



### Lassen Volcanic Center

Telephoto view looking northwest from the fault scarp just east of the northernmost part of Lake Almanor (Chester quadrangle). Rocks on Brokeoff Mountain are the dacite of Twin Meadows (unit dt,  $470 \pm 10$  ka), the uppermost unit of the Mill Canyon sequence. Mount Diller consists of the andesite of Mount Diller (unit amd,  $387 \pm 10$  ka), part of the Diller sequence. Mount Conard forms the southeast rim of Brokeoff Volcano (unit amc,  $>470$  ka, part of the Mill Canyon sequence). The higher parts of Brokeoff Volcano (590–390 ka) were destroyed by glacial, landslide, and fluvial erosion; there is no evidence of a cataclysmic eruption or of a caldera. Central skyline is the Lassen Domefield. The dacite of Bumpass Mountain (unit db,  $232 \pm 8$  ka) and the dacite of Reading Peak (unit dr,  $212 \pm 5$  ka) are domes of the Bumpass sequence. The rhyodacite of Eagle Peak (unit re,  $66 \pm 4$  ka), the rhyodacite of Kings Creek (unit rk,  $35 \pm 1$  ka) and the dacite of Lassen Peak (unit dl,  $27 \pm 1$  ka) are domes and flows in the Eagle Peak sequence. Sifford Mountain is a small calcalkaline basalt to basaltic andesite volcano (unit bsm,  $\sim 170$  ka) that marks the southern limit of active volcanism in the Cascades. The forested slopes in the foreground are the tholeiitic basalt of Warner Valley (unit bwv,  $587 \pm 14$  ka).

*Photograph by Patrick Muffler.*