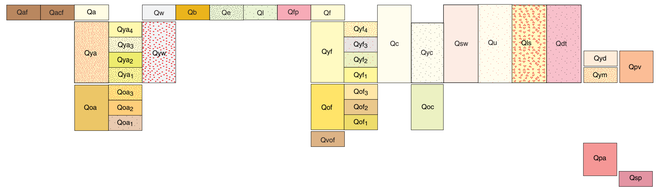
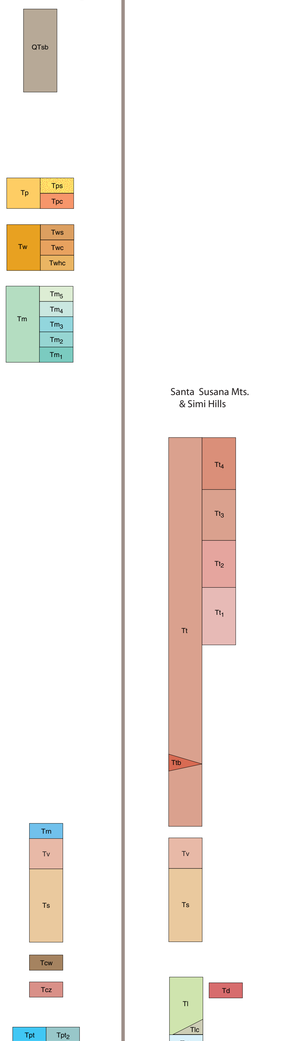
CORRELATION OF MAP UNITS



Transverse Ranges Province

Topatopa Mts. & eastern Santa Ynez Range



Oak Ridge, Santa Susana Mts., Simi Hills, Santa Monica Mts.

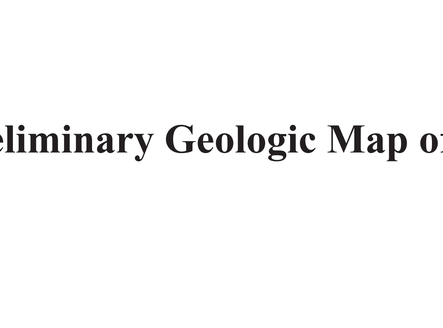
Castaic Valley-Soledad Canyon, and San Gabriel Mts.

Santa Susana Mts. & Simi Hills

Central & western Santa Monica Mts. (below Malibu Bowl Detachment Fault)

Central Santa Monica Mts. (Upper plate of Malibu Bowl Detachment Fault)

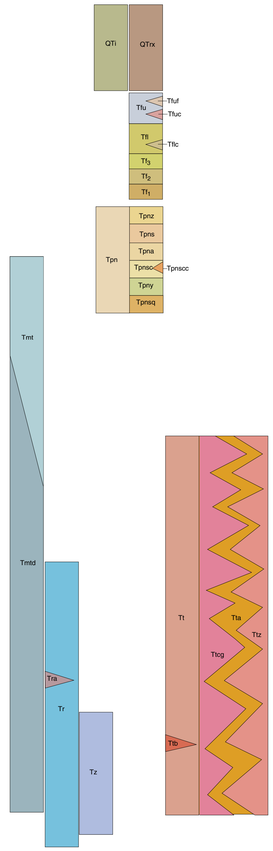
Intrusive rocks associated with Tco

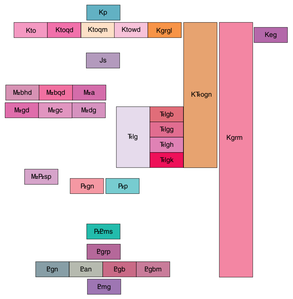


Peninsular Ranges Province

Los Angeles Basin

West *East*





Preliminary Geologic Map of the Los Angeles 30' x 60' Quadrangle, Southern California

Compiled by
Robert F. Yerkes and Russell H. Campbell

Digital Preparation by
Rachel M. Alvarez and Kelly R. Bovard

EXPLANATION

Contact—Solid where accuracy of location ranges from well located to approximately located; dashed where very poorly located or inferred, dotted where concealed, queried where location or existence uncertain. No line shown for scratch contacts used to identify unreconciled quadrangle boundaries

Fault—Solid where accurately located, dashed where approximately located, dotted where concealed, queried where location or existence uncertain. Includes strike slip, normal, reverse, oblique, and unspecified slip

Thrust fault—Solid where accurately located, dashed where approximately located, dotted where concealed. Teeth on upper plate

Detachment fault—Solid where accurately located, dashed where approximately located, dotted where concealed, queried where location or existence uncertain. Hachures on upper plate

Intruded fault—Solid where accurately located

Surface rupture—Solid where accurately located. 1971 San Fernando earthquake. Teeth on upper plate

Dike—Solid where accuracy of location ranges from well located to approximately located

Tuff—Solid where accuracy of location ranges from well located to approximately located

Mapped horizon or bed—Solid where accuracy of location ranges from well located to approximately located

Syncline—Dashed where approximately located, dotted where concealed

Anticline—Solid where accurately located, dashed where approximately located, dotted where concealed. Overturned where indicated

Strike and dip of bedding

Horizontal
Inclined
Inclined - approximate
Inclined - taken from air photo
Inclined - crumpled
Inclined with tops
Vertical
Overturned
Overturned with tops

Strike and dip of igneous foliation

Inclined

Strike and dip of metamorphic foliation

Inclined
Vertical

Strike and dip of igneous joint

Inclined

Strike and dip of cleavage

Inclined

On some SCAMP geologic map plots, including the Los Angeles 30' X 60' quadrangle, characteristic grain size information is displayed using subscripted alpha characters (e.g., Qyf_g, Qov_{bx} after the unit label), where the characters conform to the following definitions:

a - arenaceous; sand or sand bearing (very coarse sand through very fine sand)
b - boulders or containing boulders (>25mm)
g - gravel or containing gravel (cobble through granule gravel)
s - silt or silty
bx - breccia

Where a unit label has more than one subscripted character, in all cases, the first character modifies the second (e.g., Qyf_{ag} indicates arenaceous gravel).

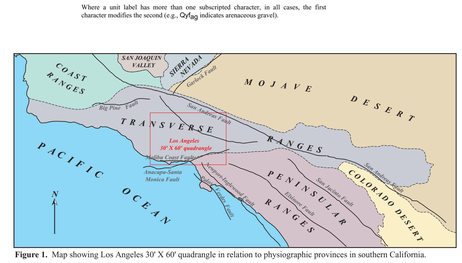


Figure 1. Map showing Los Angeles 30' X 60' quadrangle in relation to physiographic provinces in southern California.

Figure 2. Map of Los Angeles 30' X 60' quadrangle showing place names used in text. Approximate locations of some faults, cities, mountain ranges and water features are shown.

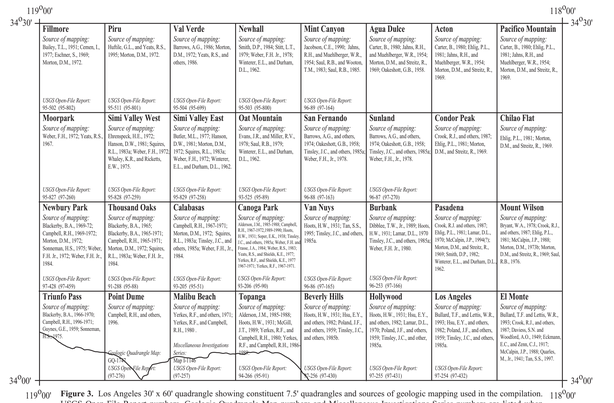


Figure 3. Los Angeles 30' x 60' quadrangle showing constituent 7.5' quadrangles and sources of geologic mapping used in the compilation. USGS Open-File Report numbers, Geologic Quadrangle Map numbers and Miscellaneous Investigations Series numbers are listed when appropriate and refer to previously released 1:24,000 scale quadrangles. Open-File Report numbers inside of parentheses refer to maps released in a digital format.