

## DESCRIPTIONS OF EACH PART OF THE BIBLIOGRAPHY

Part No.	Heading	Scope	Content Notes
<p><a href="#">Blue underscored texts</a> are hyperlinks that redirect to those parts or sections of the bibliography</p> <p style="text-align: center;"><b>Bibliographical Works</b></p>			
1	<p><a href="#">Bibliographical Works</a></p>	<p><b>Bibliographies, indices, annotated catalogs, special reading lists, and related works that include the Grand Canyon or the lower Colorado River region</b></p> <p>An <a href="#">APPENDIX</a> provides the contents and arrangements of earlier editions of this bibliography.</p>	<p>The citations given here relate directly to the Grand Canyon and lower Colorado River, or which include sufficient references on the region to make them a valuable contemporary resource. Some works may extend their coverage beyond the limits of THE GRAND CANON.</p>

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## General and Particular-Interest Subjects in the Grand Canyon and Lower Colorado River Regions

2	<p><b><a href="#">General Publications</a></b></p> <p><b><a href="#">Including Historical, Geographical, Social, Cultural, Biographical, Popular, and Commonplace Works Concerning the Grand Canyon and Lower Colorado River Regions</a></b></p>	<p><b>Publications comprising history, regional geography, biography, narratives, essays, non-fictional literature, and incidental materials that relate to the Grand Canyon or the lower Colorado River region</b></p>	<p>This part includes publications that focus on the Grand Canyon and/or the lower Colorado River region, and writings that address larger areas but embrace these regions. It comprises material written for a popular audience as well as scholarly publications, everything that is, broadly speaking, about the humanities—except items that pertain more specifically to other parts of the bibliography. Publications that casually or cursorily note, in general ways, the Grand Canyon or lower Colorado River areas, or parts of them, are included. Travel literature that is more travelogue or memoir in presentation (rather than specific guides to attractions and facilities) are in this part. Material that may otherwise be arbitrarily classified as “Miscellaneous” (and not pertinent to other parts of the bibliography) is also in this part.</p>
3	<p><b><a href="#">The New York Times</a></b></p>	<p><b>Grand Canyon and lower Colorado River articles and reports in <i>The New York Times</i> from 1851 to Present</b></p> <p>Divided into two sections:</p> <p><b><a href="#">Section 1—Chronological List (includes articles without by-lines), Keyed by Subject to Parts of This Bibliography</a></b></p> <p><b><a href="#">SECTION 2—List of Articles That Have Author By-Lines (listed by author name)</a></b></p>	<p><i>The New York Times</i> has been widely available on microfilm, and now in digital format. The first issue of what originally was named <i>New-York Daily Times</i> appeared September 18, 1851 (changed to <i>The New York Times</i> in 1857). Its comprehensive and authoritative editorial view of national affairs, as well as its traditionally well-respected writing, makes it a useful resource on national perspectives of events and issues in the Southwest. The longevity of this newspaper allows it to serve the Grand Canyon-Colorado River bibliography back to the time of the first American expeditions through what would be Arizona, by Lorenzo Sitgreaves (1851) and Joseph C. Ives (1857-1858) as well as on the Colorado by John Wesley Powell (1869, 1871, 1872).</p>

<p>4</p>	<p><b>Memorials</b></p>	<p><b>Necrologies, obituary notices, and similar biographical memorials that refer to individuals of the Grand Canyon or lower Colorado River regions</b></p> <p>Divided into two sections:</p> <p><a href="#">Section 1—Memorials by Names of Authors</a></p> <p><a href="#">SECTION 2—Memorials by Names of Decedents</a></p>	<p>This part lists necrologies, obituary notices and some commemorative or retrospective memorials. Such sketches are cited here only if the citationist refers to the Grand Canyon or the Colorado River; others commemorate individuals who were prominent in the history of these regions. Traditional biographies as books and articles are listed in <a href="#">Part 2</a>. Various notices of persons who died while at Grand Canyon are included here. A few beloved animals are also memorialized.</p>
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<p>5</p>	<p><b><u><a href="#">Publications for People with Disabilities</a></u></b></p>	<p style="text-align: center;"><b>Publications for and which relate to the interests and needs of people with various impairments</b></p> <p style="text-align: center;">Divided into four sections:</p> <p><b><u><a href="#">Section 1— Publications Produced Especially for the Blind and Vision-Impaired</a></u></b></p> <p><b><u><a href="#">Section 2— Conventional Publications that Relate to the Experiences of the Blind and Vision-Impaired</a></u></b></p> <p><b><u><a href="#">Section 3— Publications that Relate to the People with Hearing Impairments</a></u></b></p> <p><b><u><a href="#">Section 4— Publications that Relate to People with Mobility or Activity Limitations</a></u></b></p>	<p><b><u><a href="#">Section 1:</a></u></b> Publications produced especially for the blind and vision-impaired. This section contains citations mostly for items that are in large-print or Braille formats and audio materials made expressly by agencies who produce materials for the blind and vision-impaired. Other, unusual formats are included, too; for example, tactile material in Moon Type. Many citations have been derived from Library of Congress catalogue records, and of course this part of the bibliography should not be construed to be comprehensive because there are likely to be many products for this audience that are not in accessible catalogs.</p> <p><b><u><a href="#">Section 2:</a></u></b> Conventional publications that relate to the experiences of the blind and vision-impaired. Unlike the publications cited in Section 1, these works are not in special formats for the blind or visually impaired, but are conventionally printed books and serials. Typically, they concern the experiences of blind and visually impaired people, and information of interest to them. Various citations may be repeated here from other parts of this bibliography.</p> <p><b><u><a href="#">Section 3:</a></u></b> Publications that relate to people with hearing impairments. The publications cited here concern the experiences of the deaf and hearing impaired within the region covered by this bibliography. They are relegated to their own appendix also to bring attention to readers the perspectives and needs of these people, who might otherwise be overlooked among other people with impairments. The citations are repeated here from other parts of this bibliography.</p> <p><b><u><a href="#">Section 4:</a></u></b> Publications that relate to people with mobility or activity impairments. citations in this appendix identify those publications that relate the Grand Canyon or Colorado River experiences of people with mobility or activity limitations, and publications that pertain to area travel information specifically for these people. By considering mobility or activity limitations as either physical or cognitive in nature as the result of congenital condition, chronic or acute disease, accident, or age-related condition, the definition embraces a wide spectrum of people. The citations are repeated here from other parts of this bibliography. While some people may consider that publications by or about amputees, for example, who perform activities as well as fully-limbed people, should not be itemized in this Section, they often speak of special functions or devices—sometimes personal perseverance—that allow them to be successful in these activities. Accordingly, the publications are added here for the sake of readers who may be inspired or interested by them.</p> <p>Not included here are publications that pertain to people who may experience socially related difficulties; for example, at-risk youth or people with mental health concerns or social distresses like physical or sexual abuse and personal emotional troubles. Publications pertaining to any of these issues as they may be addressed within the region covered by this bibliography will be found in <a href="#">Part 14</a>, which includes the subject area of sociology, and <a href="#">Part 15</a>, which addresses various aspects of physical and mental health. However, publications pertaining to certain programs that can address either or both physical and emotional concerns—such as the Wounded Warrior programs that conduct therapeutic trips on the Colorado River for military veterans who are physically wounded or suffer from post-traumatic stress disorder (PTSD) or other emotional conflicts—are consolidated in this appendix, repeated from scattered citations in other parts of this bibliography.</p> <p>Sections 2–4 repeat citations that are included in other parts of the bibliography.</p>
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6	<a href="#">Publications For and By Youth and Young Adults</a>	<p><b>Non-fiction and fiction for or by young and adolescent people that includes the Grand Canyon or the lower Colorado River</b></p> <p>Divided into two sections:  <a href="#">Section 1—Non-Fiction</a>  <a href="#">Section 2—Fiction</a></p>	<p>This part includes all those works traditionally referred to as “juvenile”; it lists works that also are appropriate for “young adult” audiences or otherwise published in young- or adolescent-reader venues. Included here are so-called graphic novels (or comic books) designed for younger audiences. Also included here are works created by young and adolescent authors. The “Fiction” section lists young-audience novels and other purely fictional works, including works written as “historical fiction” and matter that follows a fictional narrator or human character even though the content of the work may be factual.</p>
7	<a href="#">Fiction</a>	<p><b>Fiction for adult audiences that includes the Grand Canyon or the lower Colorado River region</b></p>	<p>This part lists only works of fiction, including folklore and the scripts for plays and other such productions. Particular-interest subjects that may be considered by many to be works of fiction—such as those relating to unidentified flying objects (UFOs), ancient Egyptian relics in Grand Canyon, and Creationist topics—are considered to belong either to “General” subjects or to the specific subject to which its subject applies (e.g., geology) and will be found in those other parts of this bibliography. This part includes works written as “historical fiction” and matter that follows a fictional narrator or human character even though the content of the work is factual; this includes scripts for plays and screenplays. Critical analyses of fictional works will be found in <a href="#">Part 2</a> (GENERAL PUBLICATIONS) of this bibliography.</p>
8	<a href="#">Verse</a>	<p><b>Poetry and verse about or which includes the Grand Canyon or the lower Colorado River region</b></p>	<p>This part contains individually published poems and verse and citations from collections and anthologies. Publications that are a substantial combination of prose and verse are listed here as well as in <a href="#">PART 2</a>.</p>

<p>9</p>	<p><a href="#">Travel and Trail Guides</a></p>	<p><b>Informational guides to routing, attractions and accommodations of hiking, camping, and land-, water-, and air-travel in the Grand Canyon region and the vicinity of the lower Colorado River (excluding Colorado River guides and geological field guides)</b></p>	<p>This part includes only those publications that provide route-finding information, seasonal or other data on accommodations, and time-limited information such as fees; specifically for hiking, camping, auto, air or river travel, lodging, restaurants, commercial recreational and educational opportunities, and scenic attractions. Resources include those for equestrian and other stock use, pet-related travel, and similar activities. Some travel advisories are also included here.</p>
<p>10</p>	<p><a href="#">Colorado River Guides</a></p>	<p><b>Informational guides to travel on the Colorado River between Glen Canyon Dam, Arizona, and Mexico</b></p>	<p>This part includes "strip maps" and other such specific guides for travelers.</p>

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## **PARTS 11 AND 12**

SEPARATE-COVERAGE GROUP

### **Lower Colorado River Region (Below Grand Canyon) Specialized Material**

See the [map](#) at beginning of this group that delineates the region labeled here as  
“Lower Colorado River”

PART 11 (LOWER COLORADO RIVER—ENVIRONMENT, NATURAL HISTORY, AND SPECIAL SCIENTIFIC, TECHNICAL, OR CULTURAL ISSUES) and PART 12 (LOWER COLORADO RIVER—WATER SUPPLY AND MANAGEMENT OF THE LOWER COLORADO RIVER, INCLUDING INFRASTRUCTURAL PROJECTS) are separated from the Grand Canyon focus of this bibliography to facilitate a more sensible breakdown for those users who may be interested only in the special issues of the lower Colorado River region. Generally speaking, this is the region from Lake Mead to the Colorado River delta, including the areas of the Salton Sea and the Imperial and Mexicali Valleys in California and Baja California, the uppermost Gulf of California in Mexico’s Biosfera Alto Golfo de California y Delta del Río Colorado and adjacent Reserva de la Biosfera del Pinacate y Gran Desierto. For this bibliography certain engineering projects along the Colorado River from Glen Canyon Dam to the delta are included in this group so as to keep citations about this genre together.

<p>11</p>	<p><a href="#"><u>Lower Colorado River Region (below Grand Canyon)</u></a></p> <p><a href="#"><u>Environment, Natural History, and Special Scientific, Technical, or Cultural Issues of the Lower Colorado River Region</u></a></p>	<p><b>Environment, natural history, and certain special issues (including agriculture, archaeology and ethnological studies) specifically about the lower Colorado River corridor and adjacent lands below Grand Canyon — from Lake Mead, Arizona–Nevada, and through the Arizona–Nevada–California corridor to the Colorado River delta region in Baja California and Sonora, Mexico, including the areas of the Salton Sea and Imperial and Mexicali Valleys; and issues pertaining to the adjacent portion of the Upper Gulf of California.</b></p> <p>Divided into five sections and an appendix:</p> <p><a href="#"><u>SECTION 1—Environment, Ecology, Biology, and Public Health and Safety</u></a></p> <p><a href="#"><u>SECTION 2—Geology, Paleontology, Hydrology, and Related Disciplines</u></a></p> <p><a href="#"><u>SECTION 2A—Separately Published Geologic and Special Maps</u></a></p> <p><a href="#"><u>SECTION 3—Archaeology, Indigenous Cultures and Issues, and Contemporary Cultural Resources and Preservation</u></a></p> <p><a href="#"><u>SECTION 3A—General Guide to Documentation for Places in the Lower Colorado River Region Listed in the National Register of Historic Places and in the National Historic Landmark System Administered by the U.S. National Park Service</u></a></p> <p>An <a href="#"><u>APPENDIX</u></a> provides guides to the quadrangle systems of topographic and geologic maps in the lower Colorado River region used by the U.S. Geological Survey and by the [México] Instituto Nacional de Estadística y Geografía and likewise for geological maps of the Servicio Geológico Mexicano.</p>	<p>This part includes references about all disciplines of environment and natural history, restricted to the region along the lower Colorado River corridor from Lake Mead to the delta. It includes geological field guides and geologic maps for this region, and hydrologic investigations of the river-proper as limited to this reach, including studies that embrace the part of Lake Mead that has inundated the lower Grand Canyon. Studies pertaining to the Gulf of California that embrace in some measure the Colorado River delta region are cited here. Selected archaeological and ethnological investigations of the river corridor are also in this part, as well as the Lake Mead and lower Virgin River region. Natural-history and environmental studies related to the Salton Sea area are in this part. Water-quality and health issues relating to the waters of the lower Colorado River, below Grand Canyon, are also included. Administrative reports and study for areas in this geographic region are in this part. Some specialized reports that pertain to environmental activities in the U.S. Army Yuma Proving Ground and U.S. Marine Corps Air Station Yuma are also found in this part. Most general references related to agriculture are excluded from this bibliography due to the far-reaching and specialized nature of such material, which place it in the realm of agricultural methods in general; only those that pertain to specific issues in the lower Colorado River region and its irrigation projects are included.</p>
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<p>12</p>	<p><a href="#"><u>Lower Colorado River Region (below Grand Canyon)</u></a></p> <p><a href="#"><u>Water Supply, Management, and Policy</u></a></p>	<p><b>Water management issues of the Colorado River between Lake Mead and the Gulf of California, and associated infrastructure – with added coverage for unrealized and unrelated infrastructural projects between lower Glen Canyon and the Gulf of California</b></p> <p>Divided into two sections:</p> <p><a href="#"><u>SECTION 1— Water Supply and Issues of Management and Policy Relating to the Lower Colorado River, and Associated Infrastructural Projects – with expanded coverage for unrealized projects in lower Glen, Marble, and Grand Canyons</u></a></p> <p><a href="#"><u>SECTION 2— SUPPLEMENTARY COVERAGE: Infrastructural Projects Along the Colorado River Between Lower Glen Canyon and Mexico That Are Not Related To Water Management Facilities</u></a></p>	<p>This part includes all references that deal with the dams and their appurtenant structures, and water-control procedures and facilities in the lower Colorado River, from Lake Mead to the delta. Documents contained here also relate to irrigation, flood-control measures, and human-controlled water supply in the lower Colorado River; among them are project-specific documents and articles about the accidental Colorado River breakout and the inundation of the Salton sink during the first decade of the 20th century. (Publications that relate to the natural breakout of the Colorado into the Salton Sink in 1891 and historically earlier events are found in <a href="#">Part 11, Section 2</a> of the bibliography.) Legal issues of Colorado River water, such as interstate concerns and international treaties, are included in this part, as are some legal issues relating to the Law of the River and similar administrative considerations involving apportionment and distribution of water. General commentaries on water management in the the Colorado River basin and the region are also listed, which may include selected items that relate to trans-boundary aquifer management. Selected engineering projects in other areas of the lower Colorado River region, pertinent to this bibliography, are also noticed here. Further included in this part are items that pertain more to architectural or ornamental aspects of the facilities listed herein. Legislative items that directly relate to the building of Hoover Dam are included in this part so as to group them more pertinently with publications about water management and infrastructure. Similarly, items relating to power production and supply, as a function of management of the Colorado River, are listed in this part. International treaties between the United States and Mexico, pertaining to water supply and management of the Colorado River, are also included in this part. Selected items, pertinent to this bibliography but relating to engineering projects in lower Glen Canyon, Marble Canyon, and Grand Canyon, are added here; as a means to accommodate the literature on proposed dams and railroads that were never constructed, and bridging projects in these areas (<i>i.e.</i>, Navajo Bridges and Kaibab Bridge). Also listed here are some documents related to Glen Canyon Dam, although the dam is otherwise extralimital to this bibliography. Construction projects outside the immediate Colorado River corridor will be listed with items of general interest (for example, the Boulder City, Nevada, Bypass, part of Interstate 11).</p> <p><i>Omitted</i> from Part 12, Section 2 are items that relate to the survey for the Denver, Colorado Cañon &amp; Pacific Railroad—the Stanton Expedition—of the late 19th century, inasmuch as it is more well known as a Colorado River boating expedition with a photographic record, with significant numbers of historical items written about it. Never built, few published items relate to the technical details of engineering problems of the railroad; none (of course) to construction news. Also omitted in this part are items that relate to the reconstruction of London Bridge in Lake Havasu City, Arizona. This is a tourism destination with no contribution the infrastructure of lower Colorado River projects.</p>
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## Human Affairs

13	<p><a href="#">Administrative and Management Issues in the Grand Canyon and Lower Colorado River Regions</a></p>	<p><b>Publications about executive, legislative, and judicial actions, management issues, and concomitant concerns that pertain to federal, state, and Native American lands in the Grand Canyon and lower Colorado River regions. Occasional additional items regarding topics of administrative interest in the States of California, Nevada and Utah as they directly relate to the region covered here, are likewise included here, as is matter relating to the formulation and management of World Heritage Sites and other such places of international interest.</b></p>	<p>This part comprises items broadly relating to administrative or operational issues and reports of activities for Grand Canyon National Park (including Colorado River concerns), its predecessor administrative units, and for other federal, state, and Native American lands and facilities. These areas include the Grand Canyon–Parashant National Monument, Gold Butte National Monument, Vermilion Cliffs National Monument, that part of Glen Canyon National Recreation Area between Glen Canyon Dam and Lees Ferry, Lake Mead National Recreation Area, and lands and facilities administered by the U.S. Bureau of Reclamation, U.S. Bureau of Land Management, and U.S. Forest Service. More than documents about bureaucratic procedures and regulations are listed. Added here are items about public commentary on, and responses to, proposed and implemented studies and management decisions; and published opinions and commentary about the protection, operation, and public use of the lands. Other management issues, for example those that relate to the operation of the Navajo Generating Station near Page, Arizona, are included here. Items that relate to natural quiet in Grand Canyon are included in this part if they pertain specifically to management issues (items that pertain to the scientific study of ambient noise and the natural soundscape of Grand Canyon are consolidated with <a href="#">Part 18</a> (Physical Environment) of this bibliography). Documents that are Environmental Impact Statements, and similar administrative and guidance documents, are mostly included in this part because they often embrace multiple areas of administrative oversight and are not solely focused on ecological concerns as might be inferred from the title; grouping all such management documents together in this bibliography is more sensible. Exceptions are those documents that are specifically or predominantly biological or ecological in perspective, which are included in <a href="#">Part 19</a> (Biology and Ecology) or in <a href="#">Part 11, Section 1</a> (for those items that pertain to lower Colorado River region locales). Items regarding administrative issues that pertain to non-federal areas adjacent to these federal areas are listed here. Also included in this part are some items that pertain to cession of territories and boundary issues in the Grand Canyon–lower Colorado River region. Selected items pertaining to the administration of Glen Canyon Dam, and position statements by individuals or organizations, as inferentially affecting the region downstream from it, also are included here. Items about personnel matters in the areas of concern here are listed in this part. Matter relating to the creation and management of World Heritage Sites and such places of international interest are included here, such as those under UNESCO and IUCN. <i>As a pragmatic matter of bibliography all items relating to water-management in the lower Colorado River, including legislative and judicial actions regarding dams and other water-management infrastructure, and international treaties and agreements pertaining to these subjects, are consolidated with <a href="#">Part 12, Section 1</a>.</i></p>
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14	<p><a href="#"><u>Sociology, Recreation, Education, Economics, and Related Subjects in the Grand Canyon–Lake Mead Region</u></a></p>	<p><b>Commentaries, themes and analyses relating to sociological, recreational, educational, and economic issues for Grand Canyon and vicinity</b></p>	<p>This part lists analytical studies and reports that relate to socio-economic concerns, including visitor appreciation and social “quality of wilderness” studies, and items pertaining to teaching and program instruction about the human and natural history of the Grand Canyon and Colorado River. Because the waters of Lake Mead encroach upon the lower portion of Grand Canyon, for bibliographical convenience this part is expanded to include all items that relate to social and other issues in the Lake Mead region overall. Added here are educational and other materials that thematically embrace the greater Grand Canyon region, the activities of which are not necessarily conducted in the region itself.</p>
15	<p><a href="#"><u>Health and Safety in the Grand Canyon–Lake Mead Region</u></a></p>	<p><b>Issues relating to human health and safety and the well-being of the public and the professional community in the Grand Canyon region or on the Colorado River through the Grand Canyon, and on Lake Mead; including items pertaining to accidents and mishap</b></p>	<p>This part lists items relating to human health, safety, and public well-being in the national park and immediate vicinity. Because the waters of Lake Mead encroach upon the lower portion of Grand Canyon, for bibliographical convenience this part is expanded to include all items that relate to public health and safety in the Lake Mead region overall. However, issues relating to Lake Mead pollution and its attendant concerns are relegated to <a href="#"><u>PART 11, SECTION 1</u></a> of this bibliography. Items pertaining to issues of workplace harassment are included in Part 15. Items pertaining to infrastructure that has direct bearing on the topics of health and safety are included here as well. This part also lists documents on therapeutic programs, mishaps, rescues, accident investigations, missing persons, and cautionary reports by example.</p>
16	<p><a href="#"><u>Archaeology and Cultural Resources in the Grand Canyon Region</u></a></p>	<p><b>Archaeological history and research in the Grand Canyon region, including now-historical and cultural activities of the 16th to 20th centuries</b></p> <p>An <a href="#"><u>APPENDIX</u></a> provides a “General Guide to Documentation for Places in the Greater Grand Canyon Region Listed in the National Register of Historic Places and in the National Historic Landmark System Administered by the U.S. National Park Service”.</p>	<p>This part includes items that relate to archaeological surveys and studies of human remains, artifacts, and cultures during the period from early human inhabitation of the Grand Canyon region to recent historical activities of the 16th to 20th centuries, including historical-structures reports.</p>

<p>17</p>	<p><a href="#"><u>Native Americans in the Grand Canyon Region</u></a></p>	<p><b>Native Americans of the Grand Canyon region and issues concerning their cultures and activities in the canyon, on the Colorado River, and in the national park, monuments and forests; other activities and concerns in the immediate region; and specific publications relating to cultures particularly of the traditional recent residents of Grand Canyon</b></p>	<p>This part focuses on documents that pertain to the Havasupai and Hualapai tribes, traditional recent residents of the Grand Canyon, including social and other concerns of these tribes, and activities on behalf of these indigenous peoples. Other Native American tribes are included in this part only with respect to their activities in or at the Grand Canyon or with respect to the canyon in their heritage. Items relating to tribal cultural claims to the Colorado River are also included. Anthropological studies in general, which include the Havasupai and Hualapai in particular, are also listed here.</p>
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## Environmental, Biological and Earth Sciences

18	<p><a href="#">Physical Environment of the Grand Canyon and the Southwest Region</a></p>	<p><b>Physical, chemical, and comparable aspects of land, water, and atmospheric environments of the Grand Canyon region; interdisciplinary research of the environment in the Grand Canyon region and the Colorado River corridor through the Grand Canyon; and atmospheric and climatological investigations relating to the Colorado River Basin or the American Southwest that embrace the Grand Canyon and the hydrographically defined Lower Colorado River Basin</b></p>	<p>This part includes environmental studies that are not organismically specific and publications that address general environmental issues, including water-quality studies, atmospheric, climatology, and astronomy. Broadly based investigations embracing the Southwest are included here so as to accommodate the hydrographically defined Lower Colorado River Basin. Documents that are Environmental Impact Statements, and similar administrative and guidance documents, are mostly included in <a href="#">PART 13</a>. ADMINISTRATIVE AND MANAGEMENT ISSUES because they usually embrace multiple areas of administrative oversight, are not solely focused on ecological concerns as might be inferred from the title, and may offer a variety of management alternatives. Exceptions are those documents that are specifically or predominantly biological or ecological in perspective. Items that relate to astronomical observations, and the science of astronomy generally, are included in Part 18. Items that relate to the scientific study of ambient noise and the natural soundscape of Grand Canyon are included in Part 18; items that relate specifically to non-environmental management issues of "noise" are relegated to Part 13. Items relating to environmental responsibility particularly by government agencies, such as the use of hybrid electric vehicles, are included in Part 18.</p>
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<p>19</p>	<p><a href="#">Biology and Ecology of the Grand Canyon Region</a></p>	<p><b>Publications on organismal biology, ecology, and modeling and research applications relating to biological communities in the Grand Canyon ecoregion, including the Colorado River corridor through the Grand Canyon; and general items relating to organismal resources in the region</b></p>	<p>This part includes documents on biological censuses and the biology and ecology of animal, plant, and protist organisms as occurring in the Grand Canyon region, including the Colorado River below Glen Canyon Dam; and that part of Lake Mead that encroaches into western Grand Canyon. This part also includes biological reports and studies that have been part of scientific investigations conducted for the purpose of environmental management of public lands in the Grand Canyon region. Also included here are general articles about organismally related information, resources and activities; for example, fishing, hunting, and conservation. Documents that are Environmental Impact Statements, and similar administrative and guidance documents, are mostly included in <a href="#">PART 13. ADMINISTRATIVE AND MANAGEMENT ISSUES</a> because they usually embrace multiple areas of administrative oversight, are not solely focused on ecological concerns as might be inferred from the title, and may offer a variety of management alternatives. Exceptions are those documents that are specifically or predominantly biological or ecological in perspective. Documents pertaining to the experiences of field work in this region are included in this part.</p>
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<p>20</p>	<p><a href="#"><u>GCES—Glen Canyon Environmental Studies Program</u></a></p>	<p><b>Glen Canyon Environmental Studies program technical reports and related documents produced under the monitoring and research programs of the Glen Canyon Dam Environmental Impact Statement as mandated by Congress</b></p> <p><i>[This section is no longer updated, the GCES program having ended.]</i></p>	<p>The Glen Canyon Environmental Studies (GCES) were created to perform as an interagency body under the direction of the U.S. Department of the Interior, Bureau of Reclamation. It responded to a Congressional mandate to develop an Environmental Impact Statement on the effects of hydropower production at Glen Canyon Dam on the Colorado River and its riparian community downstream through lower Glen Canyon, Marble Canyon, and the Grand Canyon. The EIS also examined the potential impacts of management decisions on social and economic issues. The GCES went through two phases, and the EIS was completed in 1995.</p> <p>The GCES was such an important part of the scientific and cultural study of the Grand Canyon, specifically in the previously little-studied Colorado River corridor, that the products of these studies are a bibliography in their own right. Many of the documents are interdisciplinary, thus also a justification for listing them separately, rather than in several places throughout this bibliography. Historians of science will also notice in this list that some of the subjects were reported in other scientific publications. A few of the reports were also released in their entirety as U.S. Geological Survey Open-File Reports or publications of the National Academy Press; these are itemized here. Most of the reports listed here, and voluminous supporting data, are archived at the Grand Canyon Monitoring and Research Center, Flagstaff, Arizona. Complete information for this list is still being compiled.</p> <p>Enumerated entries following the sequence for this bibliography do not necessarily pertain to individual reports; some refer to study groups, various reports of which are archived.</p>
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<p>21</p>	<p><a href="#"><u>Geology and Paleontology of the Grand Canyon Region</u></a></p>	<p><b>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</b></p>	<p>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 Mesozoic strata in the immediate Grand Canyon area, 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), modern-groundwater studies of the region (except water-quality studies, and general reports on topographic and geologic mapping in the region. Some works relating to geological aspects of physical geography are also included here, as are also 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.</p>
<p>22</p>	<p><a href="#"><u>Hydraulics and Hydrogeology of the Colorado River in Lower Glen, Marble, and Grand Canyons</u></a></p>	<p><b>Hydrological and sedimentological studies of the Colorado River mainstem from Glen Canyon Dam to the beginning of Lake Mead</b></p>	<p>This part encompasses all physical studies of the water flow (hydrology) of the Colorado River in Grand Canyon, applied research on its carried and bottom sediment, and the effects of the river's fluctuating flow on the distribution of sediment on the banks of the river.</p>
<p>23</p>	<p><a href="#"><u>Geological Field Guides in the Grand Canyon Region</u></a></p>	<p><b>Geological field guides and road logs for the Grand Canyon and vicinity, and for the Colorado River corridor in Grand Canyon</b></p>	<p>This part includes all publications that are intended to serve as geological field guides to routes and specific localities in the Grand Canyon and vicinity. Included among them are all geological guides to the Colorado River through the Grand Canyon.</p>



24	<p><a href="#"><u>Geologic and Special Topographic Maps in the Grand Canyon Region</u></a></p>	<p>Separately published geologic, geodetic, and special topographic maps of the Grand Canyon region; with summary guides to U.S. Geological Survey topographical quadrangles in the region An <a href="#"><u>APPENDIX</u></a> provides graphical and other guides to topographic quadrangle maps of the Grand Canyon region produced by the U.S. Geological Survey.</p>	<p>This list includes only separately published maps, and selected atlas sheets. Regional maps embracing the Grand Canyon area are included.</p>
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<p><a href="#"><u>GO TO BIBLIOGRAPHY TABLE OF CONTENTS</u></a>  <a href="#"><u>GO TO NAVIGATION PAGE</u></a></p> <p style="text-align: center;"><b>Graphic, Audio and Digital Media</b></p>			
25	<p><a href="#"><u>General Maps of the Grand Canyon and Lower Colorado River Regions</u></a></p>	<p>Separately published general and specialized maps, charts, and atlas sheets that include the Grand Canyon or the lower Colorado River region — excluding geologic and topographic maps</p> <p>Divided into two sections:</p> <p><a href="#"><u>SECTION 1—Selected Historical Maps of the 16th–18th Centuries</u></a></p> <p><a href="#"><u>SECTION 2—Maps of the 19th–21st Centuries</u></a></p>	<p>There are hundreds more maps that surely could be listed in this bibliography, but only those that have come to the compiler’s attention are included. The catalogues of map dealers include many maps that cover the Southwest; unfortunately, their citations are incomplete and often the illustrations are too small to read pertinent author and publisher data from the map, and thus these useful issues are not included in the bibliography.</p>

26	<p><a href="#"><u>Audio-Visual Works and Photographic Publications on the Grand Canyon and Lower Colorado River Regions</u></a></p>	<p><b>Audio-visual works (silent and sound motion pictures, videotapes, and compact disks [CDs, DVDs, etc.]) and photographic publications (film strips, slides and other transparencies, and stereographs) relating to the Grand Canyon or the lower Colorado River region</b></p> <p><a href="#"><u>APPENDICES—General Guides to 3-D Photographically Related Publications</u></a></p> <p><a href="#"><u>APPENDIX 1—General Guide to Commercially Produced 3-D Transparency Products</u></a></p> <p><a href="#"><u>APPENDIX 2—General Guide to Commercially and Governmentally Produced Stereographs</u></a></p> <p><a href="#"><u>Addendum—3-Dimensional Productions Other Than Transparency Products or Stereographic Cards</u></a></p>	<p>This part cites film-media productions, including silent and sound motion pictures, photographic sets such as film strips and other transparency products, 3-D film-based productions, and stereographs; and electronic-image media like videos, CDs, DVDs, and some broadcast productions (particularly those that have been redistributed in electronic media). These citations include items for younger audiences. Resources that are accessible only online are not included. (Publications that are only compilations of halftone or similarly mass produced images, such as view books for the tourist market, are cited in <a href="#"><u>Part 2</u></a> [General Publications].).</p>
27	<p><a href="#"><u>Audio Works and Musical Scores on the Grand Canyon and Lower Colorado River Regions</u></a></p>	<p><b>Audio works (narrative and musical) — audio tapes, analog recordings, and audio-only digital disks (CDs, DVDs, etc.)— and musical scores relating to the Grand Canyon or the lower Colorado River region</b></p> <p><a href="#"><u>Musical scores are listed in a brief APPENDIX</u></a></p>	<p>This part lists audio recordings (oral and instrumental) and printed musical scores. Resources available only online are not included. Also included here are pertinent annotated guides to available audio recordings.</p>
28	<p><a href="#"><u>Separate Imagery in the Grand Canyon and Lower Colorado River Regions</u></a></p>	<p><b>Published photographs and works of art that are not accompanied by textual material, appearing by themselves with or without legend</b></p>	<p>This part includes only single, extraneous items; for example, a reproduction of a single painting, or specialized folios of prints, without accompanying text other than the legend. Photographs within articles or books that are credited to specific people or sources are not listed separately in this bibliography.</p>

<p>29</p>	<p><a href="#"><u>Computer and Interactive Media on the Grand Canyon and Lower Colorado River Regions</u></a></p>	<p><b>Computer media and selected digital interactive media for personal devices, which include the Grand Canyon or the lower Colorado River region</b></p>	<p>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 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.</p> <p>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.</p>
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## Other Guides

30	<p><a href="#">Book Reviews and Similar Notices Regarding Publications About the Grand Canyon and Lower Colorado River Regions</a></p>	<p><b>Critical reviews and notices of books, articles, films, and products</b></p>	<p>This part includes critical reviews at length in scholarly publications as well as promotional reviews, notices in general-interest publications, and cursory editorial or readers’ notices. Reviews are included in this bibliography only if they relate to publications about the Grand Canyon or lower Colorado River specifically. For tangential works the review must mention the canyon or the river. Product reviews include those for audio and audio-visual productions, and computer software.</p>
31	<p><a href="#">Newspaper Guide for the Grand Canyon and Lower Colorado River Regions</a></p>	<p><b>Brief guide to newspapers of the Grand Canyon and lower Colorado River regions</b></p>	<p>Newspapers are a valuable resource to the historian. Long-running papers of any town or city are important historical documents, but researchers who bask in the thrill of finding the obscure and unusual anecdote, small-town and out-of-print newspapers are a mine of information.</p> <p>This list of newspapers does not imply that it is exhaustive, nor is there any guarantee that all of them have had coverage of events or people of the immediate Grand Canyon or lower Colorado River regions. But within these regions it is likely that newspapers published there have had a higher frequency of Canyon- and River-related items than the newspapers of more distant places. This list provides a sampling of newspapers of northern Arizona, southern Nevada, and southern Utah. A special supplement to the Arizona list includes newspapers of that intersection of the far Southwest, Yuma.</p>

<p>32</p>	<p><a href="#">Marginalia Relating to the Grand Canyon or Lower Colorado River Region</a></p>	<p><b>Items not about the Grand Canyon or Colorado River <i>per se</i> but having a venue in the Grand Canyon or related area in the vicinity, items unrelated to but utilizing the Grand Canyon in non-metaphorical senses such as topics used with direct application to the Grand Canyon without occurring there; and occasional items similarly relating to the lower Colorado River region</b></p>	<p>This part contains citations which are themselves not about the Grand Canyon but refer to the Grand Canyon as a venue—for example, meetings and conferences about subjects other than the Canyon held at Grand Canyon. Similarly there are marginal references to nearby Grand Canyon locales, which are embraced within this bibliography, and significant commemorative uses of the Grand Canyon name. While these citations do not specifically contain information about the Canyon, they are peripherally a part of the history of and attention to the Canyon, emphasizing its cultural reach globally and in human attentions. Similarly, a few items relating to the lower Colorado River are noted here.</p>
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Regarding Parts 33 and 34, which are no longer a part of THE GRAND CANON compilation, see separate comments ([Previously Used Parts Removed](#)) in the “Coverage and Format” section of the Introduction.

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