

EXPLANATION		IGNEOUS AND META-IGNEOUS ROCKS	
	Dune sand		Recent volcanic: Qv-rhyolite; Qv-a-andesite; Qv-b-basalt; Qv-p-pyroclastic rocks
	Alluvium		
	Stream channel deposits		
	Fan deposits		
	Basin deposits		
	Salt deposits		
	Quaternary lake deposits		
	Glacial deposits		
	Quaternary nonmarine terrace deposits		
	Pleistocene marine and marine terrace deposits		Pleistocene volcanic: Qp-rhyolite; Qp-a-andesite; Qp-b-basalt; Qp-p-pyroclastic rocks
	Pleistocene nonmarine		Quaternary and/or Pliocene cinder cones
	Plio-Pleistocene nonmarine		
	Undivided Pliocene nonmarine		
	Upper Pliocene marine		Pliocene volcanic: P-rhyolite; P-a-andesite; P-b-basalt; P-p-pyroclastic rocks
	Upper Pliocene nonmarine		
	Middle and/or lower Pliocene nonmarine		
	Middle and/or lower Pliocene marine		
	Undivided Miocene nonmarine		
	Upper Miocene marine		Miocene volcanic: M-rhyolite; M-a-andesite; M-b-basalt; M-p-pyroclastic rocks
	Upper Miocene nonmarine		
	Middle Miocene marine		
	Lower Miocene marine		
	Oligocene nonmarine		Oligocene volcanic: O-rhyolite; O-a-andesite; O-b-basalt; O-p-pyroclastic rocks
	Oligocene marine		
	Eocene nonmarine		Eocene volcanic: E-rhyolite; E-a-andesite; E-b-basalt; E-p-pyroclastic rocks
	Eocene marine		
	Palocene nonmarine		
	Palocene marine		
	Cenozoic nonmarine		Cenozoic volcanic: C-rhyolite; C-a-andesite; C-b-basalt; C-p-pyroclastic rocks
	Tertiary nonmarine		Tertiary intrusives (hypabyssal) rocks: T-r-rhyolite; T-a-andesite; T-b-basalt; T-p-pyroclastic rocks
	Tertiary lake deposits		Tertiary volcanic: T-r-rhyolite; T-a-andesite; T-b-basalt; T-p-pyroclastic rocks
	Tertiary marine		
	Undivided Cretaceous marine		
	Upper Cretaceous marine		Franciscan volcanic and metavolcanic rocks
	Lower Cretaceous marine		Mesozoic granitic rocks
	Knoxville Formation		Mesozoic basic intrusive rocks
	Upper Jurassic marine		Mesozoic ultrabasic intrusive rocks
	Middle and/or Lower Jurassic marine		Jura-Trias metavolcanic rocks
	Triassic marine		
	Pre-Cretaceous metamorphic rocks (s = limestone or dolomite)		Pre-Cretaceous metamorphic rocks
	Pre-Cretaceous metasedimentary rocks		Pre-Cenozoic granitic and metamorphic rocks
	Paleozoic marine (s = limestone or dolomite)		Paleozoic metamorphic rocks
	Permian marine		Permian metamorphic rocks
	Undivided Carboniferous marine		Carboniferous metamorphic rocks
	Pennsylvanian marine		
	Mississippian marine		
	Devonian marine		Devonian metamorphic rocks
	Silurian marine		Devonian and pre-Devonian? metamorphic rocks
	Pre-Silurian metamorphic rocks		Pre-Silurian metamorphic rocks
	Ordovician marine		Pre-Silurian metamorphic rocks
	Cambrian marine		
	Cambrian-Precambrian marine		
	Undivided Precambrian metamorphic rocks		Undivided Precambrian granitic rocks
	Later Precambrian sedimentary and metamorphic rocks		
	Earlier Precambrian metamorphic rocks		

Prepared by the Army Map Service (AGS), Corps of Engineers, U. S. Army, Washington, D. C. Compiled in 1957 from United States Quadrangles 1:250,000 and 1:100,000, 1:62,500, U. S. Geological Survey and AMS, 1:94,250. Planimetric detail traced by photogrammetric methods. Horizontal and vertical control by USGS and CE. Map field checked, 1958.

Land not prepared by U. S. Geological Survey, 1960.

Submarine contours adopted from Smeagol and Emery Special Paper No. 31, Geol. Soc. America

SUBMARINE CONTOUR INTERVAL 300 FEET

Local depressions

Limit of danger; Reef

Rocky; Awash; Sunken

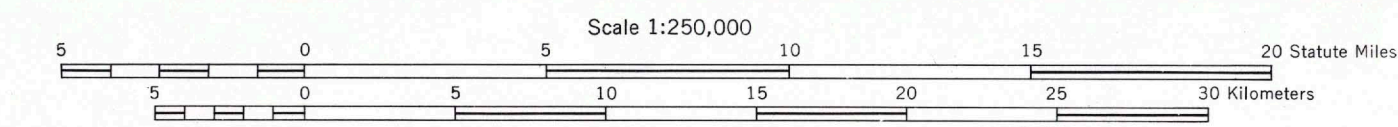
Fathomless flat

Intermittent or dry stream

Marsh or swamp

Contact (Dashed where approximately located, gradational or inferred)

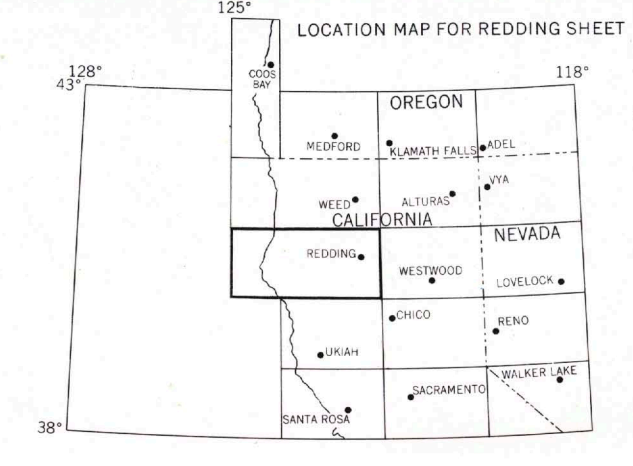
Fault (Dashed where approximately located; dotted where concealed)



Scale 1:250,000

CONTOUR INTERVAL 200 FEET
 WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

GEOLOGIC MAP OF CALIFORNIA
 OLAF P. JENKINS EDITION
REDDING SHEET
 COMPILATION BY RUDOLPH G. STRAND 1962
 SECOND PRINTING 1969



INDEX TO GEOLOGIC MAPPING COMPLETE INDEX ON EXPLANATORY DATA SHEET

1. Albert, J. P. (in press)
2. Albert, J. P. and Robinson, J. F. (in press)
3. Anonymous, unpublished
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HEAVY BORDER ON BOXES INDICATES UNITS THAT APPEAR ON THIS SHEET