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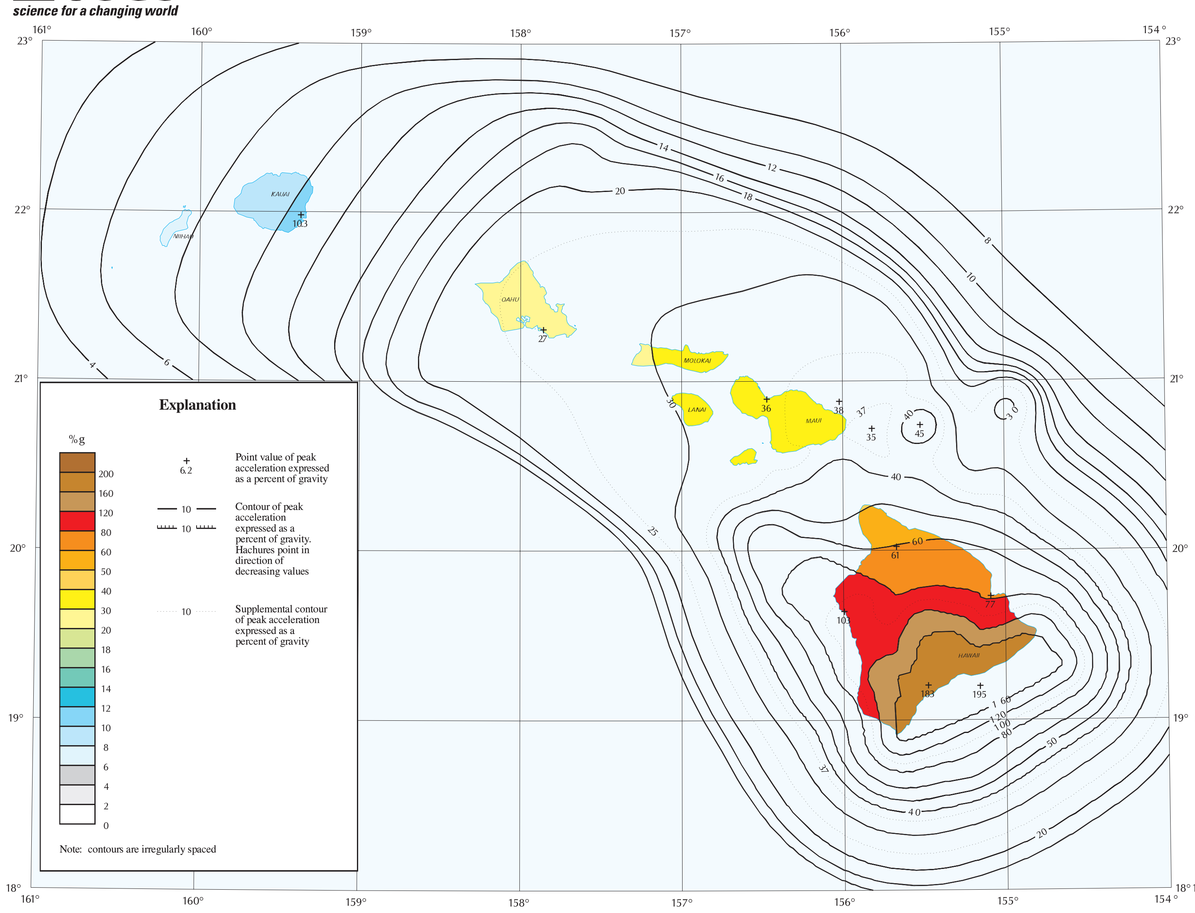
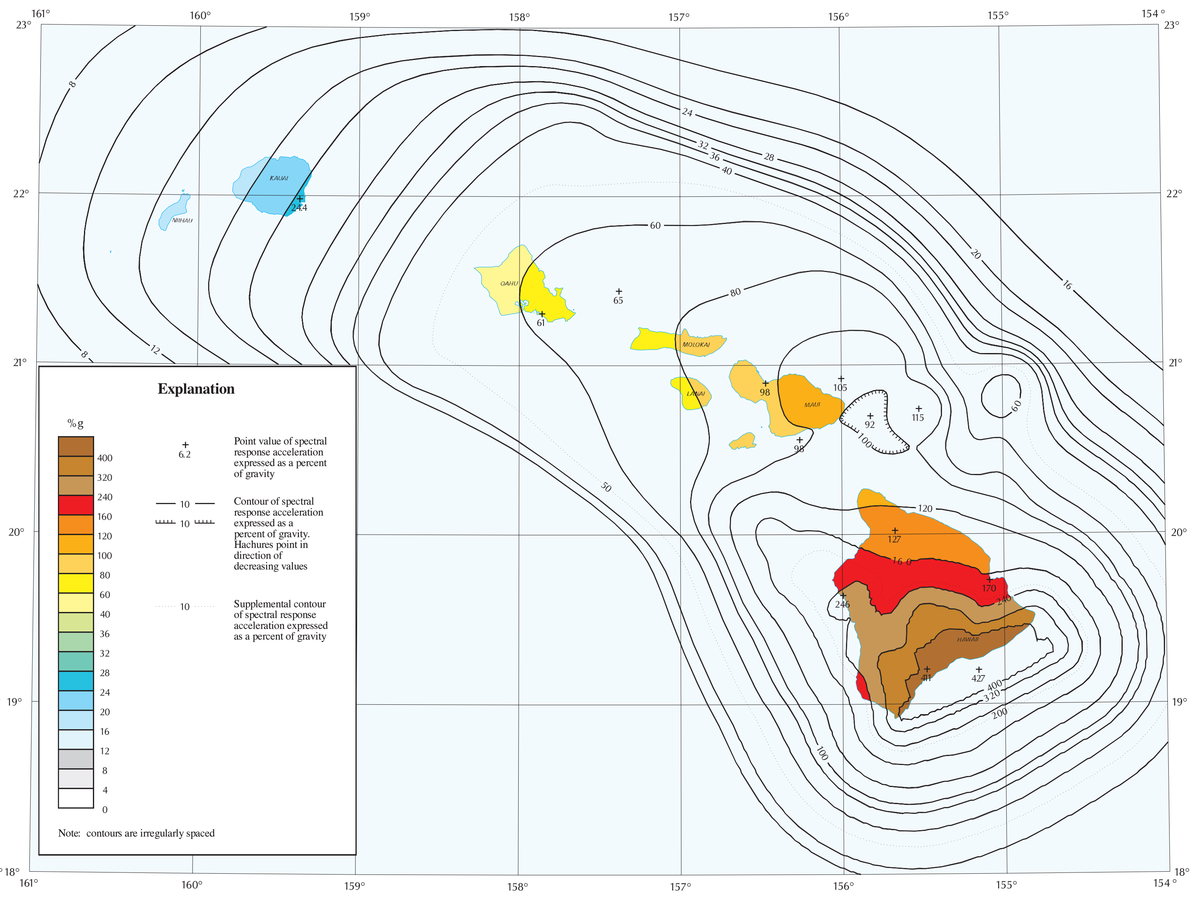
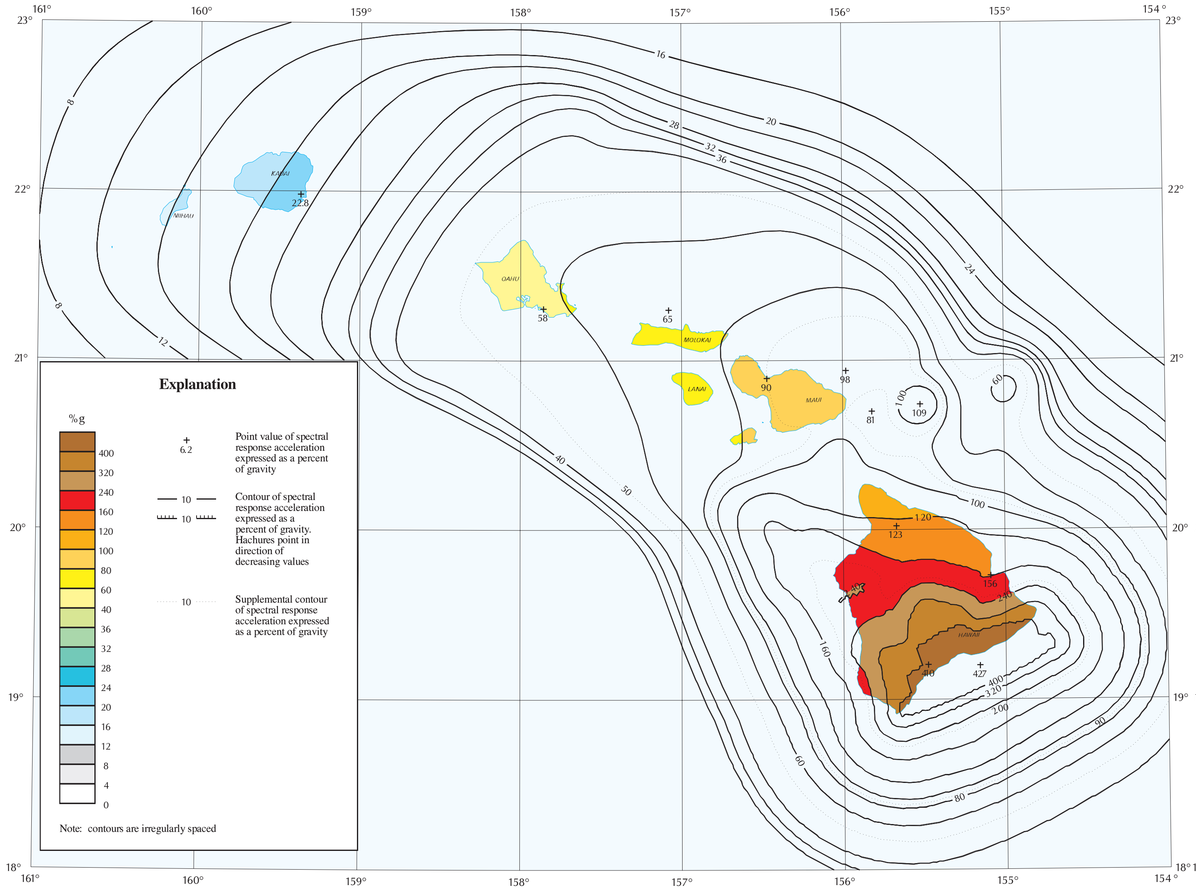
(SHEET 2 OF 2)



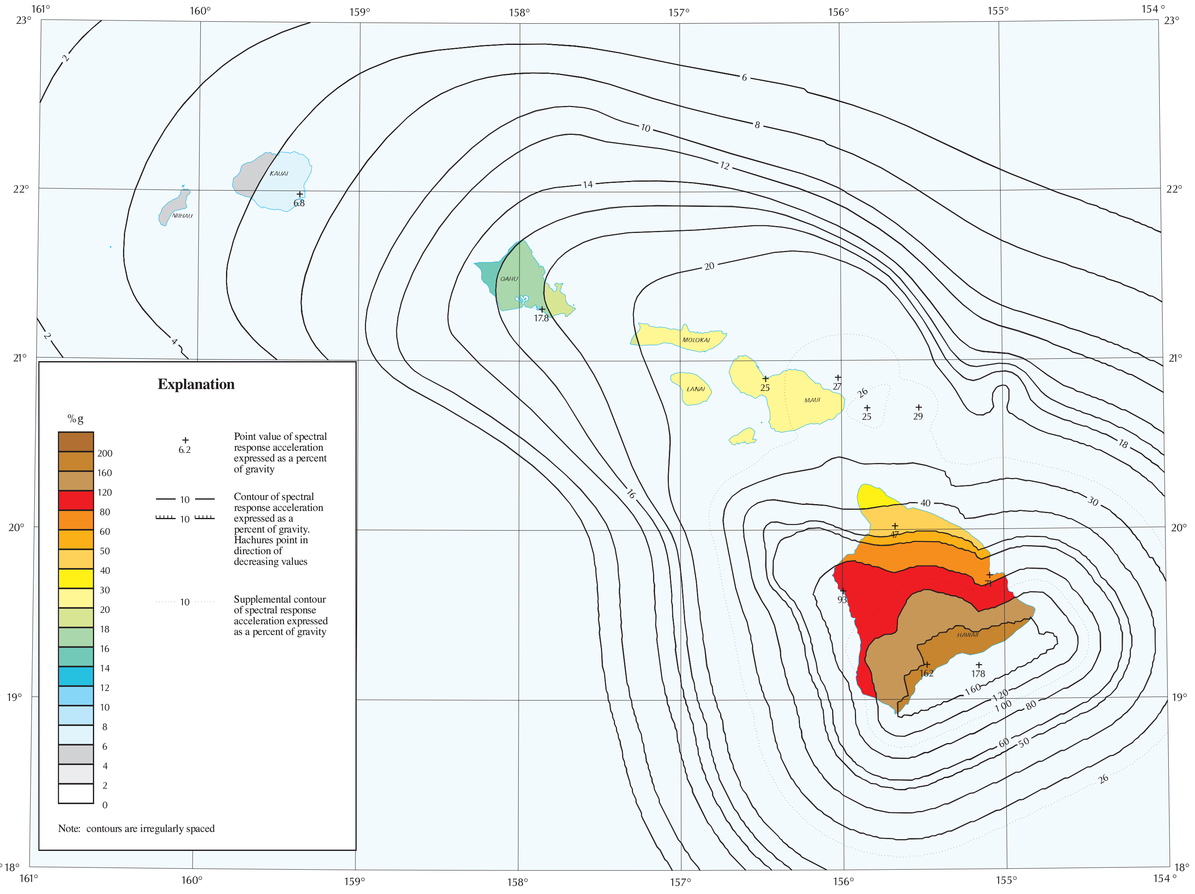
**PEAK HORIZONTAL ACCELERATION
WITH 2% PROBABILITY OF EXCEEDANCE IN 50 YEARS**



**HORIZONTAL SPECTRAL RESPONSE ACCELERATION FOR 0.2 SECOND PERIOD (5% OF CRITICAL DAMPING)
WITH 2% PROBABILITY OF EXCEEDANCE IN 50 YEARS**



**HORIZONTAL SPECTRAL RESPONSE ACCELERATION FOR 0.3 SECOND PERIOD (5% OF CRITICAL DAMPING)
WITH 2% PROBABILITY OF EXCEEDANCE IN 50 YEARS**



**HORIZONTAL SPECTRAL RESPONSE ACCELERATION FOR 1.0 SECOND PERIOD (5% OF CRITICAL DAMPING)
WITH 2% PROBABILITY OF EXCEEDANCE IN 50 YEARS**

Scale 1:2,000,000

25 0 25 50 75 100 125 150 175 200 225 250 275 300 KILOMETERS

25 0 25 50 75 100 125 150 175 200 225 250 275 300 MILES

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. See Klein and others (2000) for a description of the seismic data and assumptions used to make the maps.

Additional information, including gridded values and ARC/INFO coverages used to make the maps, is available at: http://geohazards.cr.usgs.gov/eq/

This, and other USGS publications are available on-line at: http://greenwood.cr.usgs.gov/

ACKNOWLEDGMENTS

Ken Rukstales prepared the GIS digital data and performed the cartographic layout of the maps.

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2% PROBABILITY OF EXCEEDANCE IN 50 YEARS FOR PEAK HORIZONTAL ACCELERATION AND HORIZONTAL SPECTRAL RESPONSE ACCELERATION FOR 0.2, 0.3, AND 1.0 SECOND PERIODS (5% OF CRITICAL DAMPING)

SEISMIC-HAZARD MAPS FOR HAWAII

By

Fred W. Klein, Arthur D. Frankel, Charles S. Mueller, Robert L. Wesson, and Paul G. Okubo

2000

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