

**Sheet A-20—CEUS SSC Project GIS Data Summary**  
**USGS National Seismic Hazard Maps Seismic Zones—2008**

CEUS\_NSHM\_2008\_po\_R0.shp

CEUS\_NSHM\_2008\_pl\_R0.shp

eh1hz10pc50.tif	Earthquake hazard: 1 hz 10% in 50 years
eh1hz2pc50.tif	Earthquake hazard: 1 hz 2% in 50 years
eh1hz5pc50.tif	Earthquake hazard: 1 hz 5% in 50 years
eh3hz10pc50.tif	Earthquake hazard: 3 hz 10% in 50 years
eh3hz2pc50.tif	Earthquake hazard: 3 hz 2% in 50 years
eh3hz5pc50.tif	Earthquake hazard: 3 hz 5% in 50 years
eh5hz10pc50.tif	Earthquake hazard: 5 hz 10% in 50 years
eh5hz2pc50.tif	Earthquake hazard: 5 hz 2% in 50 years
eh5hz5pc50.tif	Earthquake hazard: 5 hz 5% in 50 years
ehpga10pc50.tif	Earthquake hazard: PGA 10% in 50 years
ehpga2pc50.tif	Earthquake hazard: PGA 2% in 50 years
ehpga5pc50.tif	Earthquake hazard: PGA 5% in 50 years

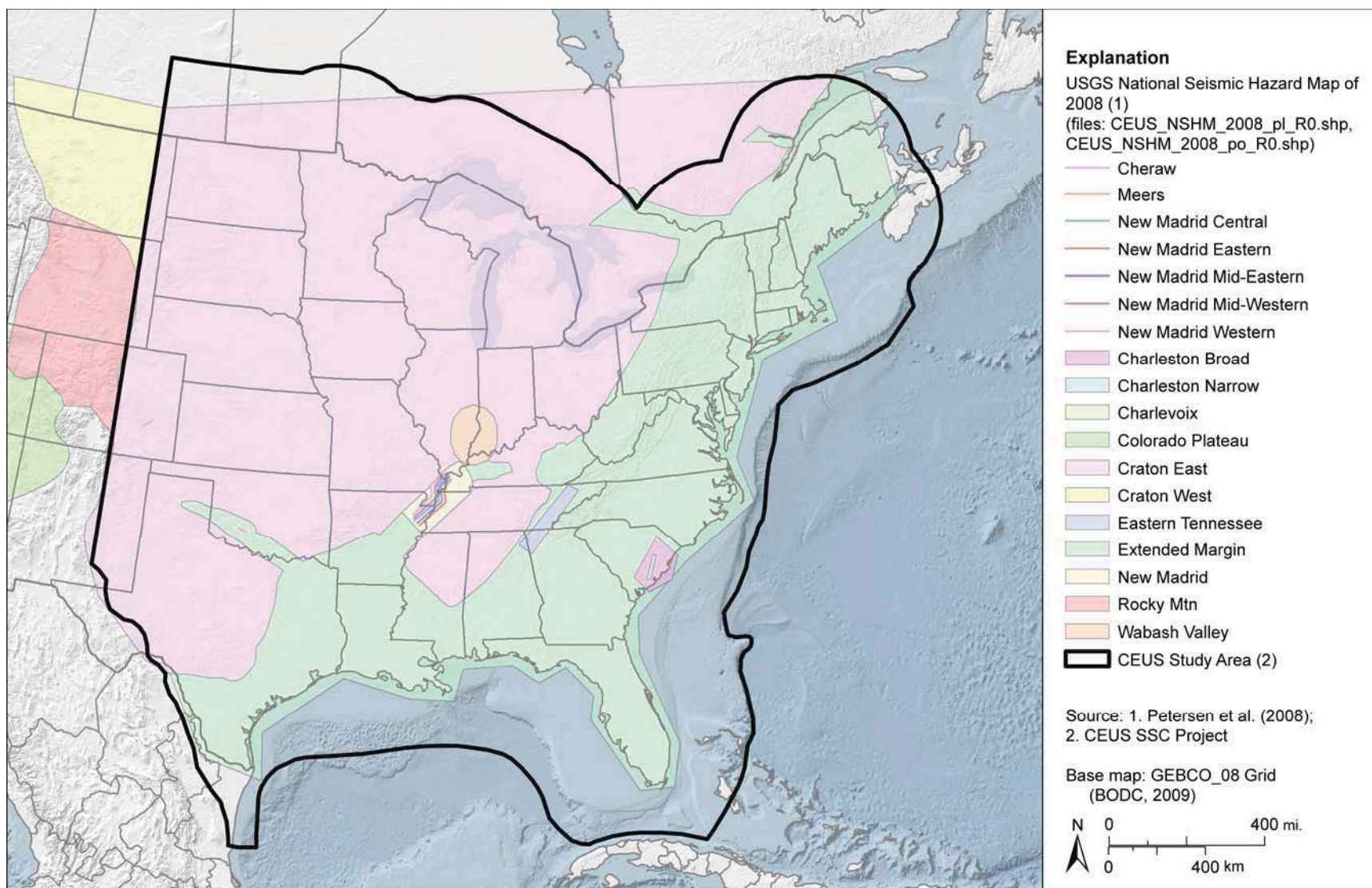
**Data Description:** Uniform background zones, special zones, finite fault sources and hazard probability layers for the CEUS. These zones were defined for U.S. Geological Survey Open-File Report 2008-1128, *Documentation for the 2008 Update of the United States National Seismic Hazard Maps*. The TIFF-format surfaces present ground motions for various probability levels.

**Source (Internet URL, CD/DVD-ROM):** ASCII text files provided by Charles Mueller, personal communication, May 2009.

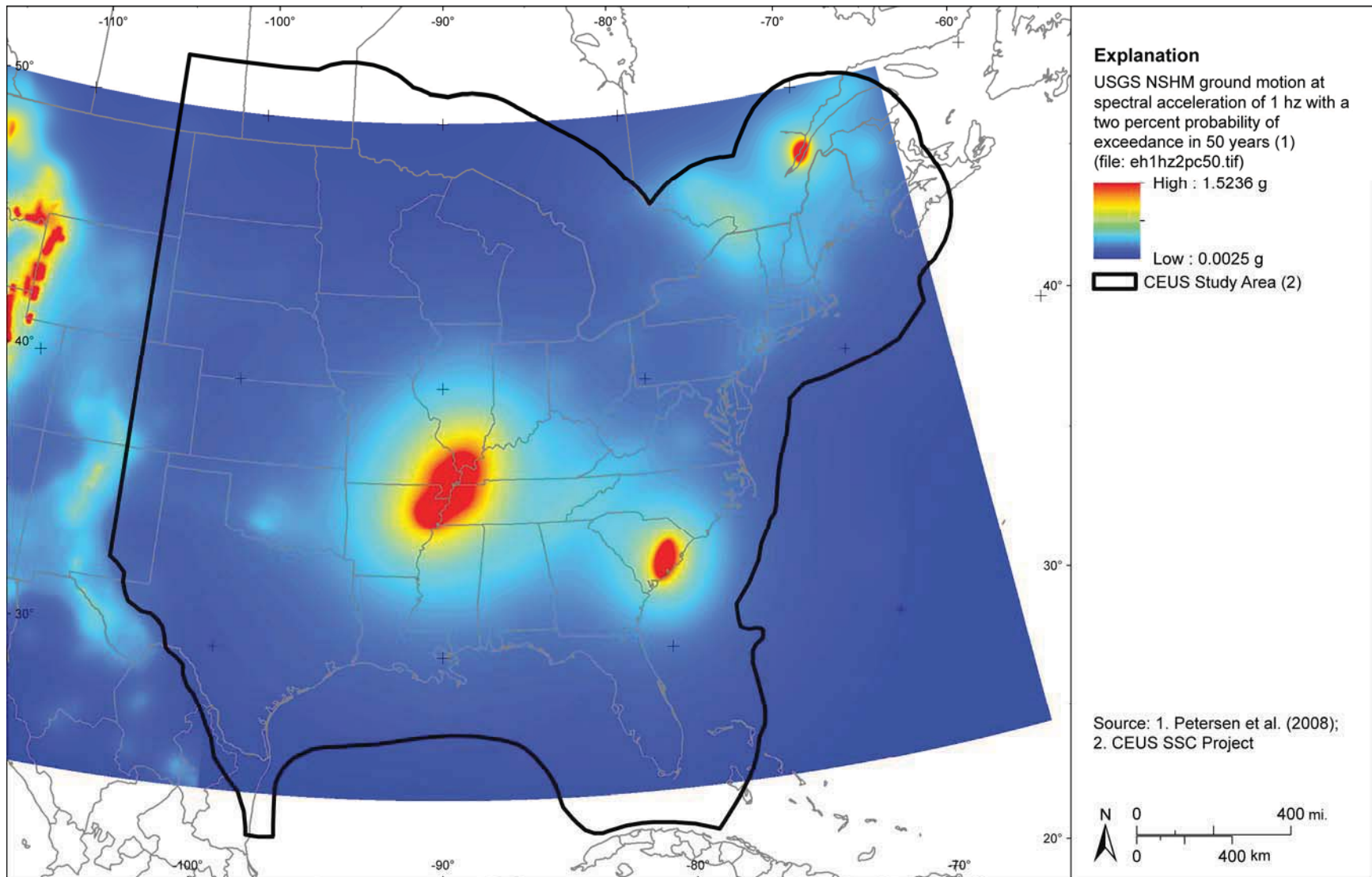
**Author/Publisher/Year:** Petersen, M.D., Frankel, A.D., Harmsen, S.C., Mueller, C.S., Haller, K.M., Wheeler, R.L., Wesson, R.L., Zeng, Y., Boyd, O.S., Perkins, D.M., Luco, N., Field, E.H., Wills, C.J., and Rukstales, K.S., 2008, *Documentation for the 2008 Update of the United States National Seismic Hazard Maps*: U.S. Geological Survey Open-File Report 2008-1128, 61 pp.

**Data Summary:** Data layers were compiled from source ASCII text files of latitude and longitude to define polygon and polyline boundaries. Text files that represent each uniform background zone were merged to create a single polygon GIS layer. Data are presented in geographic coordinates on the North American Datum of 1983.

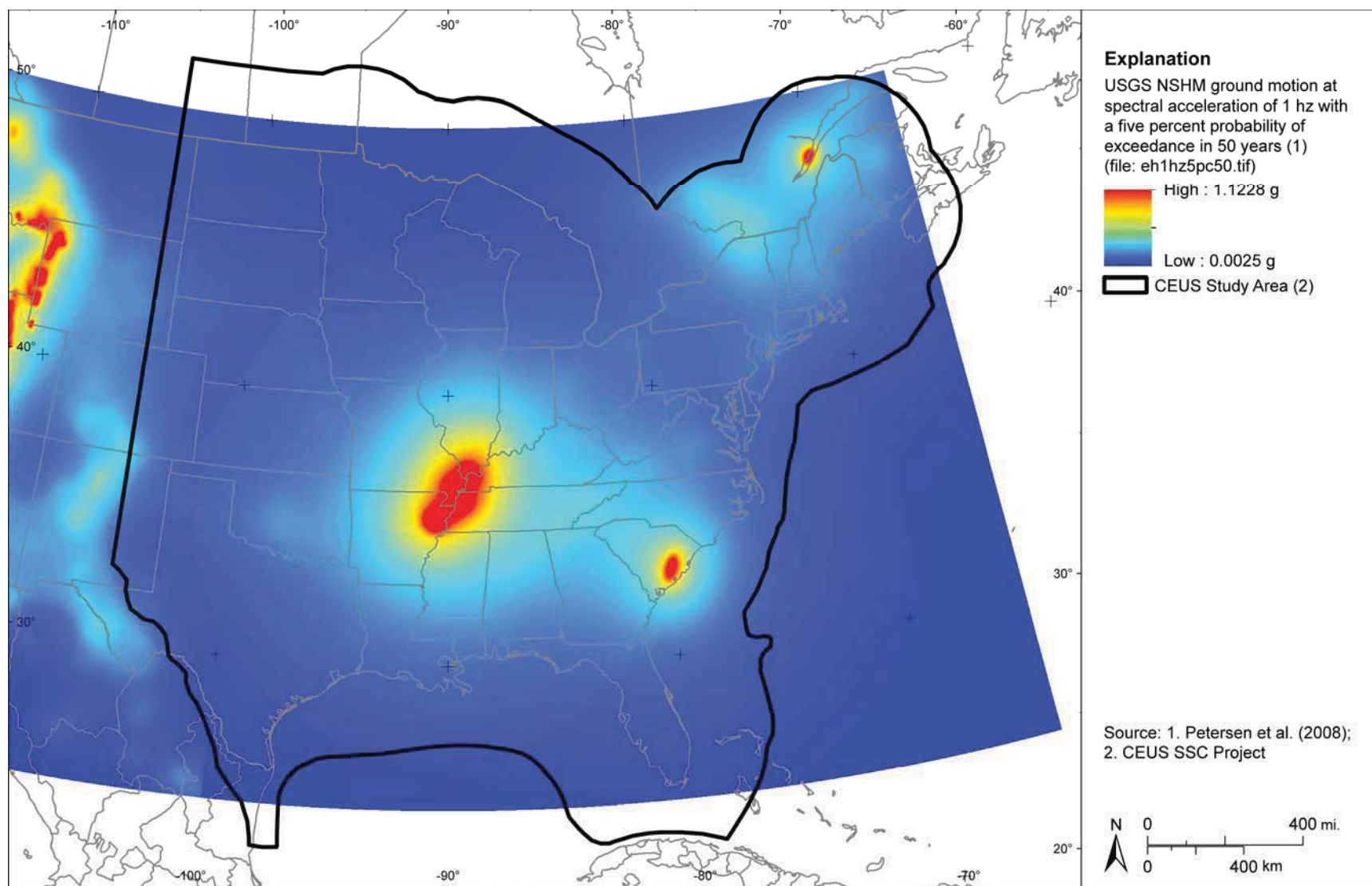
**Disclaimer or Constraints on Use:** No constraints have been identified.



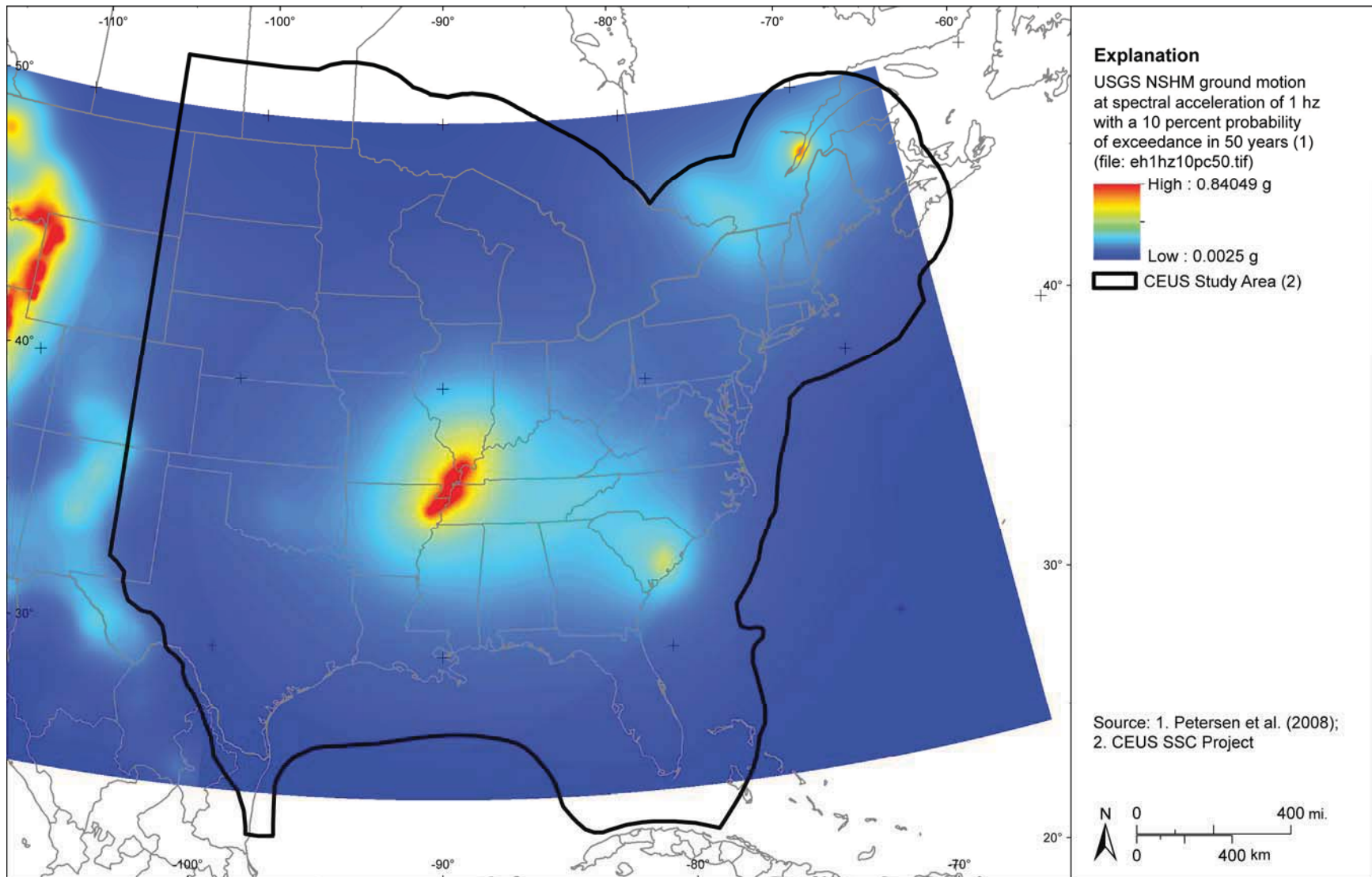
**Figure A-49**  
**USGS National Seismic Hazard Maps (Petersen et al., 2008)**



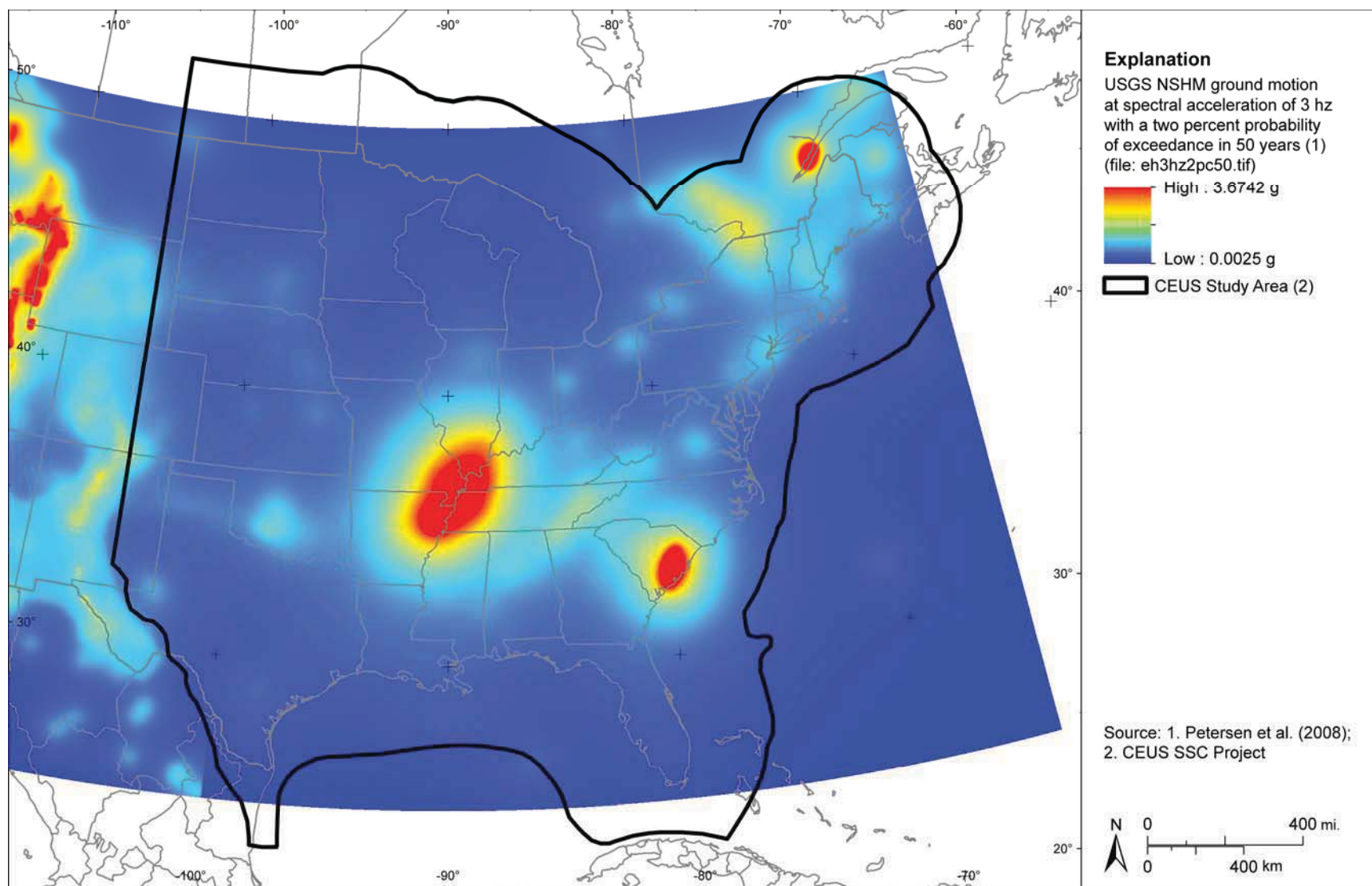
**Figure A-50**  
USGS NSHM ground motion hazard at spectral acceleration of 1 hz with 2% probability of exceedance in 50 years (Petersen et al., 2008)



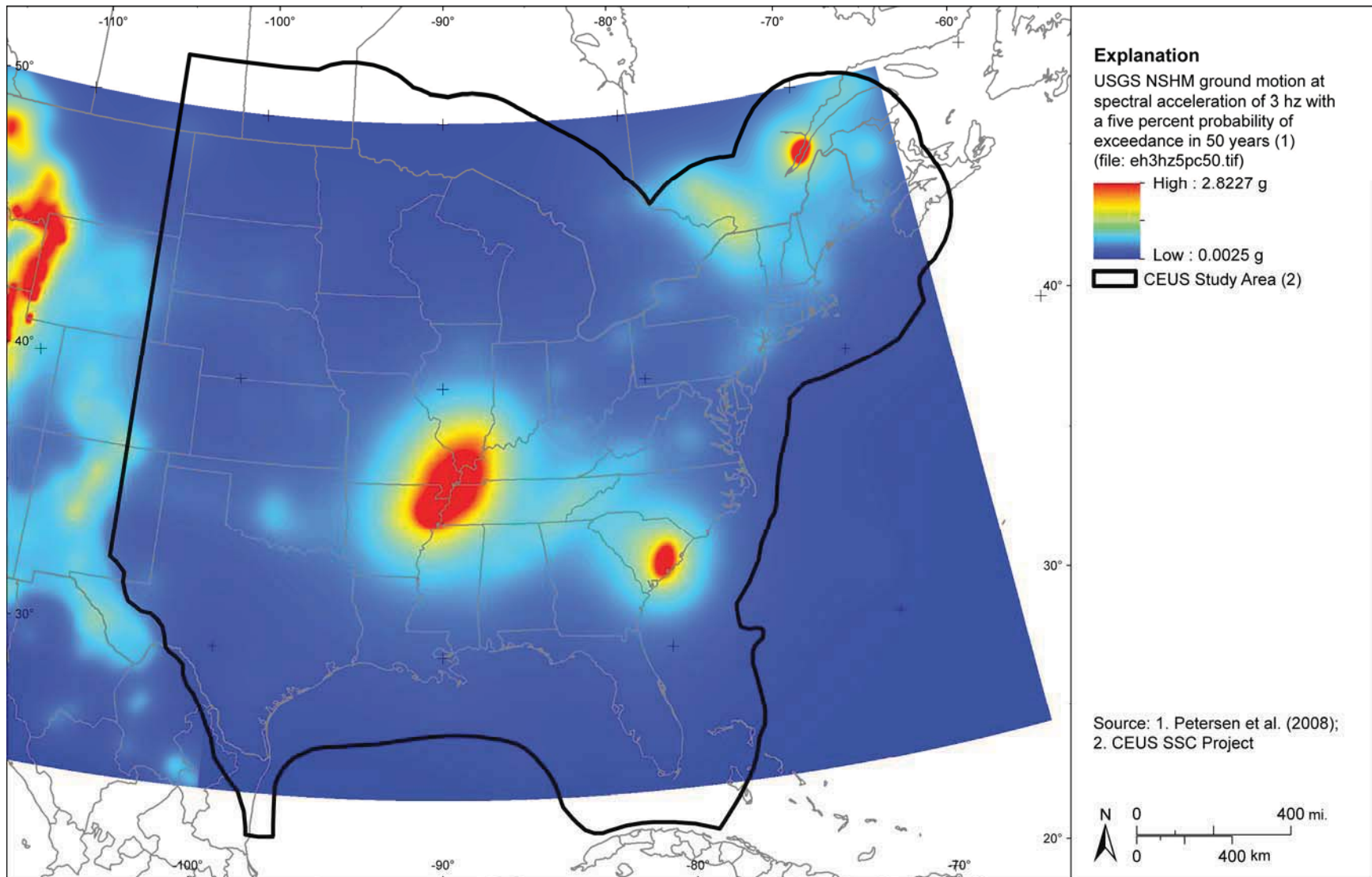
**Figure A-51**  
 USGS NSHM ground motion hazard at spectral acceleration of 1 hz with 5% probability of exceedance in 50 years (Petersen et al., 2008)



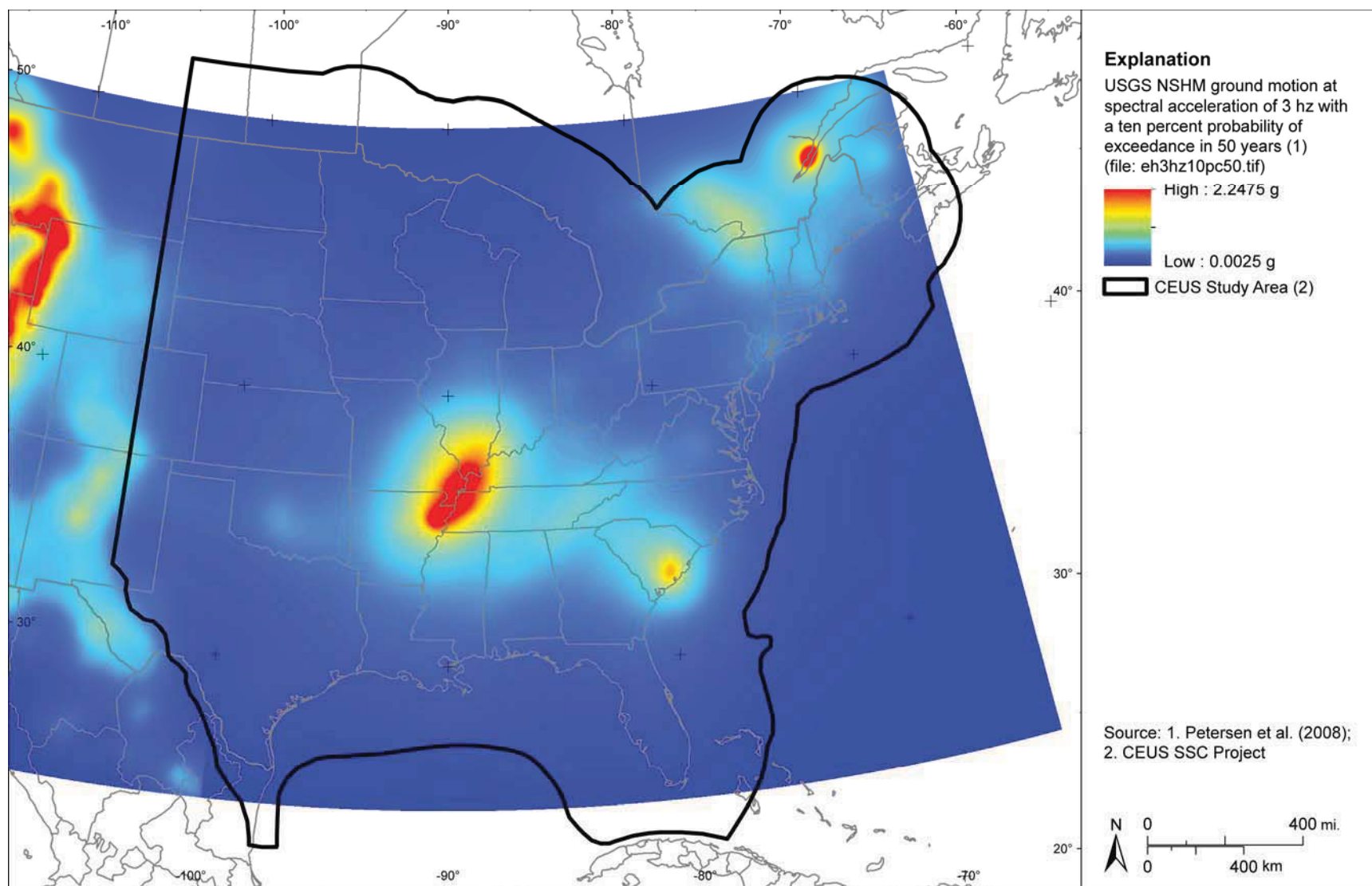
**Figure A-52**  
USGS NSHM ground motion hazard at spectral acceleration of 1 hz with 10% probability of exceedance in 50 years (Petersen et al., 2008)



**Figure A-53**  
 USGS NSHM ground motion hazard at spectral acceleration of 3 hz with 2% probability of exceedance in 50 years (Petersen et al., 2008)

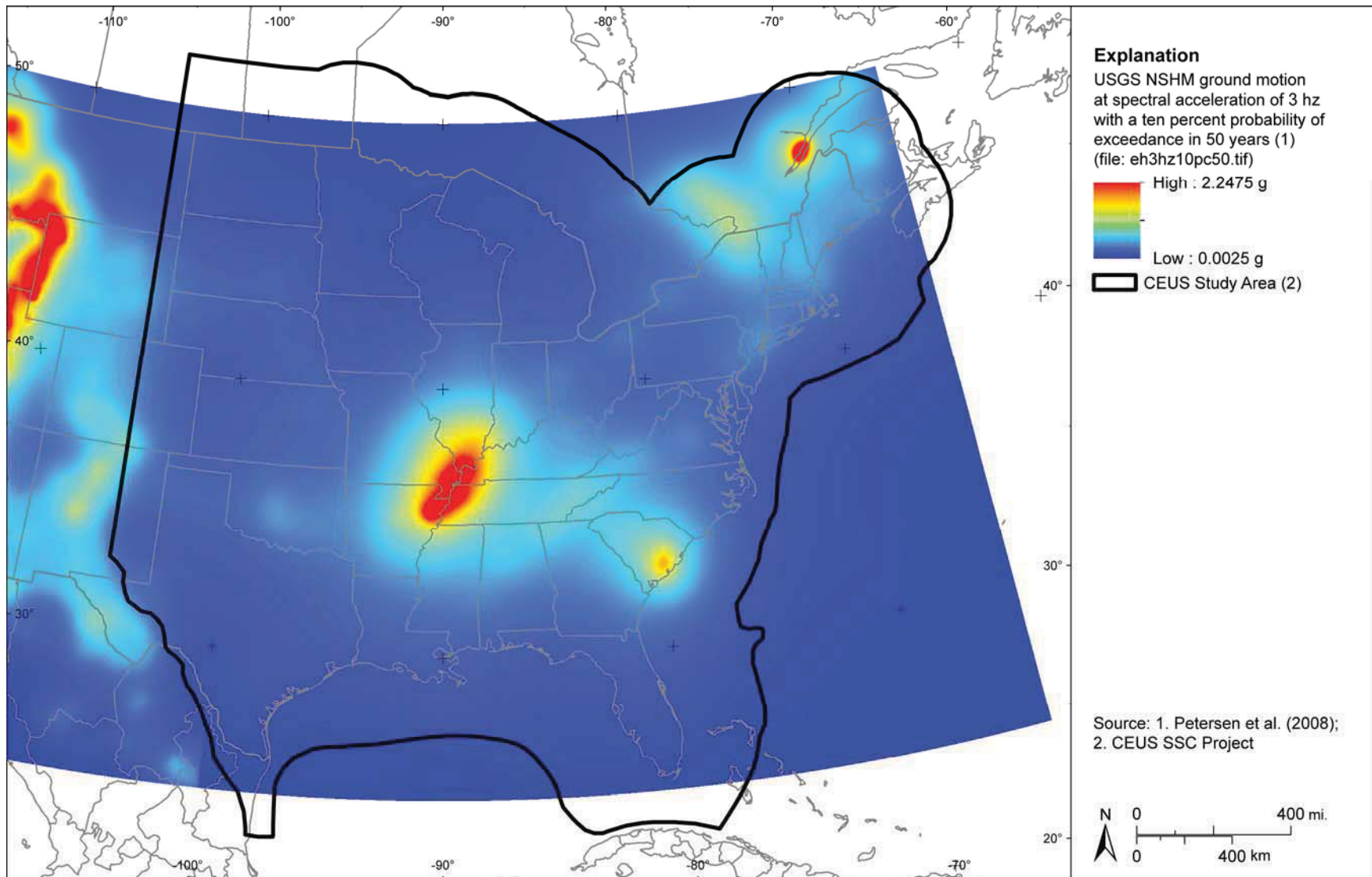


**Figure A-54**  
USGS NSHM ground motion hazard at spectral acceleration of 3 hz with 5% probability of exceedance in 50 years (Petersen et al., 2008)

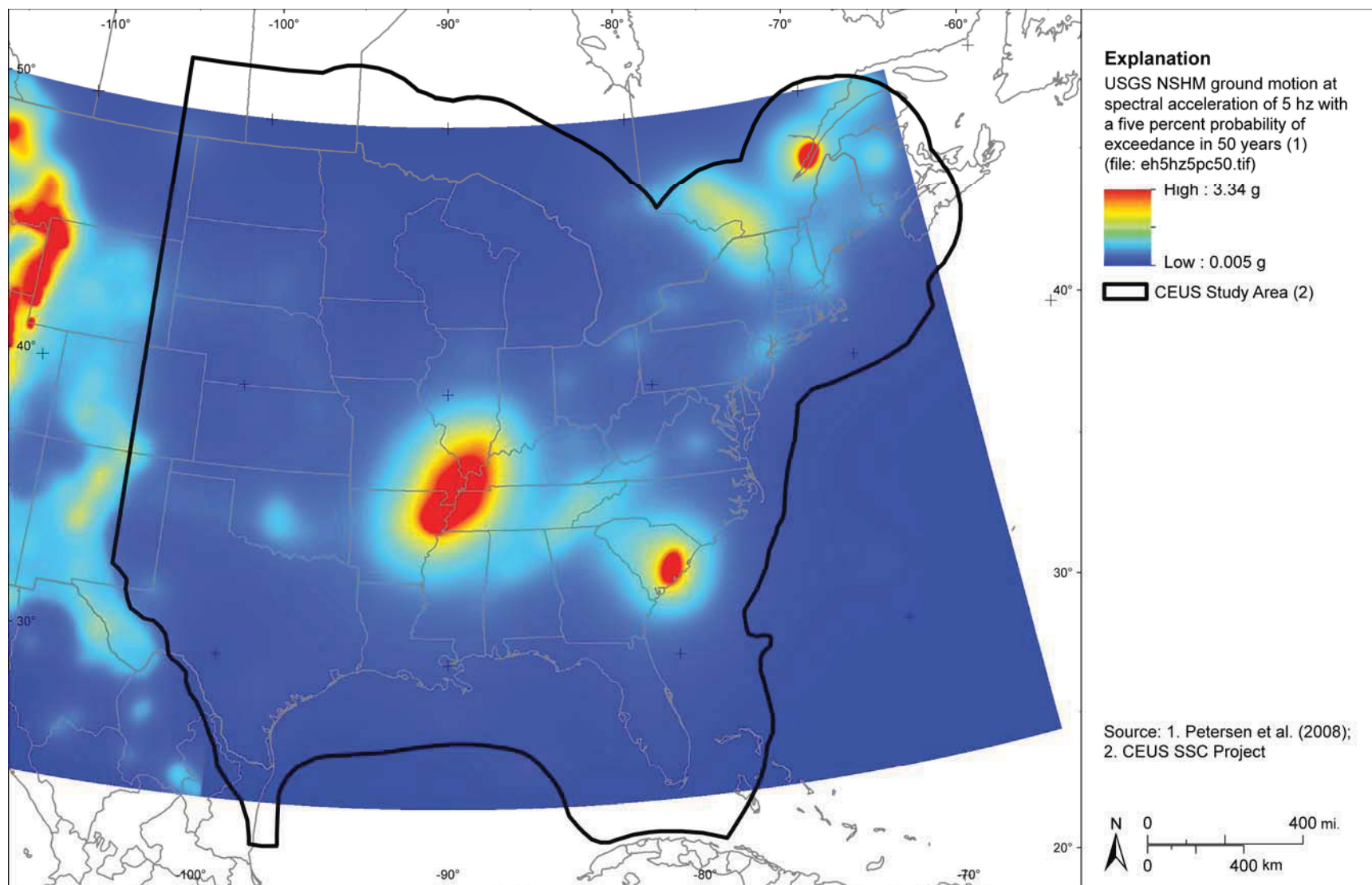


**Figure A-55**  
 USGS NSHM ground motion hazard at spectral acceleration of 3 hz with 10% probability of exceedance in 50 years (Petersen et al., 2008)

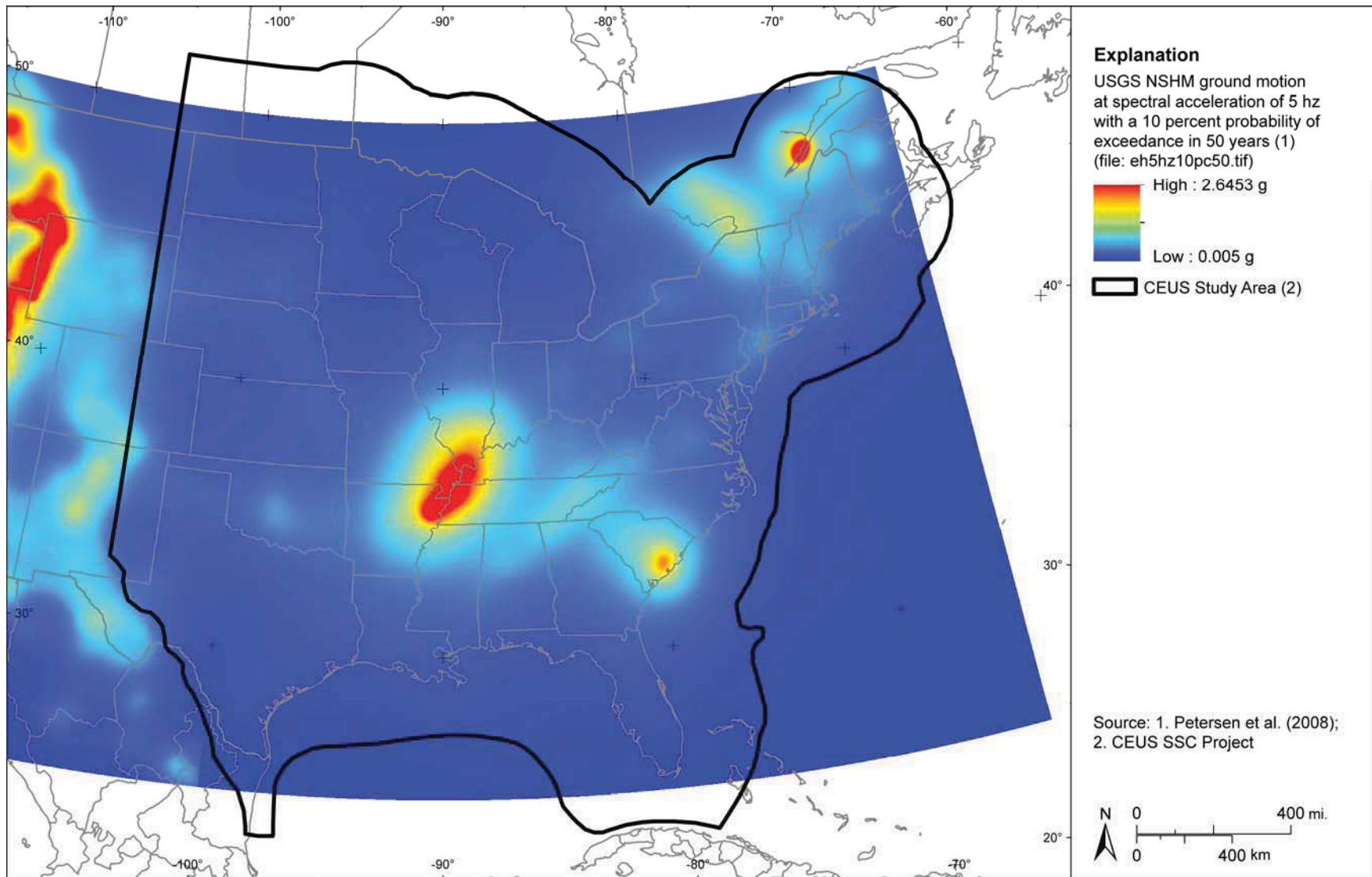




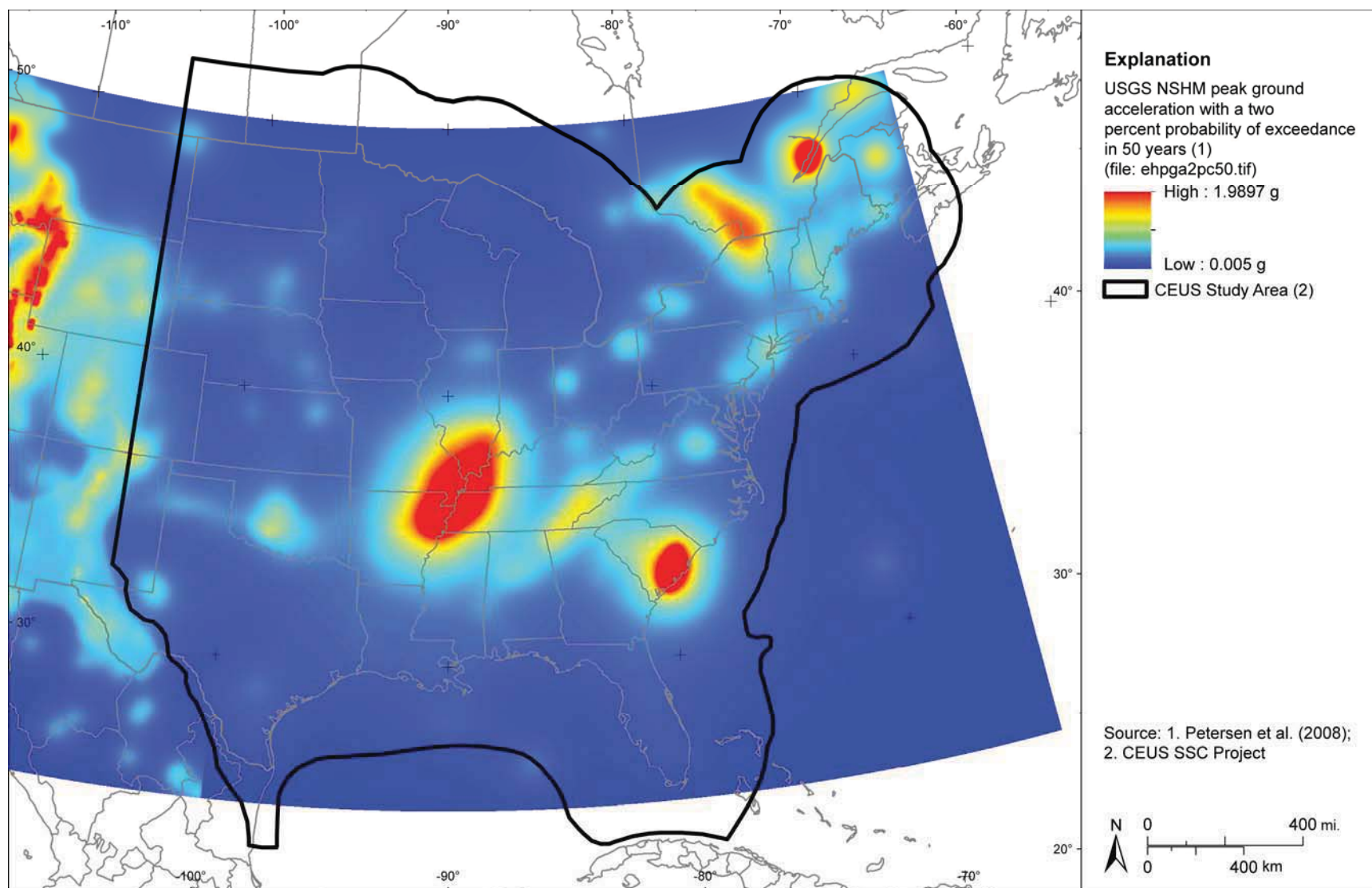
**Figure A-56**  
USGS NSHM ground motion hazard at spectral acceleration of 5 hz with 2% probability of exceedance in 50 years (Petersen et al., 2008)



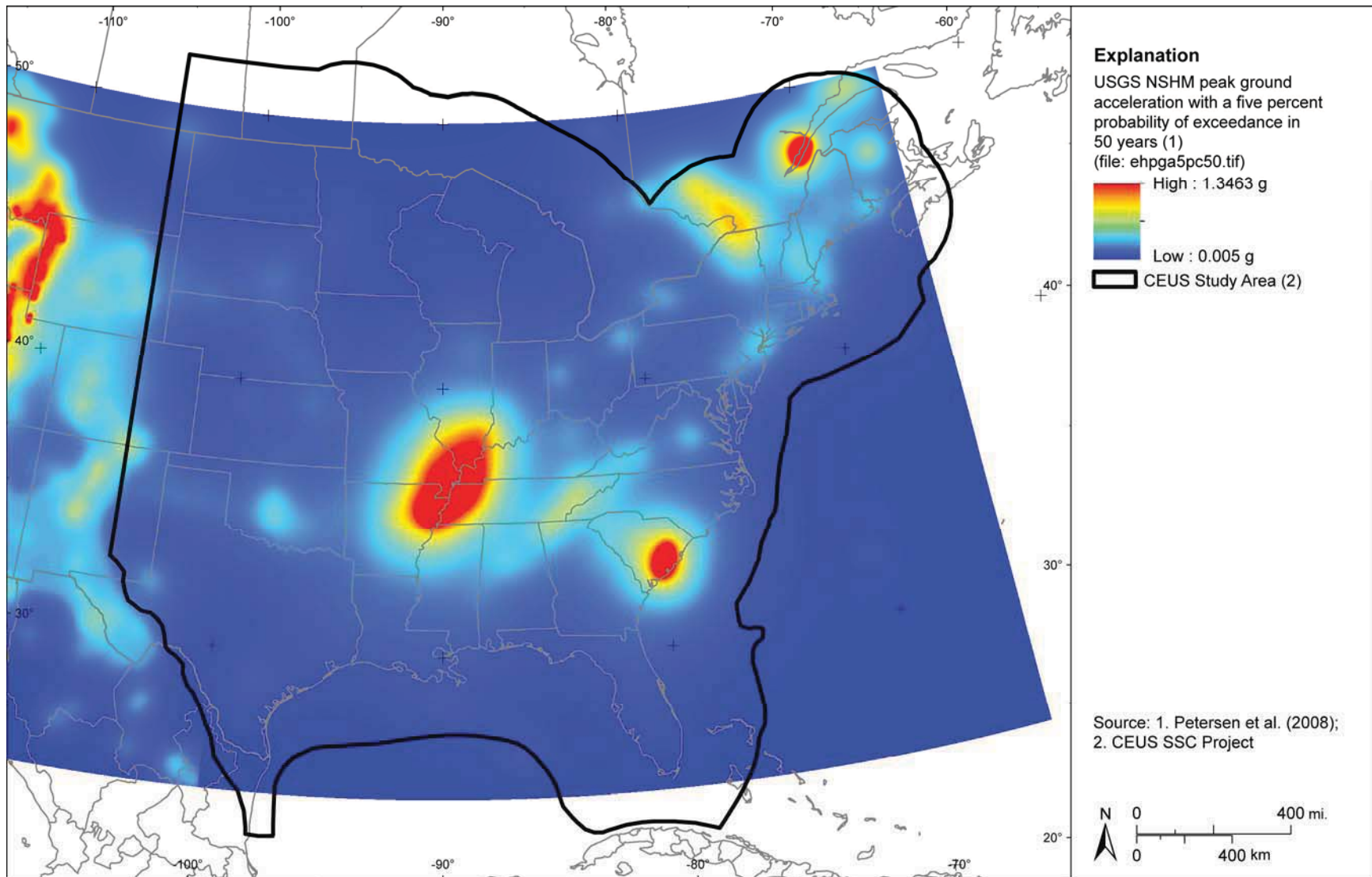
**Figure A-57**  
 USGS NSHM ground motion hazard at spectral acceleration of 5 hz with 5% probability of exceedance in 50 years (Petersen et al., 2008)



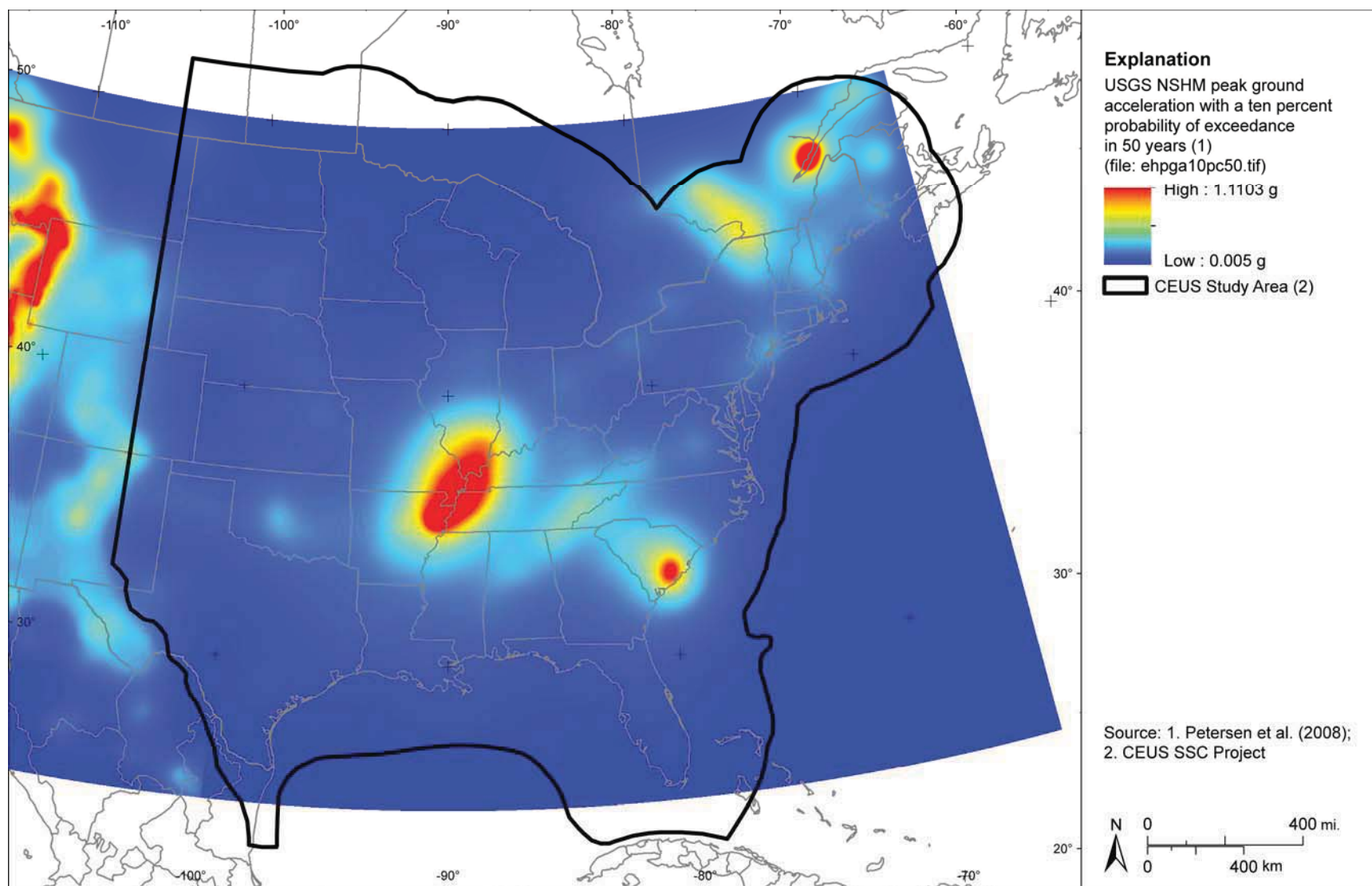
**Figure A-58**  
USGS NSHM ground motion hazard at spectral acceleration of 5 hz with 10% probability of exceedance in 50 years (Petersen et al., 2008)



**Figure A-59**  
 USGS NSHM peak ground acceleration with 2% probability of exceedance in 50 years (Petersen et al., 2008)



**Figure A-60**  
USGS NSHM peak ground acceleration with 5% probability of exceedance in 50 years (Petersen et al., 2008)



**Figure A-61**  
 USGS NSHM peak ground acceleration with 10% probability of exceedance in 50 years (Petersen et al., 2008)