

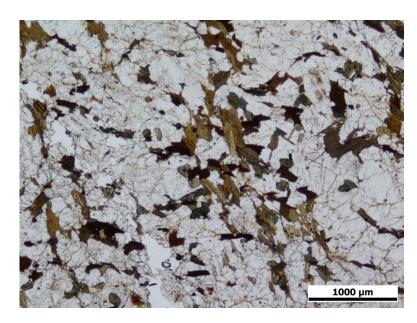
The Durwood pendant is notable for being composed of a near-vertically-dipping, moderately deformed sequence of (from bottom up) meta-semipelite, metavolcanic rocks (quartzite), marble, and quartzite. The metavolcanic sequence is composed of water-reworked felsic tuffs including at least one primary pyroclastic density current deposit (ignimbrite) with andesitic clasts, peperite, and andesitic sheet-like intrusions. The presence of volcanic lithofacies suggests that the Durwood pendant succession was deposited in the Mesozoic; possible correlatives exist along strike at the Mineral King caldera (north; Busby-Spera, 1986) and in the Erskine Canyon / Lake Isabella area (south; Saleeby & Busby, 1986; Saleeby et al., 2010).

369000 m

370000 m

Metased. Petrography





lized guartzite vith relic quartz grain.



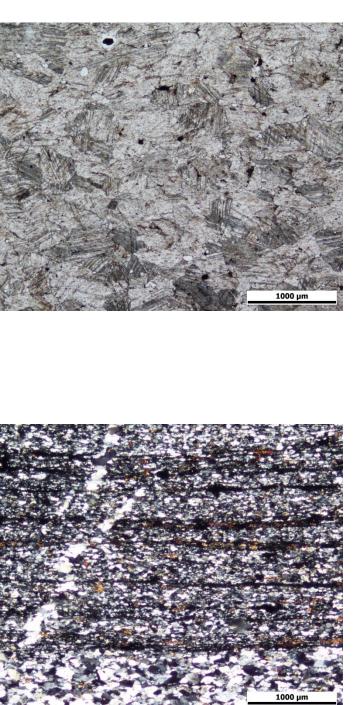
These metasedimentary pendants are typical of those mapped elsewhere in the central and southern Sierra Nevada batholith: narrow, steeply dipping sequences of often monotonous semipelitic metaturbidites interbedded with marbles and quartzites. Regional metamorphism is typically lower greenschist facies except where hornfels facies contact metamorphism dominates.

Continuing studies of these inliers and their structural architecture will improve understanding of the assembly of the Sierra Nevada batholith and the role of arc-parallel shear zones in controlling down-warping of supracrustal successions.

371000 m

372000 m

373000 m



Structure

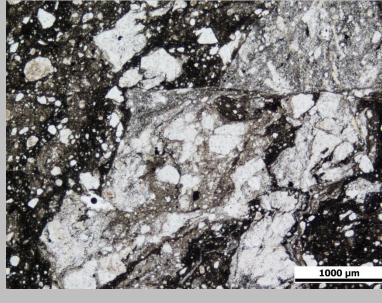
Each inlier is a steeply-dipping homocline with a steep or vertical stretching lineation.

The Rincon pendant, and adjacent Fairview pendant (not shown), appear to be partly structurally controlled by the reverse *proto-Kern* Canyon shear zone (Busby-Spera & Saleeby, 1990) because an asymmetric strain gradient increases in intensity towards the fault trace where it abuts batholitic rocks. The *Kern Canyon fault* (Moore & Du Bray, 1978; Nadin & Saleeby, 2010) is an dextral-normal fault developed along the older shear zone.

The Durwood pendant hosts a 20 m-wide ductile shear with normal sense-of-shear within the middle marble unit (mylonitized) and may be bounded by a second major shear zone to its immediate east.

374000 m

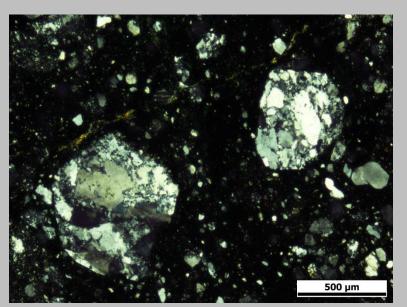
375000 m



Ultracataclasite (float) from Kern Canyon fault – note at lea



Pervasive, parallel and closel spaced vertical fractures in th granite adjacent to the Kern Canyon fault.



Lanyon fault ultracataciasite



Vertically plunging amphibolite boudins in mylonitic marble from the Durwood pendant. Pen for

Summary

USGS EDMAP 2013-14 award G13AC00119 to GA NSF CREST scholarships to ZM and AK

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Saleeby JB, Ducea MN, et al., 2010; GSA SP 438, 397-427.