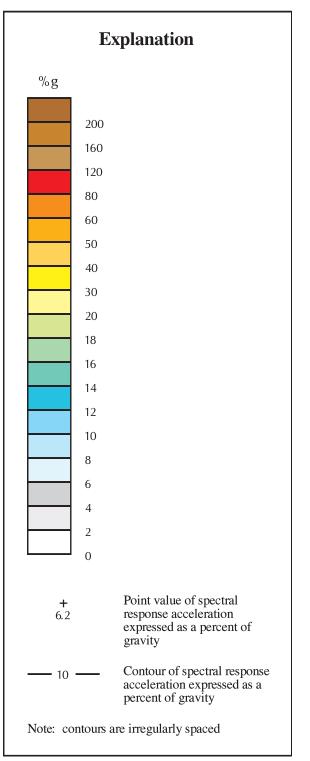
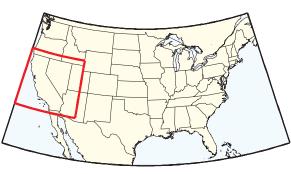


SEISMIC-HAZARD MAPS FOR CALIFORNIA, NEVADA AND WESTERN ARIZONA/UTAH MAP H - HORIZONTAL SPECTRAL RESPONSE ACCELERATION FOR 0.3 SECOND PERIOD (5% OF CRITICAL DAMPING) WITH 5% PROBABILITY OF EXCEEDANCE IN 50 YEARS

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

Digital data prepared with ARC/INFO 7.0.4 running under Solaris 2.5 on a UNIX workstation Albers Equal-Area Conic Projection Standard Parallels 29.5°N and 45.5°N Central Meridian 118° W





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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