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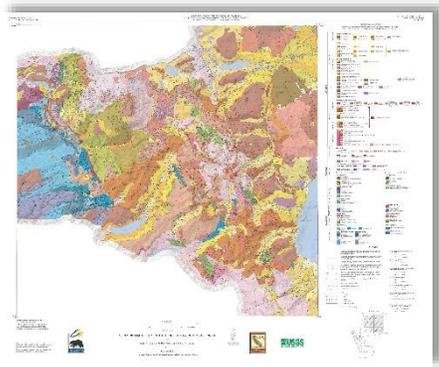
PUBLICATION RELEASE
MAP SHEET SERIES

November 2014

Map Sheet 61
Geologic Map of Part of Eastern Placer County,
Northern Sierra Nevada, California

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This new geologic map shows the distribution of major rock types that make up the Sierra Nevada in part of eastern Placer County, west of Lake Tahoe and south of Interstate 80. Topographically, the western slope of the Sierra Nevada is relatively gentle, while the eastern slope is steep and broken by late Cenozoic faults along which the range is being uplifted and tilted westward. Part of the eastern range-front fault system crosses the map area between Donner Pass and Lake Tahoe and separates large tracts of Paleozoic and Mesozoic metamorphic and plutonic rocks exposed in the west from Tertiary and Quaternary volcanic rocks in the Truckee and Tahoe basins to the east. Metamorphosed Paleozoic and Mesozoic oceanic and volcanic-arc rocks are exposed over much of the map area. These include parts of the Shoo Fly Complex, an accretionary prism of oceanic rocks and trench-fill deposits, overlying volcanic arc rocks of the Taylorsville sequence and later Permian and Mesozoic rocks. Intruding the metamorphic rocks are plutonic rocks of the Sierra Nevada batholith, which range in age from Middle Jurassic to Early Cretaceous. Tertiary volcanic rocks unconformably overlie the metamorphic and plutonic rocks in large parts of the mapped area. Evidence for four periods of Pleistocene glaciation is recognized in extensive moraine, till, and outwash deposits along the upper Truckee River and its tributaries.



This publication is available as a printed map at 1:48,000 scale with an accompanying 37 page pamphlet.

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