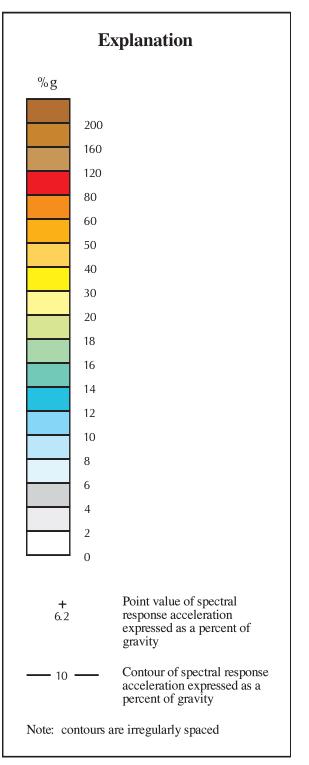


By Arthur Frankel, Charles Mueller, Theodore Barnhard, David Perkins, E.V. Leyendecker, Nancy Dickman, Stanley Hanson and Margaret Hopper 1997

SEISMIC-HAZARD MAPS FOR CALIFORNIA, NEVADA AND WESTERN ARIZONA/UTAH MAP E - HORIZONTAL SPECTRAL RESPONSE ACCELERATION FOR 0.2 SECOND PERIOD (5% OF CRITICAL DAMPING) WITH 5% PROBABILITY OF EXCEEDANCE IN 50 YEARS





Index map showing location of study area

DISCUSSION

The acceleration values contoured are the random horizontal component. Reference site condition is firm rock, defined as having an average shear-wave velocity of 760 m/sec in the top 30 meters, corresponding to the boundary between NEHRP site classes B and C. In some situations, particularly in areas of high ground-motions (e.g., along the San Andreas Fault) there are discontinuous chains, or islands, of high ground-motion values. This is an artifact of the grid ground-motion values. This is an artifact of the grid spacing used in the calculations. In most cases these chains should be replaced with continuous bands of high ground-motion values enclosing the chains. Documentation, gridded values, and ARC/INFO coverages used to make the maps are available at: http://geohazards.cr.usgs.gov/eq/

ACKNOWLEDGMENTS

California portion of the map produced jointly with the California Division of Mines and Geology. Ken Rukstales prepared the ARC/INFO digital data and formatted the GIS versions of the maps.

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