

Figure 1. Geographic setting of the Petroglyph National Monument geologic map area. Map area boundary shown by black rectangle.

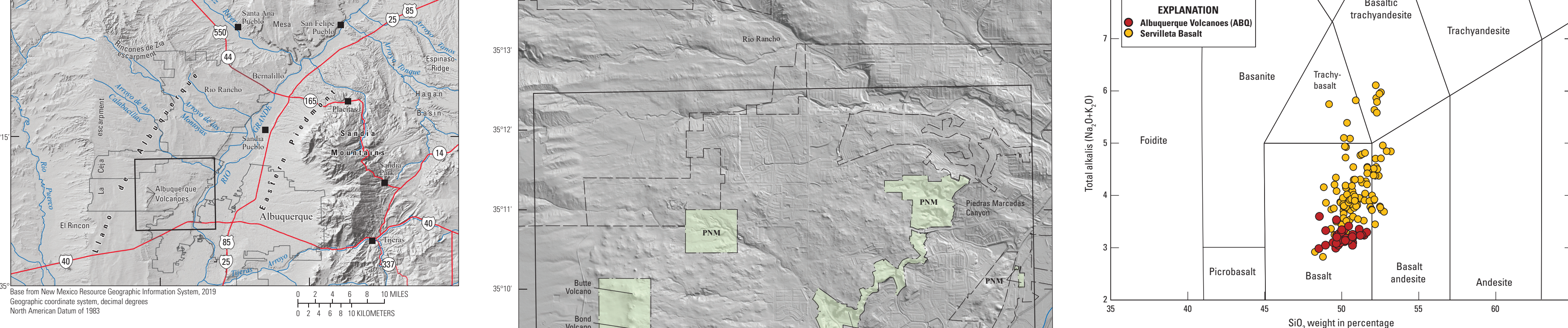


Figure 3. Total alkali (Na<sub>2</sub>O + K<sub>2</sub>O) vs. silica diagram of La Brea and others (1986). Data are recalculated to volatile-free and total iron as Fe<sup>2+</sup>. The Albuquerque volcanics (ABV) have low alkalis and are dominated by olivine tholeiitic basalts. For comparison, Servilletas Basalt compositions from the Taos Plateau volcanic field to the northeast are shown. The Servilletas compositions reflect greater total compositional diversity but compositionally overlap the more primitive basaltic eruptive Petroglyph National Monument.

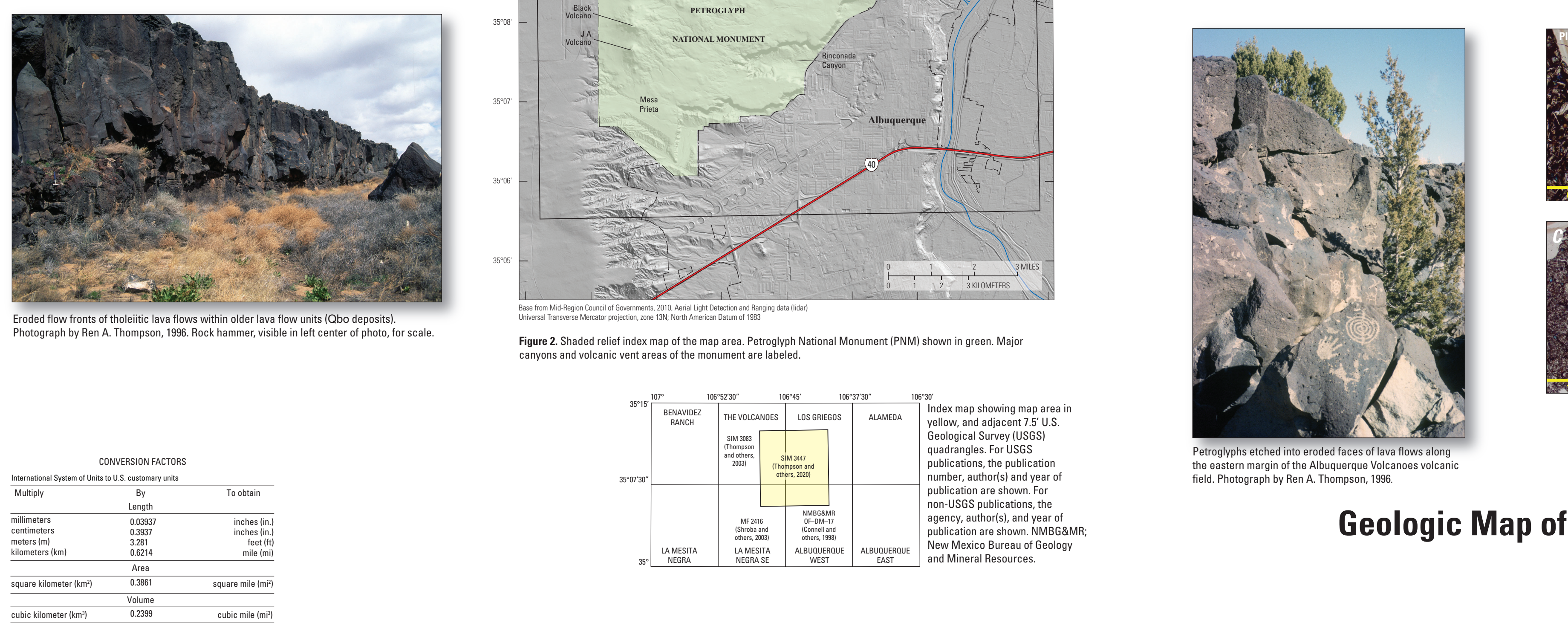


Figure 4. Photomicrographs of macroscopic textures of Albuquerque volcanics, cross-polarized light. A. Basaltic andesite showing groundmass of plagioclase+volcanic+augite+quartz. B. In most samples, olivine is the dominant phase although there are a couple of samples where plagioclase and olivine are abundant. Augite is a late-forming mineral that usually appears to form interstitially. C. Microcrysts of olivine and plagioclase are common as cumulus crystallites. Plagioclase, Qtz, olivine, Aug, augite, mm, millimeters.



Figure 5. Generalized stratigraphic relations of Santa Fe Group sediments mapped in the map area (from Thompson and others, 2001).



Figure 6. Petroglyph National Monument and vicinity, Bernalillo County, New Mexico. This figure includes a detailed map of the monument area, showing its boundaries and surrounding features. It also includes a table of representative bulk-rock chemical analyses for selected samples from the map area. The table lists various chemical elements and their concentrations in different units. Additionally, there is a section for 'EXPLANATION' detailing the symbols and colors used in the map.