

QUATERNARY	Holocene	<div style="display: flex; justify-content: center; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Qaf</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Qbm</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Qa</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Qls</div> </div>	Surficial deposits	
			Qaf; manmade fill	
			Qbm; bay mud	
	Pleistocene	<div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Qoa</div>	Older alluvium	
			Unconformity	
			<div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Tps</div>	Nonmarine sedimentary rocks
	TERTIARY	Pliocene	<div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Tlt</div>	Weakly indurated, clay, silt, sand, and pebble gravel (locally called Wolfskill or Tehama Formation)
				Lawlor Tuff **
				Pumiceous tuff breccia
		Miocene	<div style="display: flex; justify-content: center; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Tsv</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Tst</div> </div>	Sonoma Volcanics
Tsv; andesitic flows and flow-breccias				
Tst; andesitic tuff breccia				
CRETACEOUS		Eocene	<div style="display: flex; justify-content: center; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Tn</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Tmss</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Tmsc</div> </div>	Sedimentary rocks
				Tn; Neroly Formation, normative blue to gray sandstone
				Tmss; marine sandstone (includes Briones and Cierbo Sandstones)
		Paleocene	<div style="display: flex; justify-content: center; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Tkm</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Tkn</div> </div>	Kreyenhagen Formation
	Tkm; Markley Sandstone Member, tan, arkosic sandstone			
	Tkn; Nortonville Shale Member, clay shale			
	Upper Cretaceous	<div style="display: flex; justify-content: center; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Tds</div> </div>	Domengine Sandstone	
			Tan, arkosic sandstone	
			<div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Tmg</div>	Meganos (?) Formation
	Upper Cretaceous	<div style="display: flex; justify-content: center; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Tmzs</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Tmz</div> </div>	Martinez Formation	
Tmz; clay shale, minor sandstone				
Tmzs; sandstone				
Upper Cretaceous	<div style="display: flex; justify-content: center; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Kp</div> <div style="border: 1px solid black; padding: 2px; margin: 0 5px;">Kps</div> </div>	Panoche Formation (marine)		
		Kps; sandstone, minor shale		
		Kp; micaceous, minor sandstone bed		





Geology mapped and field checked by T.W. Dibblee, Jr., 1977; modified from C. Weaver, 1949; J. Sims and others, 1973; and H. Sonneman and J. Switzer, unpublished data 1961-1962.

Contact
dashed where gradational
or approximately located

$$\frac{11}{11} - \frac{0}{0} = ? \dots$$

Fault ***
dashed where inferred;
dotted where concealed;
queried where existence
doubtful;
double arrows indicate
strike-slip movement;
U - upthrown side
D - downthrown side

 anticline
 syncline

Axis of fold
arrow on axis indicates
direction of plunge

$\frac{1}{30}$ inclined
 $\frac{1}{4}$ inclined (approximate)

~~vertical~~

Strike and dip of strata

References cited:

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Map showing recently active
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Map MF-743, scale 1:24,000.

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Nilsen, T.H., and Bartow,
J.A., 1974, Preliminary
photointerpretation map
of landslide and other
surficial deposits of the
Mare Island and Carquinez
Straight 15-minute quad-
rangles, Contra Costa,
Marin, Napa, Solano, and
Sonoma Counties, California:
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Sarna-Wojcicki, A.M., 1976,
Correlation of Late
Cenozoic Tuffs in the
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Trace-and-Minor Element
Chemistry: U.S. Geol.
Survey Prof. Paper 972.

Sims, J.D., Fox, K.F., Jr.,
Bartow, J.A., and Helley,
E.J., 1973, Preliminary
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County and parts of Napa,
Contra Costa, Marin, and
Yolo Counties, California:
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laneous Field Studies Map
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Weaver, C.E., 1949- Geology
of the Coast Ranges
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* Only a few landslide deposits have been mapped. See V.A. Frizzell and others, 1974, for a more complete map of landslide deposits

** dated by Sarna-Wojcicki, 1976, 4.5 \pm m.y.

*** For a different interpretation of the Greer Valley fault zone, see map by Frizzell and Brown, 1976.

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature

by

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1981