

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/s in the top 30 meters, corresponding to the boundary between NEHRP (National Earthquake Hazards Reduction Program) site classes B and C. Documentation, gridded values, interactive maps, and GIS data used to make the map are available online at <http://earthquake.usgs.gov/hazards> or <http://dx.doi.org/10.3133/sim3325>.

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Petersen, M.D., Moschetti, M.P., Powers, P.M., Mueller, C.S., Haller, K.M., Frankel, A.D., Zeng, Yuehua, Rezaeian, Sanaz, Harsmen, S.C., Boyd, O.S., Field, E.H., Chen, Rui, Rukstales, K.S., Luco, Nico, Wheeler, R.L., Williams, R.A., and Olsen, A.H., 2014. Documentation for the 2014 Update of the United States National Seismic Hazard Maps: U.S. Geological Survey Open-File Report 2014-1091, 243 p., <http://dx.doi.org/10.3133/ofr20141091>.

EXPLANATION
Peak acceleration expressed as a percent of gravity (%g)

>200
160-200
120-160
80-120
60-80
50-60
40-50
30-40
20-30
18-20
16-18
14-16
12-14
10-12
8-10
6-8
4-6
2-4
≤ 2

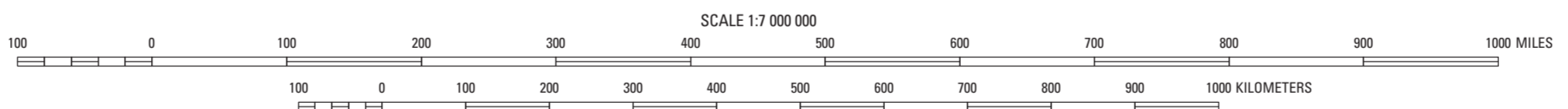
Contours of peak acceleration expressed as a percent of gravity (%g)

- Onshore
- - - Offshore

Point values of peak acceleration expressed as a percent of gravity (%g)

- ⊙ 3.2 Local maximum
- ⊕ 6.9 Local minimum
- ⊗ 8.8 Saddle point

Shaded relief base from Esri Inc., 2008, Data and Maps
All other base map data from Esri Inc., 1983, Digital Chart of the World
United States County base map from the U.S. Geological Survey National Atlas, available at <http://nationalatlas.gov/>
Projection: Albers equal-area conic
Standard parallels 29.5°N and 45.5°N, central meridian 95°W



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Seismic-Hazard Maps for the Conterminous United States, 2014

Peak Horizontal Acceleration with 2 Percent Probability of Exceedance in 50 Years

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