



**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 700 m/sec in the top 30 meters, corresponding to the boundary between NEHRP site class B and C. In some situations, particularly in areas of high ground motion (e.g., along the coast of southeast Alaska), there are discontinuous chains, or islands, of high 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.  
Additional information, including gridded values and ASCII/INPO coverages used to make the maps, is available at: <http://geofacstaff.cr.usgs.gov/eq/>. This, and other USGS publications are available on-line at: <http://openwood.cr.usgs.gov/>

**ACKNOWLEDGMENTS**  
We thank Max Wyss and Stefan Wismer of the Geophysical Institute, University of Alaska, and John Lahr of the U.S. Geological Survey for their help with earthquake catalogs. Ken Brakoske prepared the ASCII/INPO digital data and formatted the GIS versions of the maps.

**REFERENCES**  
Frankel, A., Mueller, C., Barnhart, T., Perkins, D., Leyendecker, E.V., Dickman, N., Hanson, S., and Hopper, M., 1996, National Seismic Hazard Maps: Documentation June 1996, U.S. Geological Survey Open-File Report 96-532, 110 p.  
Frankel, A., Mueller, C., Barnhart, T., Perkins, D., Leyendecker, E.V., Dickman, N., Hanson, S., and Hopper, M., 1997, Seismic-Hazard Maps for California, Nevada and Western Arizona/Utah, U.S. Geological Survey Open-File Report 97-130, 12 sheets, scale 1:2,000,000.  
Frankel, A., Mueller, C., Barnhart, T., Perkins, D., Leyendecker, E.V., Dickman, N., Hanson, S., and Hopper, M., 1997, Seismic-Hazard Maps for the Conterminous United States, U.S. Geological Survey Open-File Report 97-131, 12 sheets, scale 1:7,000,000.  
Patterson, M., Bryant, W., Comer, C., Cao, T., Rejzinski, M., Frankel, A., Lorkampfer, J., McCarty, P., and Schwartz, D., 1996, Probabilistic Seismic Hazard Assessment for the State of California, California Division of Mines and Geology Open-File Report 96-08, 66 p., and U.S. Geological Survey Open-File Report 96-706, 66 p.  
Wesson, R., Frankel, A., Mueller, C., and Hanson, S., 1995, Probabilistic Seismic Hazard Maps of Alaska, U.S. Geological Survey Open-File Report 95-36, 48 p.

**SHEET 2 - 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 ALASKA AND THE ALEUTIAN ISLANDS**

By  
**Robert L. Wesson, Arthur D. Frankel, Charles S. Mueller, and Stephen C. Harmsen**