

# THE GRAND CANON

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



## COMPUTER AND INTERACTIVE MEDIA FOR THE GRAND CANYON AND LOWER COLORADO RIVER REGIONS

**Computer media and selected digital media for personal devices, which include the  
Grand Canyon or the lower Colorado River region**














PART 29. COMPUTER AND INTERACTIVE MEDIA FOR THE GRAND CANYON  
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**OVERVIEW.** This part includes items that were released only in a computer-readable format. Digital materials that were released as supplementary files to printed articles and books, although so indicated in citations elsewhere in this bibliography, are not separately included in this part. Also included are announcements and similar items regarding media that are designed for digital personal-pad products such as iPhone, iPad, iPod Touch, or Android [some products in use as of 2014, for example]. Further included here are articles that may explain how certain computerized media were created. Web-based media are generally excluded from this bibliography due to the likelihood of individual products being inaccessible in the future. Personal (hand-held) media such as Kindle editions of books are likewise excluded because of their narrowly restrictive limitations to proprietary products and inconsistent data on provenance and availability (as well as uncertainty of future accessibility). While the definition of such products has blurred—for example, CD-ROM products including audio recordings can be construed to be “computer media”—the focus of this part of the bibliography is on graphical and interactive material; for example, map programs, interactive travel guides, older-style “screen savers”, and games. While web-based media are omitted due to their ephemeral nature (see below), included here are announcements and similar items that pertain to digital personal-pad devices (“apps”, or applications); this is to make known bibliographically the existence of these products through the publications that were used to promote them. The “apps” themselves are not cited because, as like their web-posted counterparts, the ability to acquire these things in the future will diminish to zero.

**RELATED MATERIAL**

[PART 11, SECTION 2A](#) and [PART 24](#) include citations of digital geological maps that may be printed out. [These are also cited in [THE GRAND CANON Volume 2 \(Cartobibliography\)](#).]

Key to Quick-Identification Symbols


	5.25-inch diskette
	3.5-inch diskette
 CD-ROM	CD-ROM disk
 CD-DATA	CD-ROM data disk
 CD-VIDEO	CD-ROM video disk (including interactive software)
 DVD-DATA	DVD data disk
 DVD-VIDEO	DVD video disk (including interactive software)
	DVD or optical disk (undefined)
	Reel-to-reel magnetic tape
	Computer software (general or obsolete, and games)
	Computer software (technical)
	Virtual reality software
	Selected web-based resources

## ANONYMOUS


- 2011      29.70      An app for Grand Canyon. *Canyon Views* (Grand Canyon Association), 18(3) (Fall): 2. [Notice.] ["App" = application; self-contained software downloaded for use on digital mobile devices.]
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## A

### ABCmouse.com


- \_\_\_\_\_      29.120      *Search and Explore: The Grand Canyon*. Glendale, California: Age of Learning, Inc., book-format digital pad application. (Search and Explore.) [Ca. 2012.] [Product for young users.] 
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### Alpha, Tau Rho

- 2007      29.61      (WITH Gary B. Lewis and Christine V. McLelland) *Landform paper models*. Boulder, Colorado: Geological Society of America. CD. (Geology On Paper series.) ["3-D landform geology paper models for students to construct"; includes Grand Canyon.] 
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## B

### Bainbridge, William Sims




- 2013      29.92      The iron law. *Journal of Virtual Worlds Research*, 6(3) (September): 1-14. [See "Fallen Earth", pp. 5-7. "The setting [in this online gameworld production] is a thousand square kilometers around the Grand Canyon in the former United States." (p. 5)] 
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**Billingsley, George H., AND Hampton, Haydee M.**

- 1999 29.1 Physiographic rim of the Grand Canyon, Arizona. *U.S. Geological Survey, Open-File Report 99-30*, 1 sheet, scale 1:250,000, contour intervals 25 and 50 m. [Also downloadable GIS (Geographic Information System) data file in ARC/INFO format, "Physiographic rim of the Grand Canyon, Arizona: A digital database", with explanation, 10 pp.] 


**Billingsley, George H.; Goodwin, Gregory; Nagorsen, Sarah E.; Erdman, Monica E.; AND Sherba, Jason T.**

- 2019 29.118 Geologic and related photographs of the Grand Canyon region (1967-2010) : a photograph collection by George Billingsley. *U.S. Geological Survey, Data Release*, <https://doi.org/10.5066/F7WS8SHW>. ["The photographs document some key geologic features, structures, and rock unit relations that were used to compile nine geologic maps of the Grand Canyon region published at 1:100,000 scale, and many more maps published at 1:24,000 scale." (For maps, refer to [Part 24](#) of this bibliography.)] [Link to USGS ScienceBase catalog: <https://www.sciencebase.gov/catalog/item/5a9751d5e4b06990606c5197>.] [For an introductory guide, see Billingsley *et al.* (2019, [ITEM NO.](#) 21.7952), <https://pubs.er.usgs.gov/publication/gip189>.]   

**Bowen, Mick**


- 2005 29.44 NASA educational resources for your classroom using Worldwind (Virtual 3D Earth) and Celestia Exploration Activity (Real-Time Space Simulation Add-On to the Celestia program) [ABSTRACT]. *Great Rift Science Symposium, October 6-9, 2005, Idaho State University, Pocatello, Idaho : program and abstracts*, p. 39. 

**Brodzinsky, Richard, AND Singh, Hanwant B.**


- 1983 29.105 *Volatile organic chemicals in the atmosphere: An assessment of available data*. Menlo Park, California: SRI International, Atmospheric Science Center, for U.S. Environmental Protection Agency, Office of Research and Development, Environmental Sciences Research Laboratory, Research Triangle Park, North Carolina, ix, 198, [8] pp. + magnetic tape. (EPA/600/09.) (EPA/DF-83/005a.) (Documentation, PB83-195503.) (Magnetic tape, PB83-195511. "Source tape is in ASCII character set. Character set restricts preparation to 9 track, one-half inch tape only.") [Monitoring sites for some chemicals include Grand Canyon.] 




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

- 1990 29.2 Arizona radiometric ages; HyperCard stack. *U.S. Geological Survey, Open-File Report 90-0704-A*, 5 pp. 

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- 1990 29.3 Arizona radiometric ages; HyperCard stack. *U.S. Geological Survey, Open-File Report 90-0704-B*, one 3½-inch Macintosh diskette [requiring Macintosh computer with minimum 2MB RAM, hard disk, and HyperCard]. 

**Caudill, Christy M.**



- 2015 29.98 Geochemical databases for characterization of K-metasomatized Tertiary units in central-western Arizona. *Arizona Geological Survey, Digital Information DI-45*, text 6 pp. + digital files (X-ray fluorescence geochemical analyses [Shapefile], X-ray fluorescence geochemical analyses [Excel file], whole rock geochemical analyses [Shapefile], whole rock geochemical analyses [Excel file]) accessible online, [http://repository.azgs.az.gov/uri\\_qin/azgs/dlio/1662](http://repository.azgs.az.gov/uri_qin/azgs/dlio/1662). 

**Coachella Valley Association of Governments**


- 2007 29.95 *Final Recirculated Coachella Valley Multiple Species Habitat Conservation Plan and Natural Community Conservation Plan : September 2007*. [Palm Desert, California: Coachella Valley Association of Governments], 11 sections, 5 appendices; with Implementing Agreement and Environmental Impact Review documents. ("Provided on CD and website only"; [http://www.cvmshcp.org/Plan\\_Documents\\_old.htm](http://www.cvmshcp.org/Plan_Documents_old.htm)).



**Copernicus Software**

- 1995 29.4 *Grand Canyon North Rim screen saver*. Lake Oswego, Oregon: Copernicus Software, LLC. DOS format, 2 3.5-in. diskettes. 
- 1996 29.71 *Grand Canyon screen saver. Volume II*. (Photography by Mike Buchheit.) Lake Oswego, Oregon: Copernicus Software, LLC, 3.5-in. diskette. 
- ≡ CROSS-LISTINGS FQ24/1:585

**Coriolis Group Media**

- 1995 29.5 *Explore the Grand Canyon*. Scottsdale, Arizona: Coriolis Group Media, and Phoenix: Media Terra, LLC. Windows format, CD, with user's guide, 72 pp. [For a related article, see Jarol (1996, ITEM NO. 2.3664).] 
- ≡ CROSS-LISTINGS FQ10:522 FQ11:670
- ≡ REVIEWS AND NOTICES Bennett *et al.*, 1995, ITEM NO. 30.51; Crawford, 1996, ITEM NO. 30.367; Hose, 1996, ITEM NO. 30.126; White, 1996, ITEM NO. 30.275; Willoughby, 1992, ITEM NO. 30.280


**Cossey, Stephen P. J., AND Swanson, Steven C.**

- 2000 29.58 Geologic cross section from the Grand Canyon, Arizona to southeast New Mexico. *New Mexico Bureau of Geology and Mineral Resources, Open-File Report 453*. CD.





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**Cross, VeeAnn A.**

2005 29.64 Lake Mohave geophysical survey 2002; GIS data release. *U.S. Geological Survey, Open-File Report 2004-1247*. CD-ROM. [Geographic Information System.]  CD-DATA


**Cross, VeeAnn A., AND Twichell, David C.**

2002 29.34 Archive of seismic-reflection data collected during USGS cruise Lake Mead 01007 in Lake Mead—Nevada and Arizona, 1-28 April, 2001. *U.S. Geological Survey, Open-File Report 02-478*, DVD.  DVD-DATA

2003 29.80 Archive of seismic-reflection data collected during USGS cruise Lake Mead 99014 in Lake Mead—Nevada and Arizona, 14-25 May, 1999. *U.S. Geological Survey, Open-File Report 03-003*, DVD.  DVD-DATA

2003 29.81 Archive of seismic-reflection data collected during USGS cruise Lake Mead 00027 in Lake Mead—Nevada, 1-6 June, 2000. *U.S. Geological Survey, Open-File Report 03-004*, DVD.  DVD-DATA

**Curtis, Edward S.**



2007 29.87 *The North American Indian : The Pima—Papago—Qahatika—Mohave—The Yuma—Maricopa—Walapai—Havasupai—Yavapai. Volume 2*. Murrieta, California: Classic Books, CD-ROM. [Title from disk label. Digitized version of Curtis (1908, ITEM NOS. 11.9708, 17.81).]  CD-ROM

D


**Davis, Harold**

1994 29.26 *Images of the Grand Canyon*. Corel Corp. CD-ROM.  CD-ROM

**DeLorme [firm]**


1999 29.27 *3-D TopoQuads : Arizona*. Yarmouth, Maine: DeLorme, 9 CD-ROMs, 12-page text.  CD-ROM  
 REVIEWS AND NOTICES Grubbs, 2000, ITEM NO. 30.301; Hanson, 2000, ITEM NO. 30.309

**Discis Knowledge Research, Inc.**

1995 29.50 *Paul Bunyan*. Buffalo, New York: Discis Knowledge Research, Inc. CD. [Optional audio background in Spanish.]  CD-VIDEO


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**Discovery Communications, Inc., Discovery Channel School**

2004 29.41 *Ecology*. Florence, Kentucky: Discovery Communications, Inc. Optical disc for Macintosh/Windows, version 2.0. [Includes Grand Canyon.] 

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**Discovery Productions**

\_\_\_\_\_ 29.6 *Trailvision—Exploring the Grand Canyon : your explorapedia guide to one of the grandest places on earth*. Discovery Productions. CD-ROM.  CD-ROM

\_\_\_\_\_ 29.36 *Trailvision—Hiking Arizona, Vol. 1*. Discovery Productions. CD-ROM.  CD-ROM

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**Dohrenwend, John C.**

2003 29.63 *Streams satellite*. Seattle: Easterbrook Photo/Image Center (EPIC), Quaternary Research Center, Earth and Space Sciences Department, University of Washington, CD-ROM. [Satellite imagery. Includes: Grand Canyon; Colorado River delta building into the Salton Sea; Colorado River delta; incised river, Marble Canyon.]  CD-ROM

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E


**Encore Software**

\_\_\_\_\_ 29.30 *Kawasaki Jet Ski Watercraft*. Computer game (Win95/98/Mac platform). [Includes "Colorado River Rapids" game environment simulation.] 

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F

**Fallen Earth LLC**


2009 29.68 *Fallen Earth: Blood sports*. Icarus Studios. [Computer game, taking place in "post-apocalyptic Grand Canyon in 2156."] 

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**Finley-Holiday Film Corp.**

2006 29.111 *Grand Canyon National Park : vacation photos : digital pictures : includes 100 digital pictures!, image browser with captions, screen saver*. [No place]: Finley-Holiday Film Corp. DVD for Windows and MacOS. 





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- 2006 29.111 *Bryce, Zion and Grand Canyon North Rim : vacation photos : digital pictures : includes 130 digital pictures!, image browser with captions, screen saver.* [No place]: Finley-Holiday Film Corp. DVD for Windows and MacOS. 

**Four Chambers Studio**



- 2005 29.45 *360 degrees of Grand Canyon National Park.* Four Chambers Studio. CD. [360-degree panoramic views; rim views and inner canyon views.] 
- 2011 29.74 *Grand Canyon National Park virtual tour CDROM : 360° panoramas, ebooks, 3D stereographs, kids scavenger hunt, interactive maps, internet linked, topo maps.* [No place]: Four Chambers Studio LLC. Round metal container containing CD, anaglyphoscope and insert, "360 Degrees of Grand Canyon Kid's [sic] Scavenger Hunt". [For Windows™ or Macintosh™.] [Container-top label cited. Container-bottom label notes: "Plays on Your Computer. Includes Internet Linked Content. Four Chambers Studio. Family Owned and Operated."] 

**Fretheim, Paul**


- 2001 29.46 *Take home Grand Canyon in virtual reality! The story of Grand Canyon in beautiful panoramic images and text!* Inyo Pro. CD-ROM.  
- 2009 29.79 *Take home Grand Canyon in virtual reality! Version 2.0.1.* Independence, California: Inyo Pro. CD-ROM.  

G

**Garrity, Christopher P., AND Soller, David R.**

- 2009 29.121 Database of the Geologic Map of North America—adapted from the map by J.C. Reed, Jr. and others (2005). *U.S. Geological Survey, Data Series 424*, 7 pp. + digital files online at <https://pubs.er.usgs.gov/publication/ds424>. [Refer to Reed *et al.* (2005, ITEM NO. 24.832).]  


**Gearbox Software, AND 2KGames**

- 2011 29.86 *Duke Nukem forever.* [No place]: 2KGames (and Aspyr Media, for Macintosh products). (George Broussard, designer; Eric Von Rothkirch, composer. Developers: 3D Realms, Triptych Games, Gearbox Software, Pirana Games.) (Duke Nukem series.) [Interactive digital game with plot set principally at Hoover Dam, which is destroyed in a battle against alien invaders. Platforms: Microsoft Windows, PlayStation 3, Xbox 360, OS X, OnLive.] 
- ≡ [REVIEWS AND NOTICES](#) *NEW YORK TIMES*: Schiesel, 2011 June 18, ITEM NO. 3.1635






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**Glu Mobile**

2007 29.110 *Transformers*. [No place]: Glu Mobile. [For a guide to the digital-display game see Moriarty (2007, [ITEM NO. 7.803](#)). Single-player game is based on the film [*Transformers*; see DreamWorks (2008), [ITEM NO. 26.430](#)], thus the storyline reflects the cinematic vision displayed in the movie. "Megatron, who crash-landed on Earth searching for the AllSpark, is obtained by the American government and held in the Hoover Dam. Meanwhile, the Autobots learn of the AllSpark's existence on the planet and try to acquire it before the Decepticons, led by Megatron, obtain it." (p. [2] of Moriarty.)] 

[≡ REVIEWS AND NOTICES](#) [Anonymous, 2007, ITEM NO. 30.1383](#)


**Gushue, T. M.**

2019 29.119 Colorado River mile system, Grand Canyon, Arizona. *U.S. Geological Survey, Data Release*, <https://doi.org/10.5066/P9IRL3GV>. [USGS ScienceBase link: <https://www.sciencebase.gov/catalog/item/5b2185ace4b092d96528747b>.] [Glen Canyon Dam to Pearce Ferry. "These data represent the centerline and measured increments at hundredths, tenths and whole miles, along the centerline of the Colorado River beginning at Glen Canyon Dam near Page, Arizona and terminating near the inflows of Lake Mead in the Grand Canyon region of Arizona, USA. The centerline was digitized using Color Infra-Red (CIR) orthophotography collected in March 2000 as source information and a LiDAR-derived river shoreline representing 8,000 cubic feet per second (CFS) as the defined extent of the river. Every effort was made to follow the main flow of the river while keeping the line approximately equidistant from both shorelines. The centerline feature class has been created to more accurately map locations along the Colorado River downstream of the Glen Canyon Dam. River miles and river kilometers were developed from measurements along this line. The incremental point feature classes were derived from the centerline of the Colorado River datasets. Specifically, the points were generated from nodes extracted from the centerline endpoints of the tenth mile line feature class. The Grand Canyon Monitoring and Research Center (GCMRC) river mileage was cross-checked with commercially available river guides and always fell within one mile of the guides, usually corresponding within a half mile. Additionally, these data were subjected to internal review by GCMRC scientists and commercial boatmen with decades of river travel experience on the Colorado River. River Mile 0 was measured from the USGS concrete gage and cableway at Lees Ferry, Arizona—as per the Colorado River Compact of 1922—with negative river mile numbers used in Glen Canyon and positive river mile numbers downstream in Marble and Grand Canyons. These data were updated in March 2015 using newer ortho-rectified imagery collected in May of 2009 and 2013, both at approximately 8,000 CFS. Due to extended drought conditions that have persisted in the U.S. Southwest, lake levels have dropped dramatically, especially at Lake Mead. A stretch of the Colorado River corridor that was part of Lake Mead in year 2000 has returned to a flowing river once again, and with a different channel that has not previously existed. All changes to the original centerline are downstream of River Mile 260 which is just upstream of Quartermaster Canyon in western Grand Canyon. New river miles and river kilometers were developed from this updated centerline."]   


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## H


### Hink, Jo Ellen, AND Cleveland, Danielle

- 2017 29.91 Chemistry data in support of manuscript "Pre-mining trace element and radiation exposure to biota from a breccia pipe uranium mine in the Grand Canyon (Arizona, USA) watershed". *U.S. Geological Survey, Data Release*, <https://doi.org/10.5066/F7QF8R16>, metadata, .xml, .csv files. [Canyon Mine.] [Manuscript text not included.] 

### Hinck, Jo Ellen; Hossack, B. R.; AND Honeycutt, R. K.


- 2017 29.117 Amphibian acoustic data from the Arizona 1, Pinenut, and Canyon breccia pipe uranium mines in Arizona. *U.S. Geological Survey, Data Release*, <https://doi.org/105066/F71834QW> or <https://www.sciencebase.gov/catalog/item/58b0838be4b01ccd54fb2b87> (.xml and .csv files). 

### Horton, John D.; San Juan, Carma A.; AND Stoesser, Douglas B.



- 2017 29.94 The State Geologic Map Compilation (SGMC) geodatabase of the conterminous United States. *U.S. Geological Survey, Data Series 1052*, 46 pp. + appendices (text, as introductory material for interactive map online, <https://doi.org/10.3133/ds1052>). 

## I

### Immersive Entertainment, Inc.

- 2015 29.106 *The Grand Canyon VR experience*. Irvine, California: Immersive Entertainment, Inc. (Virtual Universe.) [Downloadable Virtual Reality software displaying a tracked kayak trip with environmental interaction. Requires HTC Vive or Oculus Rift headset, tracked motion controller, gamepad, keyboard/mouse, Windows 7 or higher operating system, Intel Core i5 processor or equivalent, 2GB available disk space.] [NOTE: Environmental surroundings are not at all realistic to Grand Canyon.] [Grand Canyon Experience.] 

### InfoMagic

- 1996 29.38 *Southwestern trails. Volume 1*. Flagstaff, Arizona: InfoMagic. CD-ROM. 
- 1997 29.35 *Grand Canyon explorer*. Flagstaff, Arizona: InfoMagic. CD-ROM. 

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**InterOptica Publishing**

1993 29.55 *7 natural wonders.* San Francisco: InterOptica Publishing. CD-ROM.  CD-VIDEO

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**Irons, Judith Sattler**

2008 29.62 *Hoover Dam construction workers and the pioneer families of Boulder City, Nevada : 1929 thru June 1936 : a genealogical reference to the Boulder Canyon Project and Federal Reservation.* [Spokane Valley, Washington]: Judith Irons. CD. [PDF, 4,463 pp.] 

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K

**Klett, Mark**

2004 29.42 (PROJECT DIRECTOR) *Third views, second sights : a rephotographic survey of the American West.* Santa Fe, New Mexico: Museum of New Mexico Press, in association with Center for American Places, CD-ROM accompanying book. 


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**King, H. D., AND Chaffee, M. A.**

2000 29.97 Analytical results and sample locality map for rock, stream-sediment, and soil samples, northern and eastern Colorado Desert BLM Resource Area, Imperial, Riverside, and San Bernardino Counties, California. *U.S. Geological Survey, Open-File Report 00-0105-B*, digital diskette. [Also released on paper, *Open-File Report 00-0105-A* (ITEM NO. 11.83143). "Part B is an IBM-compatible digital version of Part A on a 1.44 MB 3.5 in. diskette. The diskette includes this text in ASCII format, and in Corel WordPerfect, version 8 format, as well as an ASCII 'readme' file; and the complete data for tables 3 through 8 in both 'dbf' and 'wk1' formats. The 'dbf' files are similar to the tables in part A. The 'wk1' files are more complete in that they include the specific lower-limit values for elements with more than one lower limit of determination. The 'dbf' and 'wk1' files for table 3 also include rock descriptions. Figures 1 and 2 are not included on the diskette." (p. 1)] [U.S. Bureau of Land Management.] 

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**Kneale, S. M., AND Richard, S. M.**


1998 29.7 Arizona geologic index map, version 1.0. *Arizona Geological Survey, Digital Information DI-9*, text 5 pp. + 3 high-density diskettes. 

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## L

### [Lagerquist, David]

1983	29.84	Shaving cream! <i>CLOAD Magazine</i> , (November): 2. [Loading and operating tips for "Men Away", a machine-language computer game by Greg Pryor for the TRS-80 computer. "You must save the passengers of your crippled DC-10 by dropping them into a foam-filled Grand Canyon . . . ."] ["CLOAD", a TRS-80 BASIC command to load a program from a cassette. <i>CLOAD Magazine</i> originally distributed on cassette, and from October 1982 also distributed on floppy disk.] [This issue signed "Dave, ed."] 
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### Lano, Cole, AND Beck, John C.

2001	29.59	<i>Western United States map collection</i> . [No place]: Euriskodata, Inc. CD. [Requires MrSid (Multi-Resolution Seamless Image Database) plug-in.] 
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## M

### Maptech

1998	29.8	<i>Grand Canyon National Park : national park digital guide</i> . Greenland, New Hampshire: Maptech, CD-ROM. 
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### Marsh, Michael

NO DATE	29.57	<i>The Grand Canyon : a top-to-bottom look at the mother of all holes in the ground</i> . Atlanta, Georgia: Gallopade Publishing Group. 3.5-inch computer diskette [for Macintosh]. (Carole Marsh Books-On-Disc, Carole Marsh family interactive multimedia, 2.) 
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### Marsh, Paul C.

2001	29.29	(PRINCIPAL INVESTIGATOR) <i>Bibliography for the big river fishes, Colorado River</i> . Tempe, Arizona: Arizona State University, under contract to U.S. Geological Survey, Denver, Cooperative Agreement No. 00CRAG0004, Cooperative Project Award 0004CS0001. CD-ROM. 
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**McDonnell, Paul**

\_\_\_\_\_ 29.40 *Avro Arrow computer animation.* Vancouver, British Columbia: Mach 3 Graphics. [Includes Grand Canyon.] 


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**McKinney, Kevin C.**

2002 29.33 (ED.) Digital archive; Report upon the Colorado River of the West explored in 1857 and 1858 by Lieutenant Joseph C. Ives; geological report with maps by John S. Newberry. *U.S. Geological Survey, Open-File Report 02-0025*, CD-ROM.  CD-DATA

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**Microsoft**


1994 29.9 *Microsoft scenes : Sierra Club nature collection : the screen saver that celebrates wilderness. Version 2.0.* Redmond, Washington: Microsoft, 2 3.5-in. diskettes. Windows format. 

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N


**Natural Graphics**

1993 29.10 *Scenery animator.* Rocklin, California: Natural Graphics, three 3.5-inch diskettes; with user's manual. Macintosh format.   
 ≡ [REVIEWS AND NOTICES](#) [Fenton, 1994, ITEM NO. 30.93](#)

1993 29.11 *Scenery animator. Version 4.0.* Rocklin, California: Natural Graphics, two 3.5-inch diskettes; with user's manual. 


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**Nelson, Clifford M.**

2000 29.28 (ED.) Records and history of the United States Geological Survey. *U.S. Geological Survey, Circular 1179*, CD-ROM. [Includes: *Inventory of the records of the United States Geological Survey Record Group 57: In the National Archives*, compiled by Renée M. Jaussaud, and text of U.S. Geological Survey Circular 1050, *The United States Geological Survey: 1879-1989*, by Mary C. Rabbitt.]  CD-DATA

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**Nintendo**

1996 29.114 *Cruis'n USA.* Nintendo. (Developed for the Nintendo 64 platform by Williams [firm]; Eugene Jarvis, director; Eric Pribyl and Carl Mey, programmers; Xion Cooper and Ted Barber, artists; Vince Pontarelli, composer.) (Cruis'n series.) [Single- or multi-player game. Originally developed by Midway Games as an arcade game for the Midway V Unit, 1994.] [Includes Grand Canyon.]   
 ≡ [REVIEWS AND NOTICES](#) [\[Arcade version\] Crosswaite, 1995, ITEM NO. 30.1402](#)

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**Nintendo of America, Inc.**

2000 29.88 *Mickey's Speedway USA*. Redmond, Washington: Nintendo of America, Inc. [Video Game for Nintendo® 64; Instruction Booklet, 21 pp. (Logos for Rareware, Disney Interactive, Nintendo.64, and EmuMovies.)] [Interactive racing game featuring Mickey Mouse and other Disney characters. Courses include "Grand Canyon—the longest track you'll find in the game."] 

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**Nussbaum, E. Michael; Sinatra, Gale M.; Cordova, Jacqueline; Owens, Marissa C.; AND Rehmat, Abeera P.**

2012 29.73 *Losing the lake : a simulation game on Lake Mead, water resources, and climate change. Facilitator's guide*. [Reno?]: [University of Nevada at Reno?], 52 pp. [See also Nussbaum *et al.* (2013, ITEM NO. 12.7686).] ["Losing the Lake" is a computer simulation game consisting of activities pertaining to water conservation and water supply as affected by climate change scenarios; accessible online at [http://www.cse.unr.edu/~hpcvis2/Projects/LosingTheLake/LosingTheLake\\_V2.swf](http://www.cse.unr.edu/~hpcvis2/Projects/LosingTheLake/LosingTheLake_V2.swf).] 

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Q


**QuadsUSA, Inc.**

1998 29.12 *QuadsUSA*. AZ. Phoenix: QuadsUSA, Inc., 9 CDs, text 23 pp. [Topographic quadrangle maps.] 


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R



**Redlands Institute, AND Environmental Systems Research Institute**

1999 29.72 *Salton Sea digital atlas*. Redlands, California: University of Redlands. 3 CD-ROMs. [Requires ArcView software.] [Disk 1: GIS (Geographic Information System) data and program files. Disk 2: Digital image maps. Disk 3: Digital orthophotographs.] 



**Richard, S. M.**

1996 29.99 Database files describing mineralized sites in the State of Arizona (version 1.0). *Arizona Geological Survey, Digital Information DI-3*, text 22 pp. + DBase IV format database on three 3.5-in. diskettes. 


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- 1997 29.13 Geologic map of Arizona, GIS database, v1.0. *Arizona Geological Survey, Digital Information DI-8*, 2 high-density diskettes. [Digital version of Arizona Geological Survey, Map 26 (Reynolds, 1988, [ITEM NO. 24.162](#)), scale 1:1,000,000; data translated into Arc/Info and edited to improve accuracy, with minor revisions to the classification of rock units. Diskettes include index of source maps in ESRI shapefile, and bibliographic citations in xBase (dbf) table.] [Geographic Information System.]   
[Also: Files accessible now online at [http://repository.azgs.az.gov/uri\\_qin/azgs/dlio/1721](http://repository.azgs.az.gov/uri_qin/azgs/dlio/1721), with KMZ (Keyhole Markup Language) file added June 18, 2019, for users employing Google Earth. 

**Richard, S. M.; Reynolds, S. J.; Spencer, J. E.; AND Pearthree, P. A.**


- 2000 29.66 Digital graphic files for the Geologic Map of Arizona; a representation of Arizona Geological Survey Map 35. *Arizona Geological Survey, Digital Geological Map DGM-17*, CD.  [Also: Files accessible January 19, 2017 online at [http://repository.azgs.az.gov/uri\\_qin/azgs/dlio/1705](http://repository.azgs.az.gov/uri_qin/azgs/dlio/1705), also with KMZ (Keyhole Markup Language) file for users employing Google Earth. 

**Russell, Kenneth**



- 2001 29.77 *JCanyon: Grand Canyon for Java*. [No place]: Sun Microsystems, Inc. [Three-dimensional Grand Canyon terrain model comprising approximately 100MB elevation data and 200MB of satellite imagery. Written in the Java™ programming language.] 

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**Schmidt, Nancy; Reynolds, Steven J.; AND Horstman, Kevin C.**

- 1991 29.14 AZGEOBIB; preliminary version. *Arizona Geological Survey, Open-File Report 91-4*, MS-DOS computer disk, or 302-page printout. [NOTE: A printout from the disk, single-spaced 10-point Times Roman, with 1-inch margins, produced 432 pages.] 

**Schwartzlose, Richard A.; Alvarez Millán, Danténoc; AND Brueggeman, Peter**

- 1992 29.76 *Golfo de California: Bibliografía de las ciencias marinas. Gulf of California: Bibliography of marine sciences*. [No place]: Universidad Autónoma de Baja California, 425 pp. (Scripps Institution of Oceanography Technical Report.) [With Introduction in Spanish and English.] [NOTE: A 2MB digital format also distributed in ASCII format on diskettes as follows: For IBM or compatible machines—2 High Density or 8 Double Density 5.25-inch diskettes; or 2 High Density or 4 Double Density 3.5-inch diskettes. For Macintosh machines—3 800KB diskettes. These diskette versions were available from University of California at San Diego, Scripps Institution of Oceanography Library by sending blank diskettes to the Public Services Librarian.]  

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**Segarra Bosch, Enric**

- 2018 29.107 *La soidaritat . . . un bon remei! Power Points amb valors diversos. N° 12.* [No place]: Enric Segarra Bosch. [See "Série Arte/Reflexión. Arte de Imagenes, Arte Musical y Arte del Pensamento. Bellas Cascadas del Mundo. Música: Ernesto Cortazar. Text: Roberto Shinyashiki. (La Conciencia de su Misión)".] [PowerPoint productions. Includes "Chutes Havasu, Grand Canyon, Arizona, USA".] [Ellipsis is part of title.] [In Catalan.] 📄

**Senay, Gabriel B.; Schauer, Matthew; Friedrichs, MacKenzie; Velpuri, Naga Manohar; AND Singh, Ramesh K.**

- 2017 29.90 Satellite-based water use dynamics using historical Landsat data (1984-2014) in the southwestern United States. *U.S. Geological Survey, Data Release*, <https://doi.org/10.5066/F7DF6PDR>, 9 figures and XML metadata. [Evapotranspiration maps include Palo Verde Irrigation District.] 📄

**Shuford, W. David; Rintoul, Chris; Stralberg, Diana; AND Toniolo, Viola**

- 2010 29.123 Digital atlas of colonies of seven species of inland-breeding waterbirds in California. *Accompanying*: Shuford, W. David, Inland-breeding pelicans, cormorants, gulls, and terns in California; a catalogue, digital atlas, and conservation tool. *California Department of Fish and Game, Wildlife Branch, Nongame Wildlife Program Report 2010-01*, CD-ROM. 📀 CD-DATA

**Sierra Club**

- 1993 29.43 *7 natural wonders.* San Francisco: InterOptica Publishing Limited, CD-ROM. (Sierra Club Electronic Guide.) 📀 CD-VIDEO

**Softstuff**

- \_\_\_\_\_ 29.15 *Scenic Grand Canyon National Park screen saver and wallpaper* (images by Gary Ladd). Softstuff, CD-ROM, 33 images (PC- or Macintosh-compatible). 📀 CD-VIDEO

**Southern Paiute Consortium, AND University of Arizona, Bureau of Applied Research in Anthropology**







- 1998 29.60 *Nengwetevip : the land, resources and history of the Southern Paiute people.* Fredonia, Arizona: Southern Paiute Consortium. CD. 📀 CD-DATA

**Spamer, Earle E.**

- 1990 29.16 (COMPILER; WITH George H. Billingsley, William J. Breed, Robert C. Euler, Dorothy A. House, Grace Keroher, Valerie Meyer, Richard Quartaroli, and Lawrence E. Stevens) Bibliography of the Grand Canyon and the lower Colorado River; from 1540. (Foreword by Louise M. Hinchliffe.) *Grand Canyon Natural History Association, Monograph 8*, five 5.25-inch diskettes. [ASCII-formatted (text-only).] 📄  
 ☰ CROSS-LISTINGS FQ5:168 FQ6:245 FQ7:213



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- 1993 29.17 (COMPILER; WITH Daniel F. Cassidy and John Irwin) Bibliography of the Grand Canyon and the lower Colorado River; from 1540. Supplement 1. *Grand Canyon Natural History Association, Monograph 8, Supplement 1*, two 5.25-inch diskettes. [ASCII-formatted (text-only).] 
- 2000 29.108 (WITH CONTRIBUTORS Richard D. Quartaroli and Daniel F. Cassidy) *A bibliography of the Grand Canyon and lower Colorado River*. [First posted to internet in January 2000, [www.grandcanyonbiblio.org](http://www.grandcanyonbiblio.org); sponsored by Grand Canyon Association. Continuously updated to 2015. Discontinued October 2021.]     
 ≡ CROSS-LISTINGS THOMAS 977 [cited as 2003, which denotes her documentation of date when seen online] [See [Appendix to Part 1](#) herein for contents and arrangement of this edition.]  
 ≡ REVIEWS AND NOTICES Miles, 2005, ITEM NO. 30.1377
- 2012 29.82 *The Grand Canon: 1548-2012. A directory to 48,600 published items and new content on the Grand Canyon and lower Colorado River Region—Arizona, Nevada, California, Baja California, Sonora—Southwestern United States—Northwestern Mexico*. Philadelphia: Earle E. Spamer, CD-ROM (book-layout PDF format, pagination [1-2], i-l, 1-1826, I-XVIII, 1827-4988, I-XII, 4989-5207; bibliography, pp. 353-5019). (A Raven's Perch Digital Production.) • [This 1st ed. may also be downloaded as a single PDF file from the Raven's Perch Media website (<https://ravensperch.org>).]  CD-DATA
- 2015 29.83 *The Grand Canon: Second edition, 1542-2014. A bibliography of 65,000 published items in printed and other media about or including the Grand Canyon and lower Colorado River Regions—Arizona, Nevada, California, Baja California, Sonora—Southwestern United States—Northwestern Mexico*. Philadelphia: Raven's Perch, DVD (book-layout PDF format, pagination [iv], 6798 pp.). [Disk also includes the 1st ed. (Spamer, 2012, ITEM NO. 29.82).] • [The 2nd ed. may also be downloaded as a single PDF file from the Raven's Perch Media website (<https://ravensperch.org>).]  DVD-DATA
- 2019 29.109 *The Grand Canon : a worldwide bibliography of the Grand Canyon and lower Colorado River regions in the United States and Mexico, 1535–2018 : 90,000 categorized and augmented citations for publications from around the world in 95 languages : with extensive background and supporting information. / El Gran Canon : una bibliografía mundial del regiones del Gran Cañón y bajo Río Colorado en los Estados Unidos y México, 1535-2018 : 90 000 citaciones categorizadas y aumentadas para publicaciones del alrededor del mundo en 95 idiomas : con antecedentes extensivos e información de apoyo : (idioma principal del tomo en inglés)*. Philadelphia: Raven's Perch Media, 3rd ed., Portable Document Format (PDF) (pagination 11,724 p. : [I-X], I-XVI, [1-2], A-M, Español A-N, [1-2], i-xiii [xiv], Introduction 1-487 [488], [1-2], Bibliography 1-10,993 [10,994], [1-2], Nomenclatural Appendix 1-163 [164], [1-2]). [The title-page, Abstract, and Executive Summary are also provided in Spanish.] [Posted online in January 2019 on the Raven's Perch Media website (<https://ravensperch.org>), divided into its component pieces. [NOTE: In May 2019 the contiguous, full volume was made available on the Raven's Perch website, together with the 1st and 2nd eds. The 3rd ed. as a single PDF may also be downloaded from the digital library of the American Philosophical Society Library at <https://diglib.amphilsoc.org/islandora/object/grand-canon-%3A-worldwide-bibliography-grand-canyon-and-lower-colorado-river-regions>; the volume may also be accessed through the APS's catalog record: <http://opac.amphilsoc.org/cgi-bin/koha/opac-detail.pl?biblionumber=239192>. (American Philosophical Society Library: <https://www.amphilsoc.org/library>.)] • [An interim *Supplement*, comprising new citations and significant emendations to previously published citations since the

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January 2019 release of the 3rd ed., is available at  
<https://ravensperch.org/supplement> in advance of the 4th ed.] 🌐🌐🌐  
≡ REVIEWS AND NOTICES Anonymous, 2019, ITEM NO. 30.1388

- 2019 29.113 *Bibliography of paleontology of the Grand Canyon region and in the stratigraphic continuity of Grand Canyon formations : compiled to commemorate the centennial of Grand Canyon National Park and National Fossil Day 2019 : extracted from The Grand Canon, a worldwide bibliography of the Grand Canyon and lower Colorado River regions in the United States and Mexico. [No place]: Raven's Perch Media, 120 pp. [PDF format accessible at <https://ravensperch.org/bibliography-of-paleontology-of-the-grand-canyon-region/>.] [First version posted online in May 2019; occasionally updated thereafter.] 🌐🌐🌐*
- 2020 29.124 *The Grand Canon : a worldwide bibliography of the Grand Canyon and Lower Colorado River regions in the United States and Mexico : Part 25 special preprint in advance (April 2020) of the unscheduled 4th Edition. [No place]: Raven's Perch Media, PDF, 564 pp. ("Part 25 has doubled in size since the release of the 3rd Edition of The Grand Canon in January 2019. In addition, significant cross-listings to Carl I. Wheat's Mapping the Transmississippi West have been added for the first time to this part of the bibliography. And, a third section has been introduced that lists all maps in Part 25 in chronological order.") [Includes significant emendations.] [Accessible through <https://ravensperch.org/>.] [Superseded by the Cartobibliography (Spamer, 2021).] 🌐🌐🌐*
- 2020 29.125 *The Grand Canon : a worldwide bibliography of the Grand Canyon and Lower Colorado River regions in the United States and Mexico : Part 25 special preprint (version 2—October 2020) in advance of the 4th Edition of The Grand Canon. [No place]: Raven's Perch Media, PDF, 850 pp. ("Part 25 has hugely increased in size and has undergone significant editing since the release of the 3rd Edition of The Grand Canon in January 2019. In addition, significant cross-listings to Carl I. Wheat's Mapping the Transmississippi West have been added for the first time to this part of the bibliography. And, a third section has been introduced that lists all maps in Part 25 in chronological order.") [Accessible through <https://ravensperch.org/>.] [Superseded by the Cartobibliography (Spamer, 2021).] 🌐🌐🌐*
- 2020 29.127 *Grand Canyon, colossal mirror : the term "Grand Canyon" as used in geographical nomenclature, analogy, metaphor, and neology. [No place]: Raven's Perch Media, PDF, 181 pp. [Version 1, 10 December 2020. Accessible at <https://ravensperch.org/>.] 🌐🌐🌐*  
≡ REVIEWS AND NOTICES Spamer, 2021, ITEM NO. 30.1537
- 2021 29.128 *Cartobibliography of the Grand Canyon and lower Colorado River regions in the United States and Mexico, 1535–2021 : an accompaniment to THE GRAND CANON, a worldwide bibliography of the Grand Canyon and lower Colorado River regions. Philadelphia: Raven's Perch Media, 1st ed. March 2021, lxxiii, 1098 pp., distributed digitally principally by online download; electronic resource PDF format accessible at <https://ravensperch.org/>. [Erratum. Cover illustration is not a detail from Humboldt (1811), but is a detail from Zebulon M. Pike's unattributed, advance publication of Humboldt's map in 1810: "A Map of the Internal Provinces of New Spain." In: Pike, Z. M., An account of expeditions to the sources of the Mississippi, and through the western parts of Louisiana, to the sources of the Arkansaw, Kans, La Platte, and Pierre Jaun, rivers : performed by order of the government of the United States during the years 1805, 1806, and 1807. And a tour through the interior parts of New Spain, when conducted through these provinces, by order of the Captain-General, in the year*


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1807. Philadelphia: C. and A. Conrad, and Co.; Petersburg (New York): Somervell and Conrad; Norfolk (Virginia): Bonsal, Conrad, and Co; and Baltimore (Maryland): Fielding Lucas, Jr. (John Binns, Printer) (1810).]   


**Spencer, Jon E.; Ferguson, Charles A.; Johnson, Bradford J.; Gehrels, George; Pecha, Mark; AND Doe, Michael**

2015      29.100      A partial compilation and database of U-Pb geochronologic data and sample locations in Arizona and southeastern-most California. *Arizona Geological Survey, Digital Information DI-46*, text 2 pp. + Shapefiles, Excel table, and 2 appendices: a) 58 Excel U-Pb data tables; b) 22 map figures, accessible online, [http://repository.azgs.az.gov/uri\\_qin/azgs/dlio/1665](http://repository.azgs.az.gov/uri_qin/azgs/dlio/1665). 


**Spencer, Jon E.; Ferguson, Charles A.; Richard, Stephen M.; McIntosh, William C.; AND Peters, Lisa**

2017      29.101      A partial compilation and database of <sup>40</sup>Ar-<sup>39</sup>Ar and K-Ar geochronologic data and sample locations in Arizona and southeastern-most California. *Arizona Geological Survey, Digital Information DI-48*, text 7 pp. + Primary Data Table [Excel], supporting data files [PDF]; Ar-Ar K-Ar database [Access], Ar-Ar geochron data tables [Excel], and copy of *Open-File Report 98-27* [Superstition data table], accessible online, [http://repository.azgs.az.gov/uri\\_qin/azgs/dlio/1719](http://repository.azgs.az.gov/uri_qin/azgs/dlio/1719). 

**Spencer, Jon E.; Wenrich, Karen J.; AND Cole, Trevor**


2015      29.102      Partial database for breccia pipes and collapse features on the Colorado Plateau, northwestern Arizona. *Arizona Geological Survey, Digital Information DI-42*, 5 pp., map plate, Shapefiles, and Excel workbook. [Includes substantial data from Wenrich, previously unpublished, for areas south of Grand Canyon Village and west of Kanab Creek. Data files accessible online through <http://repository.azgs.az.gov>.] 

**Stephen F. Booth Productions, AND Program Power Entertainment, Inc.**

2003      29.85      *Brightly of the Grand Canyon*. Norman Foster, director; Stephen F. Booth, producer; starring Joseph Cotton and Dick Foran. [No place]: Stephen F. Booth Productions and Program Power Entertainment, Inc. DVD. (Family Outdoor Adventure Classics.) [Interactive DVD, with "bonus featurettes" and "exclusive DVD-ROM features for your PC or MAC".] 


T

**Tellman, Barbara; Yarde, Rick [Richard]; AND Wallace, Mary G.**

1995      29.18      Where to find information about the history of Arizona rivers (a computerized bibliography). *University of Arizona, College of Agriculture, Water Resources Research Center, Issue Paper 17*, 3.5-inch diskette (DOS format), text 24 pp. [Several versions. Diskette label includes, "A computerized bibliography using Papyrus Retriever™".] 


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**TEMCO Ltd.**

1990 29.31 *Ninja Gaiden*. New York: Hi Tech Expressions, *under license from* TEMCO Ltd., Japan. [Computer action fantasy game; IBM-compatible, on 3.5-inch diskette. "Encounter obstacles and villains [*sic*] that are out to kill the Clan of the Dragon Ninja warrior. . . Ryu's quest takes you into the depths of the Grand Canyon."] 

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**Thielmann, Gabi**

2008 29.93 (CONCEPT) *Der Colorado : Wasser für den Wilden Westen. Colorado River : Water for the Wild West*. Grünwald: FWU Institut für Film und Bild, DVD + booklet (10 pp. [including wraps]). 40:00. (DVD production by msm-studios münchen GmbH, for FWU Institut für Film und Bild.) [Interactive DVD in German and English.] 


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**Trails Illustrated**


2001 29.56 *TrailSmart. 15 major national parks of the USA*. San Francisco: Wildflower Productions. CD. 

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**Trapp, R. A.; Schmidt, Nancy; Reynolds, S. J.; AND Horstman, K. C.**


1995 29.19 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. 

1996 29.20 AZGEOBIB, Version 2.1: A list of references on the geology of Arizona. *Arizona Geological Survey, Open-File Report 96-1*, 336 pp. and four 3.5-inch diskettes. 

1998 29.21 Physiographic areas in Arizona used by the Arizona Geological Survey. *Arizona Geological Survey, Digital Information Series 10*, 4 pp., 1 high-density diskette. 


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**Trek Interactive Multimedia**

2000 29.49 *Grand Canyon journey*. Sarasota, Florida: Trek Interactive. CD. (TrekInteractive Young Naturalist Series.) [Interactive multimedia; natural history.]   
[≡ REVIEWS AND NOTICES](#) [Houston, 2001, ITEM NO. 30.348](#)

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**Troll Microsquad**

1985 29.52 *I can read about Paul Bunyan*. Mahwah, New Jersey: Troll Associates, 5-1/4 inch computer diskette with four computer programs [for Apple computers], 1 sound cassette, and 1 paperback book. (Troll Micro Courseware.) 



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**Tuck, Fred**

- 1991 29.78 *Fly the Grand Canyon*. Norcross, Georgia: Hyacinth. [3-D wire-frame flight-simulator software for IBM-compatible computers; viewed with 3-D glasses.]   
 REVIEWS AND NOTICES Anonymous, 1991, ITEM NO. 30.1018; Sears, 1993, ITEM NO. 30.240
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**Turner, Robert L.**

- 1992 29.22 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. 
- 1992 29.23 Analytical data for stream sediment and soil samples from Grand Canyon 1° × 2° quadrangle, Arizona. *U.S. Geological Survey, Open-File Report 92-0229*, computer diskette, 1,668 analyses and introductory files. 
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**Twichell, David C.**


- 2003 29.47 Mapping the floor of Lake Mead (Nevada and Arizona): preliminary discussion and GIS data release. *U.S. Geological Survey, Open-File Report 03-320*, DVD. [Geographic Information System.]  DVD-DATA

**Twichell, David C., AND Cross, VeeAnn A.**

- 2009 29.104 Surficial geology of the floor of Lake Mead (Arizona and Nevada) as defined by sidescan-sonar imagery, lake-floor topography, and post-impoundment sediment thickness. *U.S. Geological Survey, Open-File Report 2009-1150*, CD-ROM. [Content of CD-ROM also accessible at [https://pubs.usgs.gov/of/2009/1150/.](https://pubs.usgs.gov/of/2009/1150/)]  CD-DATA
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U

**Ukledo** [firm]

- 2018 29.103 *Virtual Universe (VU) : an epic, story-driven, open world adventure in LivingVR™ powered by Virtual Reality, Artificial Intelligence and Blockchain : whitepaper*. [Cayman Islands]: Ukledo (Blockchain Research and Development Company), 24 [25] pp. [Descriptive document for open world virtual reality software. "Open world: A style of game n which minimal character limitations are placed on the gamer, allowing the gamer to roam and change a virtual world at will. In contrast to a progression-style game, a[n] open world game emphasizes roaming and allows a gamer to select tasks."] [See p. 22, "The Grand Canyon Experience (GCE)", a product introduced in 2013.] 
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AND LOWER COLORADO RIVER REGIONS

**U.S. National Aeronautics and Space Administration, Langley Research Center**

2017 29.115 *Grand Canyon Regions of Drought Impact (GC-ReDI)*. [Hampton, Virginia]: U.S. National Aeronautics and Space Administration, Langley Research Center, accessible through the NASA Technology Transfer Program at <https://software.nasa.gov/software/LAR-19017-1> or <https://github.com/NASA-DEVELOP/GC-ReDI>. [Accessed 22 August 2019.] [Description notes: "This Google Earth Engine software quantifies the decreasing water surface area in Lake Mead and the lower Grand Canyon and assesses the resulting changes in land cover—specifically, riparian vegetation and riparian sediment. The software provides images, statistics, and graphs to understand these changes."] 


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**U.S. National Park Service**

NO DATE 29.122 *General Management Plan : August 1995* [Grand Canyon National Park]. [Ca. 2001.] [Electronic document, comprising both the *Draft* and *Final General Management Plan and Environmental Impact Statement, Grand Canyon National Park, Coconino and Mohave Counties, Arizona* (U.S. National Park Service, 1995, ITEM NOS. 13.1328, 13.1329, respectively). [NOTE: The *Final General Management Plan and Environmental Impact Statement* refers in many ways back to the *Draft* plan, thus the *Draft* serves unusually as an integral part of the *Final* plan.]

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**Upshaw, Garth**

1999 29.51 (DEVELOPER) *Paul Bunyan*. Eugene, Oregon: Visions Technology in Education. CD, with guide [unpaginated]. (CultureWorld.) 

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V

**Van Gosen, Bradley S., AND Wenrich, Karen J.**

1991 29.24 Geochemistry of soil samples from 50 solution-collapse features on the Coconino Plateau, northern Arizona. *U.S. Geological Survey, Open-File Report 91-0594-B*, computer diskettes. 

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

**Verburg, Katherine Ott**

2010 29.75 *The Colorado River documents 2008*. [No place]: U.S. Bureau of Reclamation, Lower Colorado Region, DVD. [Comprises Bureau of Reclamation operations and management of Colorado River on behalf of the Secretary of the Interior, 1979-2008. The DVD further includes texts of Colorado River document volumes published 1933, 1948, 1978.] [For print volume, which excludes the reprinted volumes, see ITEM NO. 12.3314.] 


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**Virtual AdVentures**



- 1995 29.39 *Grand Canyon*. Seattle, Washington: Virtual AdVentures. CD. [Multimedia; general information.]   
 [REVIEWS AND NOTICES](#) [?]Anonymous, 1995, ITEM NO. 30.26
- 

**VTech Electronics North America, L.L.C.**


- 2007 29.89 *Dora TV adventure globe*. Arlington Height, Illinois: VTech® Electronics North America, L.L.C. (Viacom International, Inc.), video game. (Nick Jr. (Nickelodeon), Dora the Explorer.) [Dora the Explorer cartoon character geography game for young users. Includes "North America—the Grand Canyon".] 
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W


**Water Education Foundation**

- 1995 29.25 *Hydroexplorer—The Colorado River run*. Sacramento, California: Water Education Foundation, computer game. (Includes Teacher's Manual, 33 pp.)   
 [REVIEWS AND NOTICES](#) Anonymous, 1996, ITEM NO. 30.27
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**Wildflower Productions**

- \_\_\_\_\_ 29.37 *Topo! Interactive maps on CD-ROM. Grand Canyon, Bryce, and Zion National Parks: Grand Canyon*. San Francisco: Wildflower Productions. 2 CD-ROMs. 
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**Wilensky, Uri**

- 1999 29.126 *NetLogo Grand Canyon model*. Evanston, Illinois: Northwestern University, Center for Connected Learning and Computer-Based Modeling, <http://ccl/northwestern.edu/netlogo/models/GrandCanyon> (last accessed November 30, 2020). ["This model simulates rainfall on a patch of terrain on the eastern end of the Grand Canyon, approximately 6 miles (9.7km) on each side, where Crazy Jug Canyon and Saddle Canyon meet to form Tapeats Canyon."] 
- 

**Williams, John W.; Grimm, Eric C.; Blois, Jessica L.; Charles, Donald F.; Davis, Edward B.; Goring, Simon J.; Graham, Russell W.; Smith, Alison J.; Anderson, Michael; Arroyo Cabrales, Joaquin; Ashworth, Allan C.; Betancourt, Julio L.; Bills, Brian W.; Booth, Robert K.; Buckland, Philip I.; Curry, B. Brandon; Giesecke, Thomas; Jackson, Stephen T.; Latorre, Claudio; Nichols, Jonathan; Purdum, Timshel; Roth, Robert E.; Stryker, Michael; AND Takahara, Hikaru**


- 2018 29.116 The Neotoma Paleocology Database, a multiproxy, international, community-curated data resource. *Quaternary Research*, 89: 156-177. [This is an introduction to the Neotoma Paleocology Database (<https://www.neotomadb.org>), named for the

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woodrats or packrats of the genus *Neotoma* and not restricted to that taxon. The database "is a community-curated data resource that supports interdisciplinary global change research by enabling broad-scale studies of taxon and community diversity, distributions, and dynamics during the large environmental changes of the past." On this site, at [www.neotomadb.org/explorer](http://www.neotomadb.org/explorer), users may use metadata- or map-based query screens to search for specific information.] 


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**Wimmer, Reinhard; Wintersberger, Harald; AND Parthl, Günter**

2012      29.96      *Hydromorphologische Leitbilder. Band 4: Spezielle Typausprägungen.* Wien: Bundesministerium für Land- und Forstwirtschaft, Umwelt und Wasserwirtschaft, interactive DVD. (Fließgewässertypisierung in Österreich.) [See p. 19, "Canons", which notes the "classic example" is the Grand Canyon: "Das klassische Beispiel eines Canons bildet der Grand Canon im Südwesten der USA." (ENTIRE NOTE)] [In German.] 


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**Windhäuser, Olaf, AND Windhäuser, Magdalene**

1999      29.69      *Grand Canyon interactive : an interactive tourguide and journey through Grand Canyon.* OMW-Dienstleistungen, CD-ROM. [Title from disk.] [In German.] 

Z

**Zane Publishing**

1995      29.53      *U.S. geography : the Southwest.* Dallas, Texas: Zane Publishing. CD. 

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