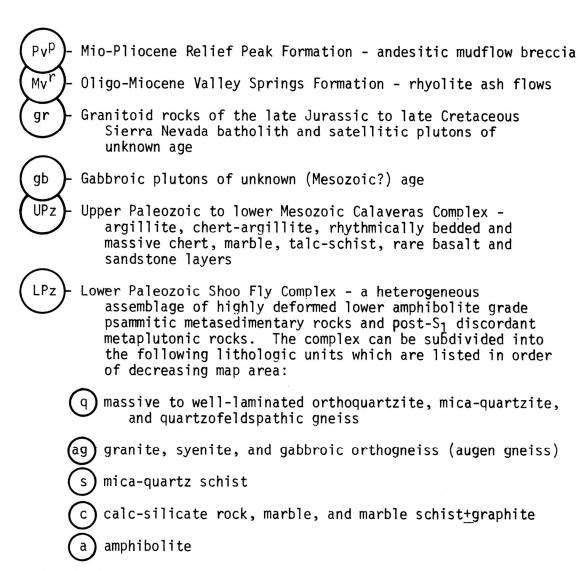
## LITHOLOGIC UNITS



Lithologic descriptions of subunits of the Shoo Fly Complex can be found in appendix 1.

## STRUCTURAL SYMBOLS

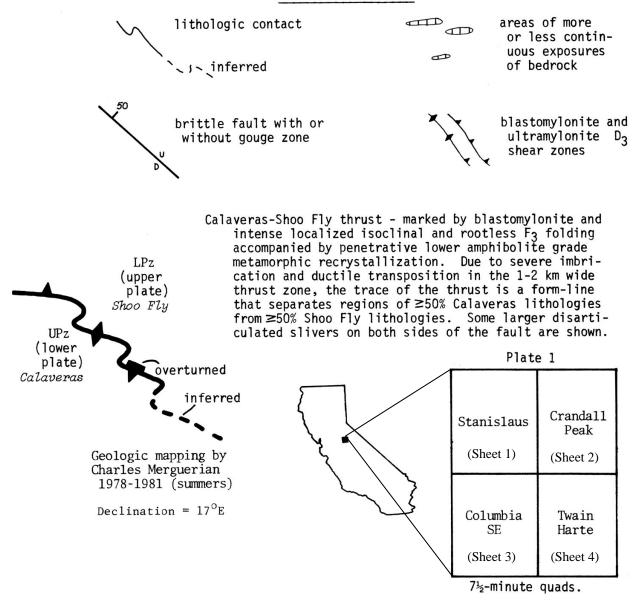
Structural symbols are defined for both the Calaveras Complex and the Shoo Fly Complex. Symbols are often mixed; the point of intersection is the observation point.

## Upper Paleozoic Calaveras Complex

$\begin{array}{c} - & s_0 \\ - & s_1 \\ \hline & F_1/L_1 \\ - & s_2 \\ \hline & F_2/L_2 \end{array}$	Bedding Flattening foliation Fold axis/mineral streaking Slip cleavage and spaced biotite foliation Fold axis/crenulation axis or intersection lineation
	Lower Paleozoic Shoo Fly Complex
<i>-</i> s <sub>0</sub>	Bedding defined by compositional layering indicates metasedimentary origin but extensively transposed in the study area
$\perp$ s <sub>1</sub>	Metamorphic layering or mica foliation related to rare F <sub>1</sub> isoclinal folds
#F1/L1	Fold axis/mineral streaking
→ S <sub>2</sub>	Penetrative lower amphibolite grade mica foliation related to $F_2$ isoclinal and rootless folds
▼ DF2/L2 → S3	Fold axis/mineral streaking
	Blastomylonitic epidote-amphibolite facies foliation formed axial planar to F3 isoclinal and rootless folds during formation of the Calaveras - Shoo Fly thrust. Shearing, boudinage, transposition and metamorphic overprinting of older fabric elements (S1, S2, etc.) is obliterative within 2 km of the ductile fault creating a wide zone of ductile shear deformation. Away from D3 shear zones the S3 foliation is domainal with mica recrystallized axial planar to isoclinal to tight folds
F <sub>3</sub> /L <sub>3</sub>	Fold axis/elongation lineation  Spaced schistosity or crenulation cleavage with biotite,  muscovite, and quartz growth axial planar to tight to isoclinal folds
F4/L4	Fold axis/crenulation or intersection lineation
F4/L4 5- S5	N32°W, 78°NE Nevadan cleavage axial planar to crenu- late and open F <sub>5</sub> folds
80 S6	N30°E, 90° Late Nevadan cleavage axial planar to crenulate and open F <sub>6</sub> folds
⁄ <del>7</del> \$7	N70°W to E-W, 90° Cretaceous high angle fracture cleavage and local reverse faulting with quartz veining and mineralization. Open F7 folds are observed, however, F5, 6, 7 folds are generally not plotted on Plate 1
- s <sub>i</sub>	Igneous flow layering

Foliation symbols are square when axial planar to folds. Downplunge fold assymetries are shown.

## LITHOLOGIC CONTACTS



Explanation to accompany Plate 1 (Merguerian, 1985)

Geological mapping by Charles Merguerian, 1978-1981 (summers)

Some contacts from:

Schweickert, R.A. (unpublished data)

Wagner, D.L., Jennings, C.W., Bedrossian, T.L., and Bortugno, E.J., 1981, Geologic map of the Sacramento Quadrangle: California Division of Mines and Geology, Regional Geologic Map Series Map No. 1A, Scale 1:250,000.

Filename: CM1985CDMG\_Plate1Expl.doc