pp. [Wrapper title.] [Title-page: <i>Catalogue of systematic collections and individual specimens of geology and lithology. (Second edition.)</i>] [See illustration, p. 12; “No. 8. Relief Map of the Grand Canon of the Colorado of the West, and the Cliffs of Southern Utah.”, p. 13 (not illustrated); and illustration, back wrapper.] |
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Ware, John

- | | | |
|------|---------|---|
| 2019 | 21.7870 | Stanton’s Cave: Another important Grand Canyon anniversary. <i>Boatman’s Quarterly Review</i> , 32(3) (Fall): 9-11. [50th anniversary of the Stanton’s Cave archaeological and paleobiological expedition under Robert C. Euler and Bruce Harrill.] |
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Waring, Gerald A.; Blankenship, Reginald R.; AND Bentall, Ray

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| 1965 | 21.6345 | Thermal springs of the United States and other countries of the world—a summary. By Gerald A. Waring; revised by Reginald R. Blankenship and Ray Bentall. <i>U.S. Geological Survey, Professional Paper 492</i> , 383 pp. [See p. 19, nos. 1, 3, Grand Canyon area; and map, p. 12.] |
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Waring, Gwendolyn L.

- | | | |
|------|---------|--|
| 2018 | 21.7683 | <i>The natural history of the San Francisco Peaks : a sky island of the American Southwest.</i> [No place]: Gwendolyn L. Waring, 205 pp., 16 pp. color plates. [Regional perspective and notes include Grand Canyon area.] |
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Warme, John E.

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| 2004 | 21.4606 | Pancho’s radical runup: Unusual ancient Grand Canyon landslide, Colorado River, Arizona [ABSTRACT]. <i>Geological Society of America, Abstracts with Programs</i> , 36(5): 551. |
| 2014 | 21.6496 | Pancho’s radical runup: Event scenario [ABSTRACT]. <i>Geological Society of America, Abstracts with Programs</i> , 46(6): 252. |

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Warne, John E.; Herring, Alan; Darling, Andy [Darling, Andrew L.]; **Crow, Ryan S.; Karlstrom, Karl E.; Crossey, Laura J.; Granger, Darryl; Huntoon, Peter; AND Savage, Jill**

2012 21.5799 Pancho's Radical Runup: New insights into an unusual Grand Canyon landslide [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 44(6): 81.

Warneke, Nadine Lynne

2015 21.7135 *Timing of erosional episodes in the Marble Canyon and Vermilion Cliffs region from apatite (U-Th)/He thermochronology*. Master's thesis, University of New Mexico, 61 pp.

Warneke, Nadine Lynne; Lee, John P.; Kelley, Shari A.; Stockli, Daniel F.; Karlstrom, Karl E.; AND Fox, Matthew

2013 21.6182 Low-temperature thermochronometric constraints on retreat of the Vermilion [*sic*] Cliffs and carving of Marble Canyon [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 45(7): 482. [Vermilion Cliffs.]

Warner, Lawrence A.

1975 21.3370 The Colorado Lineament; a Precambrian San Andreas type fault system [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 7: 1312.
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 ≡ [CROSS-LISTINGS](#) [[CITED» GCNHA Monograph 2: page 82](#)] [[CITED» GCNHA Monograph 8: page 3-92](#)]

Washburn, Bradford

1983 21.3373 Resurvey of the heart of the Grand Canyon, 1971-1978. *In*: Oehser, Paul H. (ed.), *et al.*, On research and exploration projects supported by the National Geographic Society, for which an initial grant or continuing support was provided in the year 1971, 1973, or 1974. *National Geographic Society, Research Reports*, 15: 1-34 (and frontispiece). [Mapping project refers to maps published as National Geographic Society, Cartographic Division (1978, [ITEM NOS.](#) 24.145, 24.357).]
 ≡ [CROSS-LISTINGS](#) [[CITED» GCNHA Monograph 8: page 3-92](#)]

Wasser, Miriam

2018 21.8523 Will Trump dump on Grand Canyon? Experts say risk of uranium mining not worth reward. *Phoenix New Times* (Phoenix), (January 11):.

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Wasserburg, Gerald J., AND Lanphere, Marvin A.

- 1965 21.3374 Age determinations in the Precambrian of Arizona and Nevada. *Geological Society of America, Bulletin*, 76: 735-757.
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Waters, Jeffrey Phillip

- 1988 21.4279 *A geophysical and geochemical investigation of selected collapse features on the Coconino Plateau in northern Arizona.* Master's thesis, Northern Arizona University, 112 pp.

Waters, Jeffrey P., AND Best, David M.

- 1986 21.3375 Determination of subsurface morphology of collapse features on the Kaibab Plateau, northern Arizona, using gravity surveys [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 18(5): 420.
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Watkins, Conor

- 2005 21.4077 In reference to "Lake What-a-hugee?" by Jon Hirsh in BQR 17:4. *In*: Dear Eddy [SECTION]. *Boatman's Quarterly Review*, 18(2) (Summer): 5. [Name is given as "Lake What-a-huge-e" in the original.]
- 2005 21.4149 Analysis of composite megalandslides in the Colorado River corridor, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 37(7): 110.

Watkins, Conor M., AND Rogers, J. David

- 2004 21.4607 Landsliding and channel diversion at Fishtail Canyon, Grand Canyon, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 36(5): 514.
- 2007 21.4334 Overconsolidated shales and their role in triggering megalandslides in the Grand Canyon shales [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 39(6): 439.
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Watkins, T. H.

- 1992 21.3377 Park prospects. *Wilderness*, 55(197) (Summer): 18. [Mining prospects in Grand Canyon; article signed "T.H.W."]
 ≡ [CROSS-LISTINGS](#) | [CITED» GCNHA Monograph 8: page 3-115](#)
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Watkins, Thomas A.

- 1975 21.3376 *The geology of the Copper House, Copper Mountain, and Parashant breccia pipes, western Grand Canyon, Mohave County, Arizona.* Master's thesis, Colorado School of Mines, 91 pp.
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- 1909 21.6232 *Prehistoric Siskiyou Island and marble halls of Oregon.* [No place]: C. B. Watson, 147 pp. [Regarding “cretaceous deposits” [*i.e.*, calcareous deposits], see p. 62: “Such deposits may now be seen along the line of the Grand canyon of the Colorado that were once at the bed of the sea and have been elevated and crumpled in the course of the contraction of the earth; cross sections are exhibited where the stream has cut through them making it possible to measure the depth of the deposits. This great natural wonder has been most delightfully explained and described by Captain C. E. Dutton of the United States Geological department.” [*sic*] (ENTIRE NOTE)]
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Watson, Richard A.

- 1966 21.5732 Is geology different: A critical discussion of “The Fabric of Geology”. *Philosophy of Science*, 33(1/2) (March/June): 172-185. [Re: Claude C. Albritton, Jr., ed., *The Fabric of Geology* (Freeman, Cooper and Co., San Francisco, 1963), 374 pp.]
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Watt, Arthur D.

- 1970 21.3378 Catalog of the illustrated Paleozoic plant specimens in the National Museum of Natural History. *Smithsonian Contributions to Paleobiology*, (5), 53 pp.
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Watts, E. H.

- 2018 *21.7540* *The Grand Canyon formed 2,345 years B.C.E. by a sequence of five catastrophic events : the Watts theory.* United States of America: E. H. Watts, 68 pp. [An on-demand publication.] [Creationist perspective.]
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- 1995 21.6861 Flood control and floodplain planning for the Havasupai Indian Reservation. *In:* Integrated Water Resources Planning for the 21st Century. *American Society of Civil Engineers, Water Resources Planning and Management Division, 22nd annual meeting, 7-11 May 1995, Cambridge, Massachusetts*, pp. 763-766.
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Wawrzyniec, Timothy F., AND Magill, R. Charlie

- 2011 21.5569 A transcurrent emplacement model for the Crested Butte laccolith and associated strain transfer from the Rio Grande Rift to the Uinta Arch, southern Rocky Mountains, USA [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 43(5): 201.
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- 2006 21.5667 Wrinkle rendering of terrain models in Chinese landscape painting. *IEICE Transactions on Information and Systems*, E89-D(3) (March): 1238-1248. [Includes Grand Canyon terrain model.] [Institute of Electronics, Information and Communication Engineers.]
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Weaver, Charles E.

- 1955 21.3379 Invertebrate paleontology and historical geology from 1850 to 1950. *In*: Kessel, Edward L. (ed.), *A century of progress in the natural sciences, 1853-1953 : published in celebration of the centennial of the California Academy of Sciences*. San Francisco: California Academy of Sciences, pp. 689-745. [See p. 717.]
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Webb, Robert H.

- 1986 21.7238 Spatial and temporal distribution of radiocarbon ages on rodent middens from the southwestern United States. *Radiocarbon*, 28(1): 1-8.

Webb, Robert H., AND Betancourt, Julio L.

- 1990 21.3380 The spatial and temporal distribution of radiocarbon ages from packrat middens. *In*: Betancourt, Julio L., Van Devender, Thomas R., and Martin, Paul S. (eds.), *Packrat middens : the last 40,000 years of biotic change*. Tucson: University of Arizona Press, pp. 85-102.
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Webb, Robert H., AND Hereford, Richard

- 2003 21.4856 Comparative landscape photographs of the Lonely Dell area and the mouth of the Paria River. Pamphlet to accompany "Map showing Quaternary geology and geomorphology of the Lonely Dell reach of the Paria River, Lees Ferry, Arizona", *U.S. Geological Survey, Geologic Investigations Series, I-2771*, 21 pp. [Map is Hereford (2003, [ITEM NO.](#) 24.236).]

Webb, Robert H.; Boyer, Diane E.; AND Turner, Raymond M.

- 2010 21.6414 (EDS.) *Repeat photography : methods and applications in the natural sciences*. Washington, D.C., Covelo (California), and London: Island Press, 337 [339] pp.

Webb, Robert H.; Griffiths, Peter G.; AND Klearman, Tillie A.

- 2003 21.4364 Frequency of debris flows in Grand Canyon. *U.S. Geological Survey, Fact Sheet 065-03*, 4 pp.

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- 2008 21.4295 Holocene debris flows on the Colorado Plateau: The influence of clay mineralogy and chemistry. *Geological Society of America, Bulletin*, 120(7/8) (July/August): 1010-1020 + Data Repository item 2008024 ("Data describing fine-grained sedimentary rocks and Holocene debris flows on the Colorado Plateau"), 25 pp.

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- 2002 21.3779 Observations of environmental change in Grand Canyon, Arizona. *U.S. Geological Survey, Water-Resources Investigations Report 02-4080*, 33 pp.

Webb, Robert H.; Smith, Spence S.; AND McCord, V. Alexander S.

- 1992 21.5522 Historic channel change of Kanab Creek, southern Utah and northern Arizona; 1991. *Grand Canyon Natural History Association, Monograph 9*, 91 pp.
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 FQ12:487 FQ12B:206 FQ13:488 FQ15:532 FQ17:515 FQ18:410 FQ20:452
 FQ21:265 FQ22:392 FQ24/2:940 FQ27:222 FQ28:178

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- 2010 21.6415 Introduction: A brief history of repeat photography. *In: Webb, Robert H., Boyer, Diane E., and Turner, Raymond M. (eds.), Repeat photography : methods and applications in the natural sciences.* Washington, D.C., Covelo (California), and London: Island Press, pp. 3-11.

Webb, Thompson, III; Street, F. Alayne; AND Howe, Sally

- 1980 21.4778 *Precipitation and lake-level changes in the West and Midwest over the past 10,000 to 24,000 years.* University of California, Lawrence Livermore National Laboratory, report UCRL-15173, 102 pp.

Weber, Christopher Gregory

- 1980 *21.3898* Common creationist attacks on geology. *Creation/Evolution*, (2) (Fall): 10-25.

Weber, Michael E., AND Hardy, J. Kirk

- 1986 21.8083 Tertiary extension and lower-Paleozoic facies distributions in the Lake Mead area, Clark County, Nevada [ABSTRACT]. *Arizona-Nevada Academy of Science, Journal*, 21(1986 Proceedings Supplement) (April): 53-54.

Webster, G. D.

- 1971 21.3382 The southwestern United States. *From: Lane, H. R., Merrill, G. K., Straka, J. J., II, and Webster, G. D., North American Pennsylvanian conodont biostratigraphy. In: Sweet, W. C., and Bergstrom, S. M. (eds.), Symposium on conodont biostratigraphy. Geological Society of America, Memoir 127*, pp. 403-407.
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- 1984 21.8434 Atokan stratigraphy of the southern Cordilleran miogeosyncline and adjacent shelf platform, southeastern California to northwestern Arizona. *In: Sutherland, Patrick K., and Manger, Walter L. (eds.), The Atokan Series (Pennsylvanian) and its boundaries—a symposium. Oklahoma Geological Survey, Bulletin 136*, pp. 123-131.

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- 1979 21.3383 Seismic studies in the Basin and Range-Colorado Plateau transition zone in southern Utah [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 11: 305.
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Weed, Walter Harvey

- 1907 21.3384 *The copper mines of the world*. New York and London: Hill Publishing Co., 375 pp. [See pp. 276, 294-297.]
- 1918 21.5040 *The mines handbook : an enlargement of the Copper Handbook founded by Horace J. Stevens, 1900 : a manual of the mining industry of the world. Volume XIII, Supplementing Volumes I to XII. International edition*. New York: W. H. Weed, 1,878+ pp. [See p. 533, Northern Arizona Lead and Zinc Mining Co., Supai, Arizona.]
- 1920 21.5049 *The mines handbook : an enlargement of the Copper Handbook founded by Horace J. Stevens, 1900 : a manual of the mining industry of the world. Volume XIV, Supplementing Volumes I to XIII. International edition*. New York: W. H. Weed, 1,992 pp. [See p. 190, Kaibab Copper Co.; p. 191, United States Platinum Co.; p. 245, Arizona American Copper Co.; p. 254, Grand Gulch Mining Co.; pp. 254-255, Hackberry Consolidated Mining Co.]
- 1922 21.4909 *The mines handbook : succeeding the Copper Handbook founded by Horace J. Stevens, 1900 : describing the mining companies of the world. Volume XV : supplementing Volumes I to XIV. International edition*. Tuckahoe, New York: The Mines Handbook Co. [See p. 419, United States Platinum Co., 1918-?, Grand Canyon; Ralph H. Cameron.]

Weil, Arlo B.; Geissman, John W.; AND Van der Voo, Rob

- 2004 21.4030 Paleomagnetism of the Neoproterozoic Chuar Group, Grand Canyon Supergroup, Arizona: Implications for Laurentia's Neoproterozoic APWP and Rodinia break-up. *Precambrian Research*, 129(1/2): 71-92. [Apparent Polar Wander Path.]

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- 2003 21.4436 Paleomagnetism of Middle Proterozoic mafic intrusions and Upper Proterozoic (Nankoweap) red beds from the lower Grand Canyon Supergroup, Arizona. *Tectonophysics*, 375: 199-220.

Weil, Arlo B.; Geissman, John W.; AND Van der Voo, Rob

- 2001 21.6584 Paleomagnetic results from the upper Unkar Group and overlying Nankoweap Formation from the Grand Canyon Supergroup (GCSG), Arizona: Implications for Laurentia's Neoproterozoic APWP [ABSTRACT]. *Eos (American Geophysical Union, Transactions)*, 82(47, Fall Meeting Supplement), Abstract GP11A-0197. [Apparent polar wander path.]

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- 1999 21.3759 Preliminary paleomagnetic results from the Neoproterozoic Chuar Group, Grand Canyon Supergroup, Arizona [ABSTRACT]. *Geological Society of America, Abstracts with Programs*, 31(7): A317.

Weinle, Art

- NO DATE 21.3385 *Grand Canyon hike slide: descending the slopes of geologic time.* (Rod Cranson, ed.) [Grosse Pointe, Michigan]: (distributed by National Earth Science Teachers Association). [1986.]

Weinschenk, Ernst

- 1906 21.6598 *Grundzüge der Gesteinskunde. I. Teil: Allgemeine Gesteinskunde als Grundlage der Geologie.* Freiburg im Breisgau: Herdersche Verlagshandlung, 2nd, revised ed., 228 pp., 6 plates. [Grand Canyon, see pp. 93-94.] [In German.]

Weiss, Emanuel

- 1991 21.3386 Regional ground-water flow in upper and middle Paleozoic rocks in southeastern Utah and adjacent parts of Arizona, Colorado, and New Mexico. *U.S. Geological Survey Water-Resources Investigations Report 90-4079*, 57 pp.

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| 2014 | 21.7854 | Wiatr i woda—niestrudzeni budowniczo. <i>III Biuletyn</i> (Sądecki Uniwersytet Trzeciego Wieku w Nowym Sączu, Nowy Sącz, Poland), 41 (September): 3-5. [Grand Canyon and Kaibab Plateau noted briefly, p. 4.] [In Polish.] |
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