

ABBREVIATED EXPLANATION

Approximate stratigraphic relationships only; see Geologic Map Explanation for more accurate stratigraphic relationships and unit descriptions.

QUATERNARY	Holocene	O	Alluvium		
		Qa	Natural levee and channel deposits		
		Qb	Basin deposits ( <i>Alluvium</i> )		
		Qc	Landslide deposits		
		Qd	Dune and beach sand		
	Pleistocene	Qe	Intertidal deposits ( <i>Peaty-mud</i> )		
		Qf	Older alluvium		
		Qgm	Modesto-Riverbank Formations ( <i>Arkosic alluvium</i> )		
		Qt	Terrace deposits		
		Qm	Millerton Formation ( <i>Marine and nonmarine clay, silt, sand and conglomerate</i> )		
Pliocene	Qrb	Red Bluff Formation ( <i>Gravel in reddish silty or sandy matrix</i> )			
	QT	Huichica and Glen Ellen Formations; Includes undifferentiated continental deposits. ( <i>Fluvial gravel, silt, sand, and clay</i> )			
	Qc	"Cache Formation" ( <i>Pebbly sandstone, conglomerate, siltstone and tuff</i> )			
	Pl	Tehama Formation ( <i>Sand, silt, and volcaniclastic rocks</i> )	Qlv	Clear Lake Volcanics ( <i>d-dacite; a-andesite to basaltic rock; b-basalt; r-rhyolite; t-tuff and other pyroclastic rocks</i> )	
	Pt	Putah Tuff Member ( <i>Ppt</i> )		* Quaternary cinder cone or volcano.	
	Pr	Ohlson Ranch Formation ( <i>Marine sandstone, siltstone, and conglomerate</i> )			
	Pwg	Wilson Grove Formation ( <i>Marine sandstone, conglomerate, and tuff</i> )			
	Puc	Unnamed continental deposits ( <i>Poorly sorted sandstone and conglomerate</i> )			
	Pp	Petaluma Formation ( <i>Claystone, siltstone, mudstone; mostly nonmarine</i> )	Psv	Sonoma Volcanics ( <i>b-basalt; a-andesite; r-rhyolite; t-tuff and other pyroclastic rocks</i> )	
	Miocene	Mst	Orinda (?) Formation ( <i>Pebbly sandstone and conglomerate</i> )	Mpt	Pinole Tuff
Mdb		Drakes Bay Formation ( <i>Marine siltstone and mudstone</i> )			
Msp		San Pablo Group ( <i>Marine sandstone and shale</i> )	Mbn	Volcanic rocks of Burdell Mtn. ( <i>Andesitic mudflow breccias and flows</i> )	
Mmy		Monterey Group ( <i>Marine sandstone and shale</i> )			
Mgt		Galloway - Skooner Gulch Formations ( <i>Marine sandstone and mudstone</i> )	Mbp	Putnam Peak Basalt	
Ml		Laird Sandstone ( <i>Marine quartzose feldspathic sandstone</i> )	Mb	Iversen Basalt	
Emk		Markley Sandstone ( <i>Marine</i> )			
En		Nortonville Shale ( <i>Marine</i> )			
Ed		Domengine Sandstone ( <i>Marine</i> )			
Ec		Capay Formation ( <i>Marine sandstone</i> )			
Eocene	Eum	Unnamed Eocene marine rocks			
	Pr	German Rancho Formation ( <i>Marine sandstone and mudstone</i> )			
	Pmz	Martinez Formation ( <i>Marine quartzose sandstone</i> )			
	Ppr	Point Reyes Formation ( <i>Marine conglomerate and sandstone</i> )			
	Kf	Coastal Belt Franciscan ( <i>Marine sandstone, shale, and conglomerate</i> )			
	Kga	Gualala Formation ( <i>Marine sandstone, mudstone, and conglomerate</i> )			
	Ku	Upper Cretaceous ( <i>Undifferentiated marine rocks</i> )	Kgr	Granitic rocks	
	Klo	Forbes Formation ( <i>Marine shale and siltstone</i> )			
	Kg	Guinda Formation ( <i>Marine sandstone and mudstone</i> )			
	Kf	Funks Formation ( <i>Marine shale and sandstone</i> )	shp	Spilite near Black Point	
Paleocene	Ks	Sites Formation ( <i>Marine sandstone</i> )			
	Ky	Yolo Formation ( <i>Marine shale and sandstone</i> )			
	Kv	Venado Formation ( <i>Marine sandstone and conglomerate</i> )			
	Kl	Lower Cretaceous Great Valley Sequence ( <i>Marine mudstone, sandstone, and conglomerate</i> ) ( <i>Klsp - detrital serpentine</i> )			
	Kj	Lower Cretaceous-Upper Jurassic Great Valley Sequence ( <i>Marine mudstone, siltstone, sandstone, and conglomerate</i> ) ( <i>Kjsp - detrital serpentine</i> )			
	Kj	Franciscan Complex* ( <i>ss-sandstone, shale, conglomerate; ch-chert; gs-greenstone; mg-metagraywacke</i> )			
	ss	Serpentinized ultramafic rocks*			
	ch				
	gs				
	mg				
JURASSIC	ls	Metamorphic rocks of uncertain age.			
	ls	limestone and marble			
	ls	( <i>Biotite schist and quartzite</i> )			
	ls				
CRETACEOUS	ls				
	ls				
TERTIARY	ls				
	ls				
MESOZOIC	ls				
	ls				
PALEOZOIC	ls				
	ls				

\* Horizontal pattern denotes melange terrane

MAP SYMBOLS

