DIVISION OF MINES
IAN CAMPBELL, CHIEF
GORDON B. OAKESHOTT, DEPUTY CHIEF

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

GEOLOGIC MAP OF CALIFORNIA
SAN LUIS OBISPO SHEET

Williams & Heintz Map Corporation, Washington, D.C. 20027

TOPOGRAPHIC BASE MAP

Prepared by the U. S. Army Map Service (GUSX), Corps of Engineers, Washington, D. C. Compiled in 1955 from: United States Quadrangles, 1:24,000, U. S. Geological Survey, Kettleman Plain and Reef Ridge, 1950; California, 1:25,000, Army Map Service, 1947–53; California, 1:50,000, Army Map Service, 1948–52; United States Quadrangles 1:62,500, U. S. Geological Survey and Corps of Engineers, 1922–47; USC&GS Chart 5302, 1941. Planimetric detail revised by photo-planimetric methods. Control by USGS and C.E. Map field checked, 1956.

Land net prepared by U.S. Geological Survey, 1957

Submarine contours adapted from Shepard and Emery Special Paper No. 31 Geol. Soc. America

SUBMARINE CONTOUR INTERVAL 300 FEET

Local depressions 1500

Limit of danger; Reef
Rocks; Awash; Sunken
Foreshore flat
Intermittent or dry stream
Marsh or swamp

LOCATION MAP FOR SAN LUIS OBISPO SHEET

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

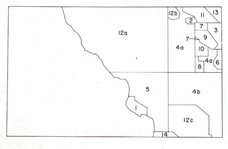
GEOLOGIC MAP OF CALIFORNIA
OLAF P. JENKINS EDITION
SAN LUIS OBISPO SHEET

COMPILATION BY CHARLES W. JENNINGS 1958

SECOND PRINTING, 1967

Contact
(Dashed where approximately located, gradational or inferred)

Fault
(Dashed where approximately located)



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

1. Anonymous, unpublished
2. Bailey, Edgar H., 1942
3. Brooks, T. J., 1955
4a. Dibblee, Thomas W., Jr., unpublished
4b. Dibblee, Thomas W., Jr., unpublished
5. Fairbanks, H. W., 1904
*6. Heikkila, Henry H., and MacLeod, George M., 1951
7. Herrera, Leo J., Jr., unpublished
*8. Herron, Robert F., unpublished
9. Marsh, Owen T., unpublished
10. Peryam, Richard C., unpublished
*11. Stewart, Ralph, 1946
*12a. Taliaferro, N. L., unpublished
*12b. Taliaferro, N. L., unpublished
*12c. Taliaferro, N. L., unpublished
13. Woodring, W. P., Stewart, Ralph, and Richards, R. W., 1940
14. Worts, G. F., 1951

* Modified by T. W. Dibblee, Jr.

EXPLANATION

SEDIMENTARY AND METASEDIMENTARY ROCKS

CENOZOIC — QUATERNARY — Recent
- Qs — Dune sand
- Qal — Alluvium
- Qsc — Stream channel deposits (GREAT VALLEY)
- Qf — Fan deposits (GREAT VALLEY)
- Qb — Basin deposits (GREAT VALLEY)
- Qsd — Salt deposits
- Ql — Quaternary lake deposits
- Qgl — Glacial deposits
- Qt — Quaternary nonmarine terrace deposits

QUATERNARY — Pleistocene
- Qm — Pleistocene marine and marine terrace deposits
- Qc — Pleistocene nonmarine
- QP — Plio-Pleistocene nonmarine

TERTIARY — Pliocene
- Pc — Undivided Pliocene nonmarine
- Pnl — Upper Pliocene nonmarine
- Pm — Upper Pliocene marine
- Pmnc — Middle and/or lower Pliocene nonmarine
- Pmm — Middle and/or lower Pliocene marine

TERTIARY — Miocene
- Mc — Undivided Miocene nonmarine
- Mnl — Upper Miocene nonmarine
- Mu — Upper Miocene marine
- Mmc — Middle Miocene nonmarine
- Mm — Middle Miocene marine
- Ml — Lower Miocene marine

TERTIARY — Oligocene
- Oc — Oligocene nonmarine
- O — Oligocene marine

TERTIARY — Eocene
- Ec — Eocene nonmarine
- E — Eocene marine

TERTIARY — Paleocene
- Epc — Paleocene nonmarine
- Ep — Paleocene marine

TERTIARY — Undivided
- QTc — Cenozoic nonmarine
- Tt — Tertiary nonmarine
- Tl — Tertiary lake deposits
- Tm — Tertiary marine

MESOZOIC — CRETACEOUS
- K — Undivided Cretaceous marine
- Ku — Upper Cretaceous marine
- Kl — Lower Cretaceous marine

MESOZOIC — JURASSIC
- Jk — Knoxville Formation
- Ju — Upper Jurassic marine
- Jm — Middle and/or Lower Jurassic marine

MESOZOIC — TRIASSIC
- TR — Triassic marine

UNDIVIDED
- Pzs — Pre-Cretaceous metamorphic rocks (ls = limestone or dolomite)
- Pzsl — Pre-Cretaceous metasedimentary rocks
- P ls — Paleozoic marine (ls = limestone or dolomite)

PALEOZOIC — PERMIAN
- Pr — Permian marine

PALEOZOIC — CARBONIFEROUS
- C — Undivided Carboniferous marine
- CP — Pennsylvanian marine
- CM — Mississippian marine

PALEOZOIC — DEVONIAN
- D — Devonian marine

PALEOZOIC — SILURIAN
- S — Silurian marine

PALEOZOIC — CAMBRIAN-ORDOVICIAN
- Spz — Pre-Silurian metasedimentary rocks
- O — Ordovician marine
- Є — Cambrian marine

PRECAMBRIAN
- Є? — Cambrian – Precambrian marine
- pЄ — Undivided Precambrian metamorphic rocks pЄg = gneiss, pЄs = schist
- pЄc — Later Precambrian sedimentary and metamorphic rocks
- pЄe — 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: Qpv^r —rhyolite; Qpv^a —andesite; Qpv^b —basalt; Qpv^p —pyroclastic rocks
- 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: QTv^r —rhyolite; QTv^a —andesite; QTv^b —basalt; QTv^p —pyroclastic rocks
- Tt — Tertiary intrusive (hypabyssal) rocks: Tt^r —rhyolite; Tt^a —andesite; Tt^b —basalt
- Tv — Tertiary volcanic: Tv^r —rhyolite; Tv^a —andesite; Tv^b —basalt; Tv^p —pyroclastic rocks
- Franciscan volcanic and metavolcanic rocks
- Mesozoic granitic rocks: gr^a granite and adamellite; gr^d granodiorite; gr^t tonalite and diorite
- Mesozoic basic intrusive rocks
- Mesozoic ultrabasic intrusive rocks
- Jvs — Jura-Trias metavolcanic rocks
- Pre-Cretaceous metavolcanic rocks
- Pre-Cenozoic granitic and metamorphic rocks
- Paleozoic metavolcanic rocks
- Permian metavolcanic rocks
- Carboniferous metavolcanic rocks
- Devonian metavolcanic rocks
- Devonian and pre-Devonian? metavolcanic rocks
- Pre-Silurian metamorphic rocks
- Pre-Silurian metavolcanic rocks
- Precambrian igneous and metamorphic rock complex
- Undivided Precambrian granitic rocks

HEAVY BORDER ON BOXES INDICATES UNITS THAT APPEAR ON THIS SHEET