

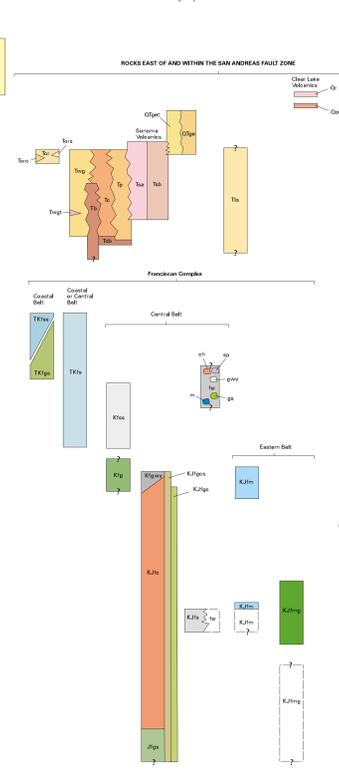
- SOURCES OF MAP DATA**
(See References cited for sources with dates shown in parentheses)
1. E. H. Bailey, geologic investigation in 1957-1962
 2. E. H. Bailey and M. C. Blake, Jr., field investigations in 1959-1960; T. W. Doherty, field investigations in 1945; and Higgins (1960)
 3. Wentworth (1967) and (1968); Wentworth and others (1968); recently active fault traces and adjacent landslides from Brown and Wade (1970)
 4. Crawford (1965); supplemented by field reconnaissance by Blake and Wright in 1970
 5. Gealey (1951); supplemented by field reconnaissance by Blake and Wright in 1970; recently active faults from Brown (1972) and California Division of Mines and Geology (1978); Glen Ellen Formation from Cartwell (1958) and sheet of J. A. Barton and K. J. Fox, Jr.
 6. Higgins (1960); supplemented by field reconnaissance by Blake and Wright in 1970
 7. Petrogeology by C. M. Wentworth in 1970; augmented by information from James Schloker, and Schloker and Bonilla (1967)
 8. Miller (1968); McLaughlin (1978); supplemented by field reconnaissance by Blake and Wright in 1970; active faults from California Division of Mines and Geology (1978)
 9. Bailey (1946); McLaughlin (1978)
 10. Rudolf G. Brand, geologic investigations in 1967-1969
 11. Travis (1952); Christensen (1973); Bedrosian (1981); supplemented in northwest quarter of map by field investigations by W. B. Irwin in 1966 and field reconnaissance by Blake and Wright in 1970; recently active faults from Paul and White Cove Formations from J. A. Barton; Glen Ellen Formation from Cartwell (1958)
 12. Clyde Wahrhaftig, field investigations in 1970

LIST OF MAP UNITS

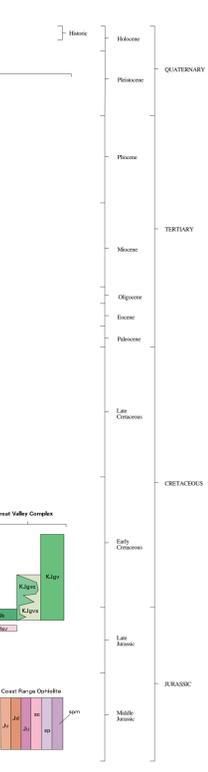
- SURFICIAL DEPOSITS**
- af Artificial fill (historic)
 - Qal Alluvial fan and fluvial deposits (Quaternary)
 - Qm Bay sand (Quaternary)
 - Qd Beach and dune sand (Quaternary)
 - Qla Landslide deposits (Quaternary)
 - Qit Alluvial and marine terrace deposits (Pleistocene)
 - Qpat Older alluvial fan deposits (Pleistocene)
- ROCKS EAST OF AND WITHIN THE SAN ANDREAS FAULT ZONE**
- Cl Clear Lake Volcanics
 - Cr Rhyolite and rhyodacite (Pleistocene)
 - Qub Olivine basalt (Pleistocene)
 - Qf Glen Ellen Formation (Pleistocene?) and Pliocene
 - Qfpt Tuffaceous member
 - Qfob Ohlson Ranch Formation (Pliocene)
 - Ts Sandstone
 - Toc Conglomerate
 - Ts Sedimentary rocks of Little Sulphur Creek (Pliocene and/or Miocene)
 - Sonoma Volcanics (Pliocene and Miocene)
 - Andesite
 - Basalt
 - Tng Wilson Grove Formation (late Pliocene to late Miocene)
 - Tngt Tuff (late Miocene)
 - Tc Sand and gravel of Citati (Pliocene and late Miocene)
 - Tf Petrified Formation (Pliocene and late Miocene)
 - Tu Undivided tuff (Pliocene and Miocene)
 - Tso Donnell Ranch volcanics of Youngman, 1889 (Miocene)
- Franciscan Complex**
- TKf Coastal Belt
 - TKfs Sandstone (late Eocene to late Cretaceous, Maastriichtian)
 - TKfg Greenstone (middle Eocene to late Cretaceous)
 - TKf Central Belt
 - TKfs Sandstone (late Eocene to late Cretaceous, Turonian)
 - TKfs Sandstone (late Cretaceous, Turonian to Campanian)
 - TKfg Greenstone (late?) Cretaceous
 - TKfvy Sandstone (late and early Cretaceous, Cenomanian and/or late Albian)
 - TKfcs Greenstone, chert, and sandstone (Cretaceous and Jurassic)
 - TKfcs Chert (Cretaceous and Jurassic)
 - TKfcs Greenstone and chert (Cretaceous and Jurassic)
 - TKfcs Graywacke and melange (Cretaceous and Jurassic)
 - TKf Melange
 - TKfg Greenstone block
 - TKfg Chert block
 - TKfg Graywacke block
 - TKfg High-grade metamorphic rock block
 - TKfg Serpentine block
 - TKfg Greenstone (Jurassic)
 - TKfg Eastern Belt
 - TKfg Metagraywacke (Cretaceous and Jurassic)
 - TKfg Melange (Cretaceous and Jurassic)

- Great Valley complex**
- Kjcs Sandstone, shale, and conglomerate (Early Cretaceous and late Jurassic)
 - Kjcsy Sandstone, siltstone, and shale
 - Kjcsy Conglomerate
 - Kjcsy Knoxville Formation (late Jurassic)
 - Kjcsy Keratophyre and quartz keratophyre tuff (late Jurassic)
 - Kjcsy Coast Range Ophiolite (late and middle Jurassic)
 - Kjcsy Mafic and intermediate volcanic rocks
 - Kjcsy Mafic and intermediate intrusive rocks
 - Kjcsy Ultramafic rocks
 - Kjcsy Serpentine
 - Kjcsy Silica-carbonate rock
 - Kjcsy Serpentine matrix in cluge
- ROCKS WEST OF AND WITHIN THE SAN ANDREAS FAULT ZONE**
- TKm Sandstone and mudstone of the Fort Ross area (early Miocene)
 - TKm German Ranch Formation of Wentworth and others (1998) (Eocene and Paleocene)
 - TKm Undifferentiated German Ranch and Guadalupe Formations (Eocene to Late Cretaceous)
 - TKm Guadalupe Formation of Wentworth and others (1998) (late Cretaceous and Paleocene?)
 - TKm Anchor Bay member
 - TKm Stewart Point member
 - TKm Splitter near Black Point (Cretaceous? or Jurassic?)
 - TKm Salinian complex
 - TKm Quartz-diorite of Badaga Head (Cretaceous)
- MAP SYMBOLS**
- Contact - Depositional or intrusive contact or large melange block edge; dashed where approximately located; dotted where concealed
 - Fault - Dashed where approximately located; small dashes where inferred; dotted where concealed; queried where location is uncertain; magenta denotes Quaternary active fault
 - Strike and dip of bedding
 - Strike and dip of bedding, top indicator observed
 - Strike and dip of bedding, approximate
 - Overturned bedding
 - Crumpled bedding
 - Horizontal bedding
 - Vertical bedding
 - Strike and dip of foliation
 - Strike and dip of foliation and bedding
 - Vertical foliation
 - Vertical joint
 - High-grade block, mapped locally
 - Low-grade block, mapped locally
 - Cohesive graywacke within KJfs
 - Foliate metabasalt

CORRELATION OF MAP UNITS



EXPLANATION OF TERRANE MAP

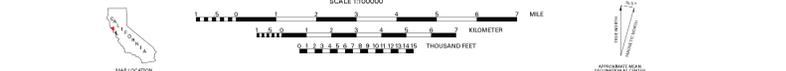


Base from Altner, 1987. A digital version of the 1970 U.S. Geological Survey San Francisco Bay Region 1:25,000 scale topographic map UTM projection, zone 10

New geologic mapping by Blake, Graymer, and Stamm, 1999-2001

Edited by Jan Ziegler

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INDEX MAP SHOWING FAULTS AND MESOZOIC AND TERTIARY COMPLEX TERRANES IN THE STUDY AREA

