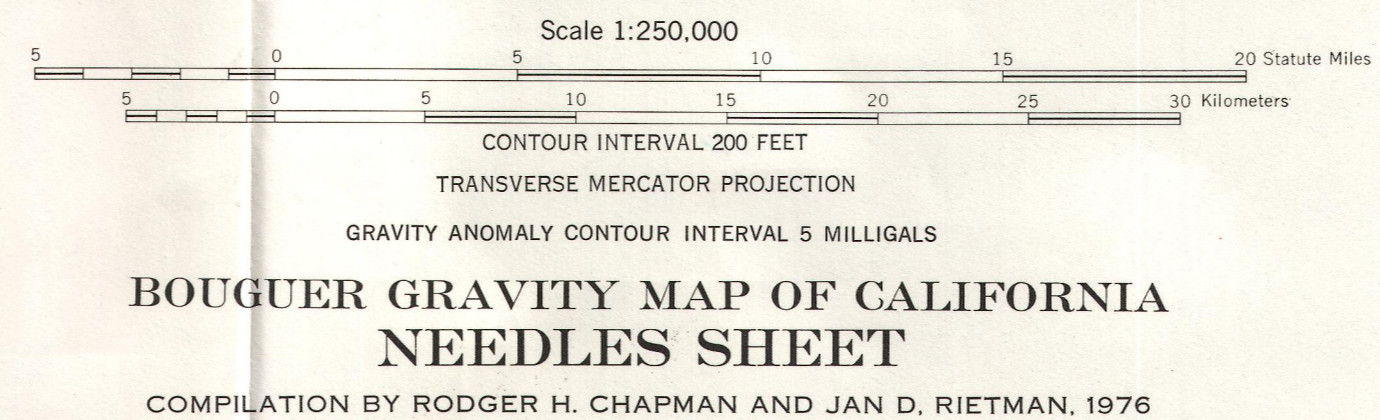
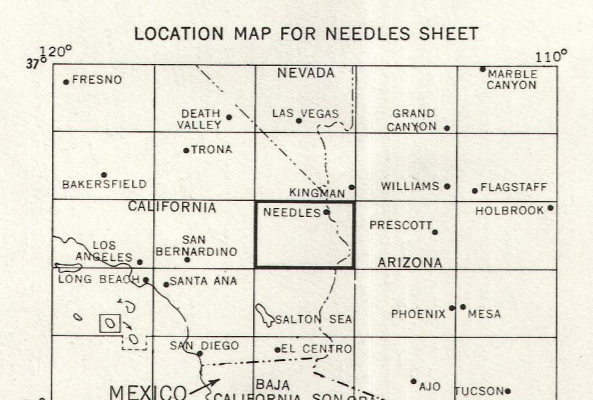


SEDIMENTARY AND META-SEDIMENTARY ROCKS		IGNEOUS AND META-IGNEOUS ROCKS	
Qd	Dune sand	Qv	Recent volcanic: Qv ¹ -rhyolite; Qv ² -andesite; Qv ³ -basalt; Qv ⁴ -pyroclastic rocks
Qal	Alluvium		
Qsc	Stream channel deposits		
Qf	Fan deposits		
Qb	Basin deposits		
Qs	Salt deposits		
Ql	Quaternary lake deposits		
Qg	Glacial deposits		
Qn	Quaternary nonmarine terrace deposits		
Qm	Pliocene marine and marine terrace deposits	Qm ¹	Pliocene volcanic: Qm ¹ -rhyolite; Qm ² -andesite; Qm ³ -basalt; Qm ⁴ -pyroclastic rocks
Qc	Pliocene nonmarine	Qm*	Quaternary and/or Pliocene cinder cones
Qp	Plio-Pliocene nonmarine		
Qn	Undivided Pliocene nonmarine		
Quc	Upper Pliocene nonmarine		
Qum	Upper Pliocene marine	Qm ¹	Pliocene volcanic: Qm ¹ -rhyolite; Qm ² -andesite; Qm ³ -basalt; Qm ⁴ -pyroclastic rocks
Qmc	Middle and/or lower Pliocene nonmarine		
Qml	Middle and/or lower Pliocene marine		
Qm	Undivided Miocene nonmarine		
Qum	Upper Miocene nonmarine		
Qum	Upper Miocene marine	Qm ¹	Miocene volcanic: Qm ¹ -rhyolite; Qm ² -andesite; Qm ³ -basalt; Qm ⁴ -pyroclastic rocks
Qmc	Middle Miocene nonmarine		
Qml	Middle Miocene marine		
Qm	Lower Miocene marine		
Qo	Oligocene nonmarine	Qo ¹	Oligocene volcanic: Qo ¹ -rhyolite; Qo ² -andesite; Qo ³ -basalt; Qo ⁴ -pyroclastic rocks
Qom	Oligocene marine		
Qe	Eocene nonmarine		
Qem	Eocene marine	Qe ¹	Eocene volcanic: Qe ¹ -rhyolite; Qe ² -andesite; Qe ³ -basalt; Qe ⁴ -pyroclastic rocks
Qp	Paleocene nonmarine		
Qpm	Paleocene marine		
Qc	Cenozoic nonmarine	Qc ¹	Cenozoic volcanic: Qc ¹ -rhyolite; Qc ² -andesite; Qc ³ -basalt; Qc ⁴ -pyroclastic rocks
Qn	Tertiary nonmarine	Qn ¹	Tertiary volcanic: Qn ¹ -rhyolite; Qn ² -andesite; Qn ³ -basalt; Qn ⁴ -pyroclastic rocks
Ql	Tertiary lake deposits		
Qm	Tertiary marine		
Uc	Undivided Cretaceous marine		
Ucm	Upper Cretaceous marine		
Ucl	Lower Cretaceous marine		
Uj	Knoville Formation		
Uju	Upper Jurassic marine		
Ujl	Middle and/or Lower Jurassic marine		
Uj	Triassic marine		
Uc	Pre-Cretaceous metamorphic rocks (l = limestone or dolomite)	Uc	Pre-Cretaceous metamorphic rocks
Uc	Pre-Cretaceous meta-sedimentary rocks	Uc	Pre-Cretaceous granitic and metamorphic rocks
Uc	Paleozoic marine (l = limestone or dolomite)	Uc	Paleozoic metamorphic rocks
Uc	Permian marine	Uc	Permian metamorphic rocks
Uc	Undivided Carboniferous marine	Uc	Carboniferous metamorphic rocks
Uc	Pennsylvanian marine		
Uc	Mississippian marine		
Uc	Devonian marine	Uc	Devonian metamorphic rocks
Uc	Silurian marine	Uc	Devonian and pre-Devonian? metamorphic rocks
Uc	Pre-Silurian meta-sedimentary rocks	Uc	Pre-Silurian metamorphic rocks
Uc	Ordovician marine	Uc	Pre-Silurian volcanic rocks
Uc	Cambrian marine	Uc	Cambrian igneous and metamorphic rock complex
Uc	Cambrian-PreCambrian marine	Uc	Undivided Precambrian metamorphic rocks
Uc	Undivided Precambrian metamorphic rocks	Uc	Undivided Precambrian granitic rocks
Uc	Later Precambrian sedimentary and metamorphic rocks	Uc	Precambrian anorthosite
Uc	Earlier Precambrian metamorphic rocks		

TOPOGRAPHIC BASE MAP
 Prepared by the Army Map Service (KCBM), Corps of Engineers, U. S. Army, Washington, D. C. Compiled in 1957 by U. S. Coast & Geodetic Survey by photogrammetric methods and from United States Quaternary maps, 1:24,000, 1:50,000, 1:62,000, USGS and AMS, 1947-1954; Metropolitan Water District, 1:120,000, California, Sheet 69, 1929. Planimetric detail revised by photo-planimetric methods. Horizontal and vertical control by USC&GS, USGS, and CE. Photography field annotated 1956.

Land not prepared by U. S. Geological Survey
 Minor corrections and additions to culture by California Division of Mines and Geology, 1963



Scale 1:250,000
 0 5 10 15 20 25 30 Statute Miles
 0 5 10 15 20 25 30 Kilometers

Grav. Station
 California Division of Mines and Geology gravity base station

Reduction density: 2.67 g/cm³
 Datum is 379,068.74 milligals at the U.S. Geological Survey, Menlo Park, California (California Division of Mines and Geology gravity base station number 173).
 Terrain corrections for all stations have been made to 165.7 m.

SOURCES OF GRAVITY DATA
 (SOURCE DATA ARE AVAILABLE FROM THE CALIFORNIA DIVISION OF MINES AND GEOLOGY, SACRAMENTO, CALIFORNIA (FOR COMPLETE CITATIONS, SEE "REFERENCES" IN ACCOMPANYING VOLUME))

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