

Selected references for the Geology of Death Valley National Park and surrounding region

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The following list of approximately 3,750 references was collected from National Park Service and U.S. Geological Survey files, from a literature search using GEOREF, and from references supplied by participants of the April 9-11, 1999 "Conference on Status of Geologic Research and Mapping in Death Valley National Park" (see attached proceedings volume). References that are incomplete or seem to have errors are marked "reference incomplete" and should be used with caution. The list has not been heavily edited for consistency, nor has a substantial effort been made to cull or prioritize the list. However, it should serve as a great resource for those uninitiated in Death Valley geology. The compilers are greatly indebted to Blair Davenport (NPS), Mel Essington (NPS), Angela Jayko (USGS), and Chris Menges (USGS), each of whom supplied large source lists

Some of the references have been coded as to the subject matter using the following codes. These codes follow the references.

C	Geochemistry
G	Geophysics
H	Hydrology
I	Imagery/remote sensing
M	Mapping (geologic)
N	Neotectonics
Q	Quaternary geology, geomorphology, paleoclimate
S	Stratigraphy, paleontology
T	Structure, tectonics

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The exposed geology of the Death Valley area presents a diverse and complex set of at least 23 formations of sedimentary units, two major gaps in the geologic record called unconformities, and at least one distinct set of related formations geologists call a group. The oldest rocks in the area that now includes Death Valley National Park are extensively metamorphosed by intense heat and pressure and are at least 1700 million years old. These rocks were intruded by a mass of granite 1400 Ma (million years ago). Death Valley National Park is a harsh desert environment with some of the most intriguing geological features and rare animal life in the United States. Death Valley National Park gets about 2 inches of rain each year. The mountains that buffer the valley cause drought conditions by inhibiting storm movement, which weakens storms before they reach the valley, and this results in less rain. Located completely within the park, Death Valley stretches for 156 miles, and six mountain ranges surround it. The harsh geography varies from Telescope Peak, the highest peak in the park, to Badwater Basin, located 282 feet below sea level. The Mojave Desert blankets a large portion of the valley and can be recognized by the sparse scrub vegetation and large number of cacti.