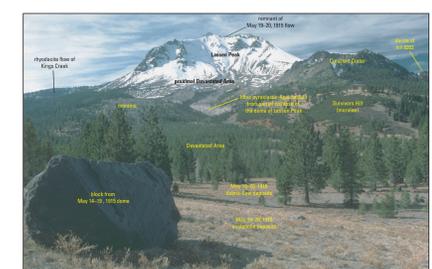
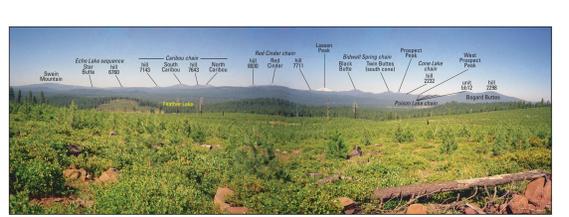


Figure 3. Shaded relief map derived from digital elevation model of the Lassen Volcanic National Park and vicinity, California, and the surrounding area, showing geographic and geologic locations discussed in the pamphlet. Quadrangle names are followed by two-letter abbreviations (in parentheses), which are noted in the Description of Map Units and table 1 to indicate the quadrangle(s) and the database(s) where a given geologic unit is mapped. Color-coded labels: red, large volcanic and geologic features; black, geographic features (mountains, towns, hills, and sections in unit names); blue, water features (lakes, creeks, springs). Note that similarly named features are found in different quadrangles.



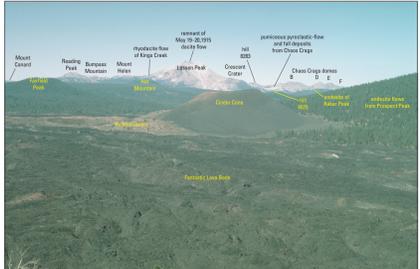
Lassen Peak and the Devastated Area
View of Lassen Peak and the Devastated Area looking south from Emigrant Pass a few hundred meters north of the Devastated Area Parking Lot on Calif. Hwy 89 (West Prospect Peak quadrangle). Area with sparse trees marks the paths of the avalanche and debris-flow deposits of May 19-20, 1915 (unit m9) and the pyroclastic-flow and fluid-debris-flow deposits of May 22, 1915 (unit m9c). Cline and others, 1999; Christiansen and others, 2002. The 3-m-thick tephra in the foreground is derived from the May 14-16 dacitic dome (unit m4) at the summit of Lassen Peak and transported by the May 19-20 avalanche. Small dark crags just to the right of the summit are remnants of the May 19-20, 1915 lava flow (unit m0). The composite dacite dome of Lassen Peak (unit m0, 2714 ka) dominates the upper part of the view. Lentic pyroclastic-flow deposits (unit m0) from partial collapse of the dome of Lassen Peak are exposed in the center of the heat-affected area of Lassen Peak. Reddish-brown tephra in the foreground is dacitic tephra (unit m0). Fluid-debris flows covered by deposits of the 1915 eruption of Lassen Peak (Tarr and others, 1997; Christiansen and others, 2002). Cliff on the left skyline are the pyroclastic lava flow of Kings Creek (unit m6, 3541 ka), which erupted from a vent just south of Lassen Peak. The dacite dome of Crescent Crater (unit m2, 2761 ka) dominates the right skyline, and the dacite dome of hill 8203 (unit m2, 2618 ka) is barely visible at the extreme right skyline. Photograph by Michael A. Clyne.



Carbon Volcanic Field
Panorama looking west from the west flank of Campbell Mountain, 1/2 mile southwest of the summit (Antelope Mountain quadrangle). Visible on the skyline are vents for six sequences of the Carbon Volcanic Field. At the left is the Koko Lake sequence, represented by the dacite dome of Star Butte (unit m9b, ~300 ka) and hill 6760 (basaltic andesite of Ecker Lake, unit m9b1, 302-306 ka). To the immediate right is the Carbon sequence, represented by hill 7143 (basaltic andesite of Hay Meadows, unit m9c, 375-400 ka), South Caribou (basalt of South Caribou, unit m9c, ~350 ka), hill 7643 (basaltic andesite of middle Caribou, unit m9c, 362-353 ka), and North Caribou (basaltic andesite of North Caribou, unit m9c, unit m9c2 at the summit, ~350 ka). In the center is the Red Cinder chain, represented by hill 8030 (basalt of hill 8030, unit m9c2, 26-40 ka), Red Cinder (basaltic andesite of Red Cinder, unit m9c2, 25-40 ka) — 2.553 is the highest elevation in the eastern part of the map area (sheet 1) — and hill 7711 (basalt of sheet 2, unit m9c2, 40-70 ka). To the right of center is the Bishop Spring chain, represented by the dacite cone of Black Butte (basaltic andesite of Black Butte, unit m9c2, 50-70 ka) and the south cone of Twin Buttes (basalt of Twin Buttes, unit m9c2, 46.3-3.4 ka). The north cone of Twin Buttes is hidden by the bowl of hill 2322 (unit m9c2, 220-14 ka), part of the Cone Lake chain. At the far right is the Peacock Lake chain (100-101 ka), with the basaltic andesite of Bogert Buttes (unit m12) at the farthest right. The Carbon Volcanic Field left of the Red Cinder chain (center skyline) is highly modified by glaciation, whereas the sequence to the right is unglaciated and displays original construction forms. Just barely visible in the distance behind the Peacock Lake chain and Twin Buttes are Prospect Peak (unit m9, 247-256 ka) and West Prospect Peak (unit m9a, 300-400 ka). Both regional calc-alkaline volcanoes. The prominent, snow-covered peak in the far distance is Lassen Peak (unit m0, 2714 ka), part of the Eagle Peak sequence of the Lassen dome-field. At the far left of the panorama is Swain Mountain, a basaltic andesite regional calc-alkaline shield volcano (unit m9a, 1,570-15 ka). At the far right of the panorama are Bogert Buttes, the bowl of which (including hill 2200) is the dacite of Bogert Buttes (unit m12, ~200 ka). Photograph by Patrick Maffei.



Little Hat Springs Valley
View looking north from Calif. Hwy 89 on the west side of Little Hat Springs Valley (Lassen Peak quadrangle). Lassen Peak (unit m0, 2714 ka), hydrothermal Kings Creek (unit m6, 3541 ka), and Eagle Peak (unit m9, 666 ka) are part of the Eagle Peak sequence. Shi Hill Peak (unit m6, 2441 ka) and hill 8203 (unit m9c2, 2618 ka) are part of the Burmese sequence. The hydrothermal flow of Kings Creek (unit m6, 3541 ka), the composite dacite dome of Lassen Peak (unit m0, 2714 ka) and the hydrothermal domes and numerous pyroclastic-flow and fall deposits of Chaos Crags (1103-1339 ka) are part of the Eagle Peak sequence. Fairfield Peak (unit m9c, 320-14 ka), Hat Mountain (unit m9, 351 ka), and Crater Crater (1666 C.E.) are vents for basaltic andesite and andesite flows of the younger Twin Lakes sequence. Visible flows from Cinder Cone include Painted Dunes (unit m91 and m92) and Fantastic Lava Beds (unit m91 and m92). Hill 6975 is the vent for the andesite and basaltic andesite of Chatter Lakes (unit m2, 250-300 ka), part of the Old Twin Lakes sequence. The andesite of Raker Peak (unit m2, 270-18 ka) is also part of the Old Twin Lakes sequence. Prospect Peak (unit m9, 247-256 ka) is a regional calc-alkaline andesite and basaltic andesite volcano. Mount Conant (unit m9c, 390-470 ka) forms the southeast rim of the eroded amphitheater of Blackfoot Volcano. Specific camera location is 31 m at 27° from Sunrise Peak. Photograph by Patrick Maffei.



Cinder Cone and Lassen Peak
View looking west-southwest from west flank of Sunrise Peak, just east of Butte Lake (Prospect Peak quadrangle). Skyline above timberline in the Lassen dome-field. Reading Peak (unit m9, 2125 ka), Burmese Mountain (unit m9, 2125 ka), Mount Helen (unit m9, 2049-12 ka), Crescent Crater (unit m9, 2361 ka) and hill 8203 (unit m9c2, 2618 ka) are part of the Burmese sequence. The hydrothermal flow of Kings Creek (unit m6, 3541 ka), the composite dacite dome of Lassen Peak (unit m0, 2714 ka) and the hydrothermal domes and numerous pyroclastic-flow and fall deposits of Chaos Crags (1103-1339 ka) are part of the Eagle Peak sequence. Fairfield Peak (unit m9c, 320-14 ka), Hat Mountain (unit m9, 351 ka), and Crater Crater (1666 C.E.) are vents for basaltic andesite and andesite flows of the younger Twin Lakes sequence. Visible flows from Cinder Cone include Painted Dunes (unit m91 and m92) and Fantastic Lava Beds (unit m91 and m92). Hill 6975 is the vent for the andesite and basaltic andesite of Chatter Lakes (unit m2, 250-300 ka), part of the Old Twin Lakes sequence. The andesite of Raker Peak (unit m2, 270-18 ka) is also part of the Old Twin Lakes sequence. Prospect Peak (unit m9, 247-256 ka) is a regional calc-alkaline andesite and basaltic andesite volcano. Mount Conant (unit m9c, 390-470 ka) forms the southeast rim of the eroded amphitheater of Blackfoot Volcano. Specific camera location is 31 m at 27° from Sunrise Peak. Photograph by Patrick Maffei.

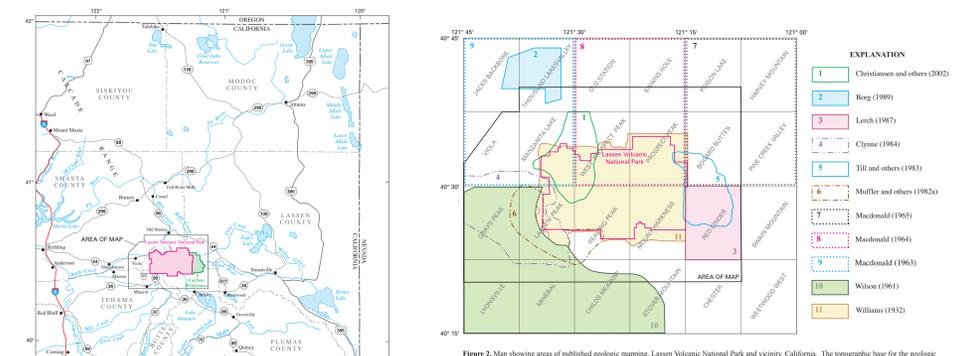


Figure 2. Map showing areas of published geologic mapping, Lassen Volcanic National Park and vicinity, California. The topographic base for the geologic map (sheet 1) was created by mosaicking partition 1 (24,000 U.S. Geological Survey quadrangles) into a single file which was then reduced to the 1:50,000 map scale. The geologic and topographic databases for the map area are presented as individual quadrangles at 1:24,000 in the accompanying CD-ROM (Muffer and others, 2010) and are available online (<http://pubs.usgs.gov/inform3/>).

Figure 1. Map of northeastern California showing locations of geologic map area and Lassen Volcanic National Park, California (adapted from Christiansen and others, 2002).

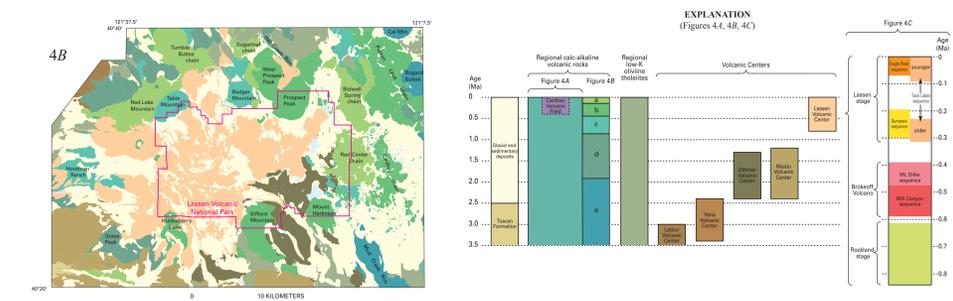
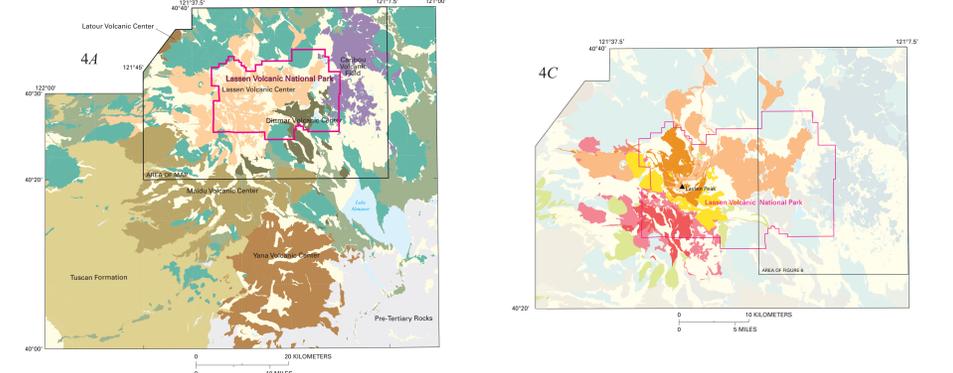


Figure 4. A. Generalized geologic map of Lassen Volcanic National Park and vicinity (sheet 1) and additional unpublished geologic mapping in surrounding areas to the east, west, and south. The figure was created by importing the ArcInfo digital database of which the geologic map, sheet 1, is a part into Adobe Illustrator and then generalizing the more than 500 map units in the database into 11 major geologic entities. Emphasis is on the location, extent, and ages of five large volcanic centers and Caribou Volcanic Field. Light blue areas are lakes. B. Generalized geologic map of Lassen Volcanic National Park and vicinity, California, adapted from part of figure 4A and emphasizing regional calc-alkaline volcanic rocks shown as two maps. The figure 4A, regional calc-alkaline volcanic rocks shown as two maps. The figure 4B, these are divided into five age groups from youngest to oldest, a-c) with age boundaries at 125, 450, 788, and 1,810 ka. Prominent regional calc-alkaline edifices, chains, and flows are labeled. Light blue areas are lakes. C. Generalized geologic map of Lassen Volcanic National Park and vicinity, California, adapted from figure 4A. The major geologic entities of Lassen Volcanic Center are discriminated, and the location, extent, and stratigraphy of the Lassen Volcanic Center are emphasized by muting the colors of all other units. Figure based on geologic map (sheet 1). Light blue areas are lakes.

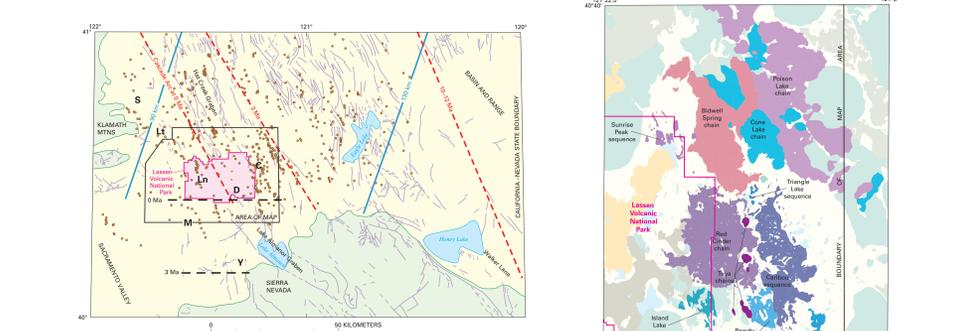


Figure 5. Map showing regional tectonic setting of area from Sacramento Valley to California-Nevada border, including Lassen Volcanic National Park and vicinity, California (modified and updated from Guffanti and others, 1999). Light-yellow background indicates volcanic rocks of the Tertiary to Holocene, including both the Cascade Arc and Basin and Range volcanism. Orange dots indicate the location of volcanic vents younger than about 7 Ma (older vents not shown). The large majority of vents are regional calc-alkaline volcanoes. Thin white lines show the location of faults. Dashed lines show the approximate position of the arc axis at the times indicated, and dashed black lines indicate the approximate southern terminus of arc volcanism at the times indicated. About 12 Ma, the axis of the Lassen segment was near the California-Nevada border. Since then, the arc axis has migrated westward to its present position. Scamman (1969) defined the width of the arc (Guffanti and others, 1999). 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