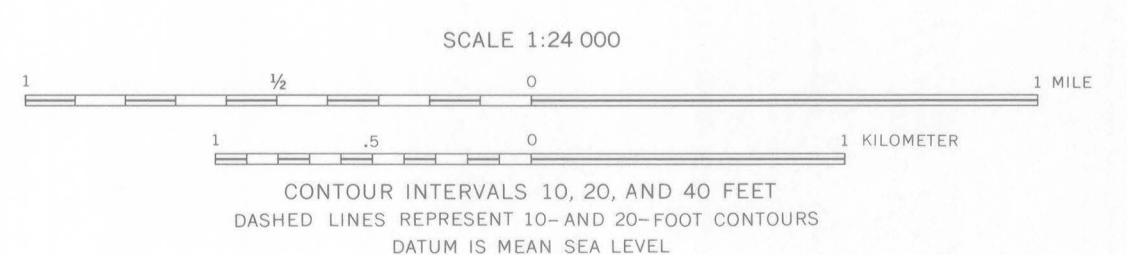


Effects	Transient effects		Permanent effects	
	Map Symbol		Map Symbol	
Terrain	 0.75 Z ₁	Predominant direction of horizontal motion and duration of shaking, in minutes. Perceptible shaking experienced over entire area of plate 4. Visible surface waves	 Fractures and offsets Pressure ridges Developed extensively along fracture zones; see Clark, this volume Scarps Developed along fracture zones that coincide with preexisting scarps; see Clark, this volume	Slope failures ¹ Rockfalls Soilfalls Rock slides Slumps and incipient slump cracks (fissures generated in headwall regions of evolving slides) in natural materials Slumps in artificial fill Slumps in artificial fill along shoreline (canal, river, or lake) Shattered crusts; natural deposits Shattered crusts; artificial deposits Compaction features Cracked surficial deposits Faulted surficial deposits Sand boils Displaced pebbles or cobbles Collapsed animal burrows
Loose objects	Q Anchored objects (chandeliers, flagpoles, trees) swung or whipped	S H ₁ H ₂ L ₁ Automobiles or trailers shifted laterally Heavy objects (furniture, water heaters, safes) shifted or projected Heavy objects overturned Light objects shifted, projected, or overturned		
Miscellaneous	Z ₂ J A ₁ A ₂	Seiche in swimming pool or storage tank Experienced difficulty in walking Sand in water following shock Increased flow from well following shock	M	Automobiles damaged by falling rock

¹Classification and terminology modified after Varnes (1958)

Base from U.S. Geological Survey 1:24,000 Borrego Mountain, 1950; Sirell Reef and Harper Canyon, 1959; Borrego Mountain SE, Harpers Well, and Kane Spring, 1956



MAP SHOWING DISTRIBUTION OF EFFECTS OF THE BORREGO MOUNTAIN EARTHQUAKE WITHIN THE EPICENTRAL AREA

Locations of tectonic fractures chiefly from plate 1; secondary tectonic fractures north-east and southeast of the main trace mapped by R.O. Castle, D.R. Nichols, and E.W. Wolfe. Data on earthquake effects compiled by R.O. Castle and T.L. Youd