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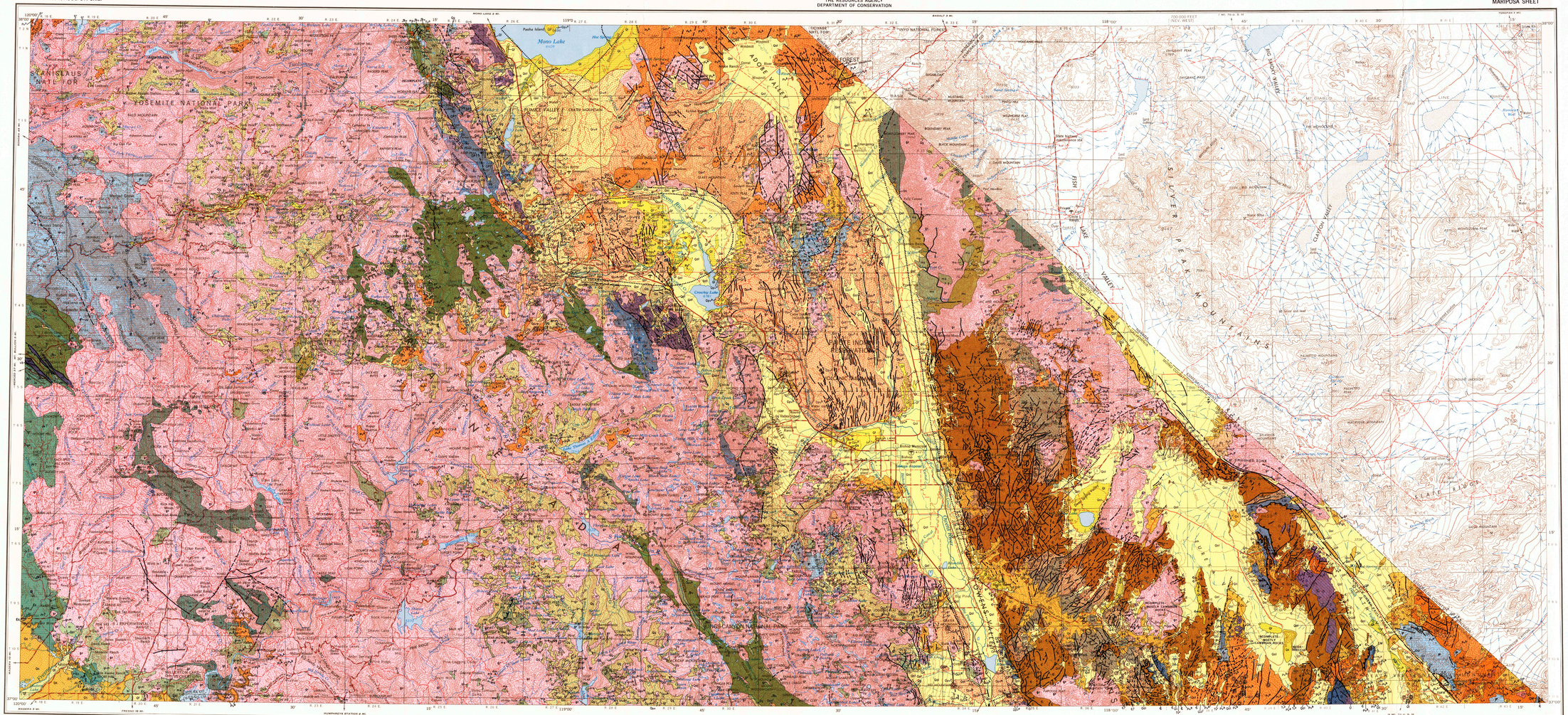
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF CONSERVATION

GEOLOGIC MAP OF CALIFORNIA
MARIPOSA SHEET



EXPLANATION

SEDIMENTARY AND METASEDIMENTARY ROCKS

CENOZOIC

QUATERNARY — Recent

- Qs — Dune sand
- Qal — Alluvium
- Qsc — Stream channel deposits
- Qf — Fan deposits
- Qb — Basin deposits
- (Qsc, Qf, Qb: GREAT VALLEY)
- Qsl — Salt deposits
- Ql — Quaternary lake deposits
- Qg — Glacial deposits
- Qt — Quaternary nonmarine terrace deposits

QUATERNARY — Pleistocene

- Qm — Pleistocene marine and marine terrace deposits
- Qn — Pleistocene nonmarine
- QP — Plio-Pleistocene nonmarine

TERTIARY — Pliocene

- Pn — Undivided Pliocene nonmarine
- Pun — Upper Pliocene nonmarine
- Pu — Upper Pliocene marine
- PmN — Middle and/or lower Pliocene nonmarine
- Pm — Middle and/or lower Pliocene marine

TERTIARY — Miocene

- Mn — Undivided Miocene nonmarine
- Mun — Upper Miocene nonmarine
- Mu — Upper Miocene marine
- MmN — Middle Miocene nonmarine
- Mm — Middle Miocene marine
- Ml — Lower Miocene marine

TERTIARY — Oligocene

- On — Oligocene nonmarine
- O — Oligocene marine

TERTIARY — Eocene

- En — Eocene nonmarine
- E — Eocene marine

TERTIARY — Paleocene

- Pan — Paleocene nonmarine
- Pa — Paleocene marine

TERTIARY — Undivided

- QTn — Cenozoic nonmarine
- Tn — Tertiary nonmarine
- Tl — Tertiary lake deposits
- Tm — Tertiary marine

MESOZOIC

CRETACEOUS

- K — Undivided Cretaceous marine
- Ku — Upper Cretaceous marine
- Kl — Lower Cretaceous marine
- Kn — Knoxville Formation

JURASSIC

- Ju — Upper Jurassic marine
- Jm — Middle and/or Lower Jurassic marine

TRIASSIC

- Tr — Triassic marine

UNDIVIDED

- pCm — Pre-Cretaceous metamorphic rocks (ls = limestone or dolomite)
- pCs — Pre-Cretaceous metasedimentary rocks
- P...ls — Paleozoic marine (ls = limestone or dolomite)

PERMIAN

- P — Permian marine

CARBONIFEROUS

- C — Undivided Carboniferous marine
- IPe — Pennsylvanian marine
- IMi — Mississippian marine

DEVONIAN

- D — Devonian marine

SILURIAN

- S — Silurian marine
- SDu — Pre-Silurian meta-sedimentary rocks

ORDOVICIAN

- O — Ordovician marine

CAMBRIAN

- C — Cambrian marine
- C...P — Cambrian – Precambrian marine

PRECAMBRIAN

- pC — Undivided Precambrian metamorphic rocks (gn = gneiss, sch = schist)
- pCsch — Later Precambrian sedimentary and metamorphic rocks
- pCgn — Earlier Precambrian metamorphic rocks

IGNEOUS AND META-IGNEOUS ROCKS

- Qv — Recent volcanic: Qv^r –rhyolite; Qv^a –andesite; Qv^b –basalt; Qv^p –pyroclastic rocks
- Qpv — Pleistocene volcanic: Qv^r –rhyolite; Qv^a –andesite; Qv^b –basalt; Qv^p –pyroclastic rocks
- Qc — Quaternary and/or Pliocene cinder cones
- Pv — Pliocene volcanic: Pv^r –rhyolite; Pv^a –andesite; Pv^b –basalt; Pv^p –pyroclastic rocks
- Mv — Miocene volcanic: Mv^r –rhyolite; Mv^a –andesite; Mv^b –basalt; Mv^p –pyroclastic rocks
- Ov — Oligocene volcanic: Ov^r –rhyolite; Ov^a –andesite; Ov^b –basalt; Ov^p –pyroclastic rocks
- Ev — Eocene volcanic: Ev^r –rhyolite; Ev^a –andesite; Ev^b –basalt; Ev^p –pyroclastic rocks
- QTv — Cenozoic volcanic: Qv^r –rhyolite; Qv^a –andesite; Qv^b –basalt; Qv^p –pyroclastic rocks
- Ti — Tertiary intrusive (hypabyssal) rocks: Ti^r –rhyolite; Ti^a –andesite; Ti^b –basalt
- Tv — Tertiary volcanic: Tv^r –rhyolite; Tv^a –andesite; Tv^b –basalt; Tv^p –pyroclastic rocks

MESOZOIC

CRETACEOUS

- Kdv — Franciscan volcanic and metavolcanic rocks
- Kgr — Mesozoic granitic rocks: k^g –granite and adamellite; k^gd –granodiorite; k^d –tonalite and diorite
- Jb — Mesozoic basic intrusive rocks
- Jum — Mesozoic ultrabasic intrusive rocks
- JTrv — Jura-Triassic metavolcanic rocks

UNDIVIDED

- pCv — Pre-Cretaceous metavolcanic rocks
- pCgr — Pre-Cretaceous granitic and metamorphic rocks
- Pv — Paleozoic metavolcanic rocks

PERMIAN

- Pv — Permian metavolcanic rocks

CARBONIFEROUS

- Cv — Carboniferous metavolcanic rocks

DEVONIAN

- Dv — Devonian metavolcanic rocks
- DSv — Devonian and pre-Devonian? metavolcanic rocks

SILURIAN

- SDv — Pre-Silurian metamorphic rocks
- SOv — Pre-Silurian metavolcanic rocks

PRECAMBRIAN

- pCgn — Precambrian igneous and metamorphic rock complex
- pCgr — Undivided Precambrian granitic rocks

TOPOGRAPHIC BASE MAP

Prepared by the Army Map Service (ACIS), 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 photogrammetric 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

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

INDEX TO GEOLOGIC MAPPING
(COMPLETE INDEX ON EXPLANATORY DATA SHEET)

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HEAVY BORDER ON BOXES INDICATES UNITS THAT APPEAR ON THIS SHEET