

# Legend: Figure 9a

10 km

10 km

scale = 1:106,000

contour interval = 100 meters

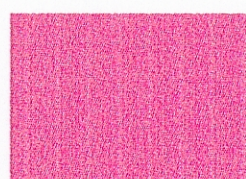
coordinates of inner bounding box:

upper left = 117°29.922', 34°31.888'

lower left = 117°30.065', 33°57.847'

upper right = 116°26.656', 34°31.358'

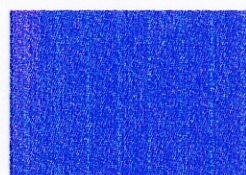
lower right = 116°27.233', 33°57.312'



weathered surface atop the San Bernardino Mountains



weathered surface in the Mojave Desert



late Miocene basalt flow



mid-Miocene to late Pliocene sedimentary deposit

**Figure 9a:** Map of the low relief weathered surface in the San Bernardino Mountains. The distribution of the weathered surface atop the range, along the Big Bear plateau and San Gorgonio block, is based on the characteristic geomorphology of the surface observed in 1:50,000 airphotos or in the field. The distribution of the weathered surface in the Mojave Desert is less accurate and is based on low-relief topography and cursory field examination. The distribution of the weathered surface atop the range extends further east than mapped (limit of mapping indicated by straight-edged contacts on east), but is otherwise shown completely. The distribution of the surface in the Mojave extends further north and east than shown. The distributions of basalt and sediment are taken from previous mapping (Dibblee, 1964a, 1964b, 1967a, 1967b, 1974a, 1974b; Weldon, 1986; Meisling, 1984). The topographic base for this map is the U.S.G.S digital line graphs of 1:100,000 scale, 1-degree topographic maps (portions of the Santa Ana, Big Bear Lake, Palm Springs, and San Bernardino quadrangles). See Figure 1 for more detailed geographical context of the region.

# Legend: Figure 9b

scale = 1:310,000



Quaternary alluvium



late Pleistocene glacial sediments

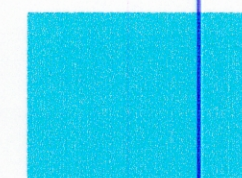
**Figure 9b:** Map of Quaternary deposits in the San Bernardino Mountains (modified from Bortugno and Spittler, 1986). Note that many of the holes in the weathered surface atop the central Big Bear plateau are due to blankets of alluvium.

# Legend: Figure 9c

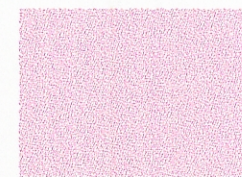
scale = 1:310,000



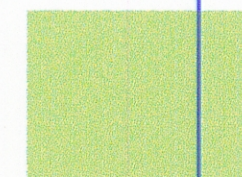
quartzite



marble



crystalline basement; plutonic or gneissic rock



mixed metamorphic rock

**Figure 9c:** Map of bedrock in the San Bernardino Mountains (modified from Bortugno and Spittler, 1986). Note that the low relief surface occurs primarily on granite or granitic gneiss, as whereas quartzite and other metasedimentary lithologies correspond to holes in the weathered surface.