DIVISION OF MINES AND GEOLOGY
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STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF CONSERVATION

GEOLOGIC MAP OF CALIFORNIA
MARIPOSA SHEET

EXPLANATION

SEDIMENTARY AND METASEDIMENTARY ROCKS — IGNEOUS AND META-IGNEOUS ROCKS

CENOZOIC

QUATERNARY

Recent
- Qs Dune sand
- Qal Alluvium
- Qsc Stream channel deposits; Qf Fan deposits; Qb Basin deposits (GREAT VALLEY)
- Qst Salt deposits
- Ql Quaternary lake deposits
- Qg Glacial deposits
- Qrv Recent volcanic: Qrvʳ—rhyolite; Qrvᵃ—andesite; Qrvᵇ—basalt; Qrvᵖ—pyroclastic rocks

Pleistocene
- Qt Quaternary nonmarine terrace deposits
- Qm Pleistocene marine and marine terrace deposits
- Qc Pleistocene nonmarine
- QP Plio-Pleistocene nonmarine
- Qpv Pleistocene volcanic: Qpvʳ—rhyolite; Qpvᵃ—andesite; Qpvᵇ—basalt; Qpvᵖ—pyroclastic rocks
- Quaternary and/or Pliocene cinder cones

TERTIARY

Pliocene
- Pc Undivided Pliocene nonmarine
- Puc Upper Pliocene nonmarine
- Pu Upper Pliocene marine
- Pmlc Middle and/or lower Pliocene nonmarine
- Pml Middle and/or lower Pliocene marine
- Pv Pliocene volcanic: Pvʳ—rhyolite; Pvᵃ—andesite; Pvᵇ—basalt; Pvᵖ—pyroclastic rocks

Miocene
- Mc Undivided Miocene nonmarine
- Muc Upper Miocene nonmarine
- Mu Upper Miocene marine
- Mmc Middle Miocene nonmarine
- Mm Middle Miocene marine
- Ml Lower Miocene marine
- Mv Miocene volcanic: Mvʳ—rhyolite; Mvᵃ—andesite; Mvᵇ—basalt; Mvᵖ—pyroclastic rocks

Oligocene
- Φc Oligocene nonmarine
- Φ Oligocene marine
- Φv Oligocene volcanic: Φvʳ—rhyolite; Φvᵃ—andesite; Φvᵇ—basalt; Φvᵖ—pyroclastic rocks

Eocene
- Ec Eocene nonmarine
- E Eocene marine
- Ev Eocene volcanic: Evʳ—rhyolite; Evᵃ—andesite; Evᵇ—basalt; Evᵖ—pyroclastic rocks

Paleocene
- Epc Paleocene nonmarine
- Ep Paleocene marine

Undivided
- QTc Cenozoic nonmarine
- Tc Tertiary nonmarine
- Tl Tertiary lake deposits
- Tm Tertiary marine
- QTv Cenozoic volcanic: QTvʳ—rhyolite; QTvᵃ—andesite; QTvᵇ—basalt; QTvᵖ—pyroclastic rocks
- Ti Tertiary intrusive (hypabyssal) rocks: Tiʳ—rhyolite; Tiᵃ—andesite; Tiᵇ—basalt
- Tv Tertiary volcanic: Tvʳ—rhyolite; Tvᵃ—andesite; Tvᵇ—basalt; Tvᵖ—pyroclastic rocks

MESOZOIC

CRETACEOUS
- K Undivided Cretaceous marine
- Ku Upper Cretaceous marine
- Kl Lower Cretaceous marine
- KJf Franciscan Formation

JURASSIC
- Jk Knoxville Formation
- Ju Upper Jurassic marine
- Jml Middle and/or Lower Jurassic marine

TRIASSIC
- Ti Triassic marine

- KJfv Franciscan volcanic and metavolcanic rocks
- gr Mesozoic granitic rocks: grᵍ—granite and adamellite; grᵍ—granodiorite; grᵗ—tonalite and diorite
- bi Mesozoic basic intrusive rocks
- ub Mesozoic ultrabasic intrusive rocks
- JRv Jura-Trias metavolcanic rocks

UNDIVIDED
- m / ls Pre-Cretaceous metamorphic rocks (ls = limestone or dolomite)
- ms Pre-Cretaceous metasedimentary rocks
- P / ls Paleozoic marine (ls = limestone or dolomite)
- mv Pre-Cretaceous metavolcanic rocks
- gr-m Pre-Cenozoic granitic and metamorphic rocks
- Pv Paleozoic metavolcanic rocks

PALEOZOIC

PERMIAN
- P Permian marine
- Pmv Permian metavolcanic rocks

CARBONIFEROUS
- C Undivided Carboniferous marine
- CP Pennsylvanian marine
- CM Mississippian marine
- Cv Carboniferous metavolcanic rocks

DEVONIAN
- D Devonian marine
- Dv Devonian metavolcanic rocks
- Dv? Devonian and pre-Devonian? metavolcanic rocks

SILURIAN
- S Silurian marine
- pSs Pre-Silurian metasedimentary rocks
- pS Pre-Silurian metamorphic rocks
- pSv Pre-Silurian metavolcanic rocks

ORDOVICIAN
- O Ordovician marine

CAMBRIAN
- Є Cambrian marine
- Є? Cambrian – Precambrian marine

PRECAMBRIAN
- pЄ Undivided Precambrian metamorphic rocks; pЄg = gneiss, pЄs = schist
- lpЄ Later Precambrian sedimentary and metamorphic rocks
- epЄ Earlier Precambrian metamorphic rocks
- pЄc Precambrian igneous and metamorphic rock complex
- pЄgr Undivided Precambrian granitic rocks

HEAVY BORDER ON BOXES INDICATES UNITS THAT APPEAR ON THIS SHEET

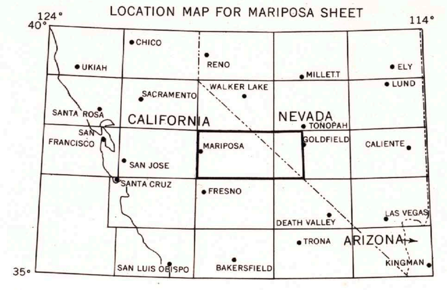
TOPOGRAPHIC BASE MAP

Prepared by the Army Map Service (KCSX), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1961 by photogrammetric methods and from United States Quadrangles, 1:48,000, 1:50,000, 1:62,000, U.S. Geological Survey and AMS, 1942-53. Planimetric detail revised by photo-planimetric methods. Horizontal and vertical control by USGS, USC&GS, USBR, City of Los Angeles and Metropolitan Water District of Southern California. Field annotated 1957.

Minor corrections and additions to culture by California Division of Mines and Geology, 1966.

Land net prepared by U.S. Geological Survey

LOCATION MAP FOR MARIPOSA SHEET



Contact
(Dashed where approximately located, gradational or inferred)

Fault
(Dashed where approximately located; dotted where concealed)

Thrust fault
(Barbs on upper plate; dashed where approximately located, dotted where concealed)

Scale 1:250,000

5 0 5 10 15 20 Statute Miles

5 0 5 10 15 20 25 30 Kilometers

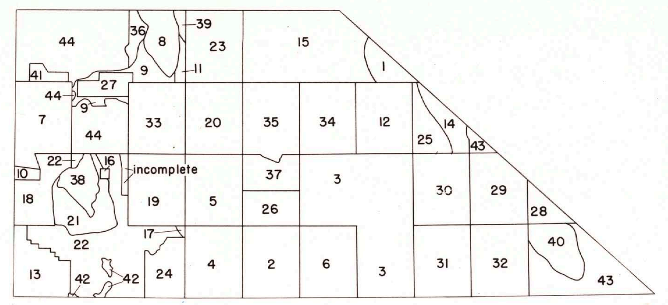
CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

GEOLOGIC MAP OF CALIFORNIA

OLAF P. JENKINS EDITION

MARIPOSA SHEET

COMPILATION BY RUDOLPH G. STRAND, 1967



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