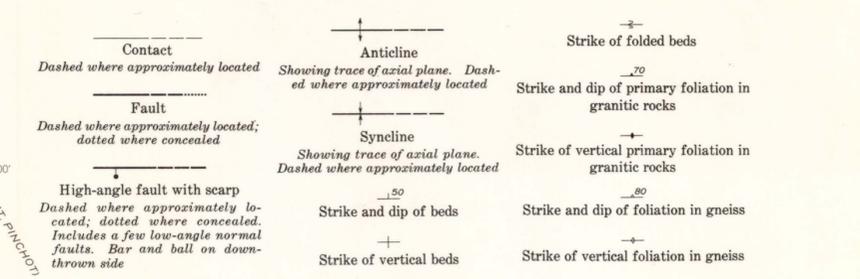


Base map by Topographic Division  
U.S. Geological Survey, 1950;  
modified 1963

Geology by Paul C. Bateman, assisted by  
M. F. Carman and R. M. Campbell

EXPLANATION

Recent	Qal	Alluvial fill	Qt	Talus Includes rock glaciers and Recent moraines; ridge crests shown semidia- grammatically	Qyf	Younger alluvial fan deposits May be, in part, of Pleisto- cene age
	<b>GLACIAL DEPOSITS</b>					
Pleistocene	Qtiy	Undifferentiated till	Qta	Tioga till Qtiy, deposits of younger advance delineated only along Bishop Creek. Crests of moraines and other glacial ridges shown by dotted lines	Qta	Tahoe till Crests of moraines and other glacial ridges shown by dotted lines
	<b>VOLCANIC DEPOSITS</b>					
	Qob	Basalt necks May be of late Tertiary age	Qst	Sherwin and older tills		
<b>UNCONFORMITY</b>						
<b>GRANITIC ROCKS</b>						
	Kc	Felsic dikes and masses Chiefly apite, pegmatite, and alaskite	Kc	Rocks similar to the Cathedral Peak granite Quartz monzonite	Kcy	Granodiorite of Coyote Flat
	Kt	Mafic dikes Pre-Cathedral Peak; precise age uncertain	Kt	Lamarck granodiorite Dark hybrid facies shown by stippled pattern	Kta	Tungsten Hills quartz monzonite Kta, albitized rock
	Kin	Inconsonable granodiorite	Ki	Lamarck granodiorite Dark hybrid facies shown by stippled pattern	Kd	Diorite, quartz diorite, and hornblende gabbro Includes some hybrid rocks of granodiorite composition
<b>METAMORPHIC ROCKS</b>						
<b>METAMORPHIC ROCKS IN SMALLER MASSES</b>						
	Jrg	Gneiss in the South Fork of Bishop Creek Jrgf, felsic lens. May be sheared granitic rock	Jrgf	Gneiss in the South Fork of Bishop Creek Jrgf, felsic lens. May be sheared granitic rock		
	m	Marble	ch	Calc-hornfels	phq	Pelitic hornfels, micaceous quartzite, and schist
	mgh	Micaceous quartzite and pelitic hornfels	sch	Siliceous calc-hornfels	cth	Metachert and andalusite-bearing pelitic hornfels
	cph	Banded calc-hornfels and pelitic hornfels	mb	Marble	phm	Pelitic hornfels with interbeds of marble
	phm	Pelitic hornfels with interbeds of marble				
<b>PALEOZOIC AND MESOZOIC</b>						
	mgh	Micaceous quartzite and pelitic hornfels				
	sch	Siliceous calc-hornfels				
	cth	Metachert and andalusite-bearing pelitic hornfels				
	cph	Banded calc-hornfels and pelitic hornfels				
	mb	Marble				
	phm	Pelitic hornfels with interbeds of marble				
<b>LOWER PALEOZOIC (?)</b>						
	mgh	Micaceous quartzite and pelitic hornfels				
	sch	Siliceous calc-hornfels				
	cth	Metachert and andalusite-bearing pelitic hornfels				
	cph	Banded calc-hornfels and pelitic hornfels				
	mb	Marble				
	phm	Pelitic hornfels with interbeds of marble				



GEOLOGIC MAP OF PART OF THE MOUNT GODDARD 15-MINUTE QUADRANGLE, CALIFORNIA

