

WABASH VALLEY FAULT SYSTEM

SSC Model: Mmax Zones Branch

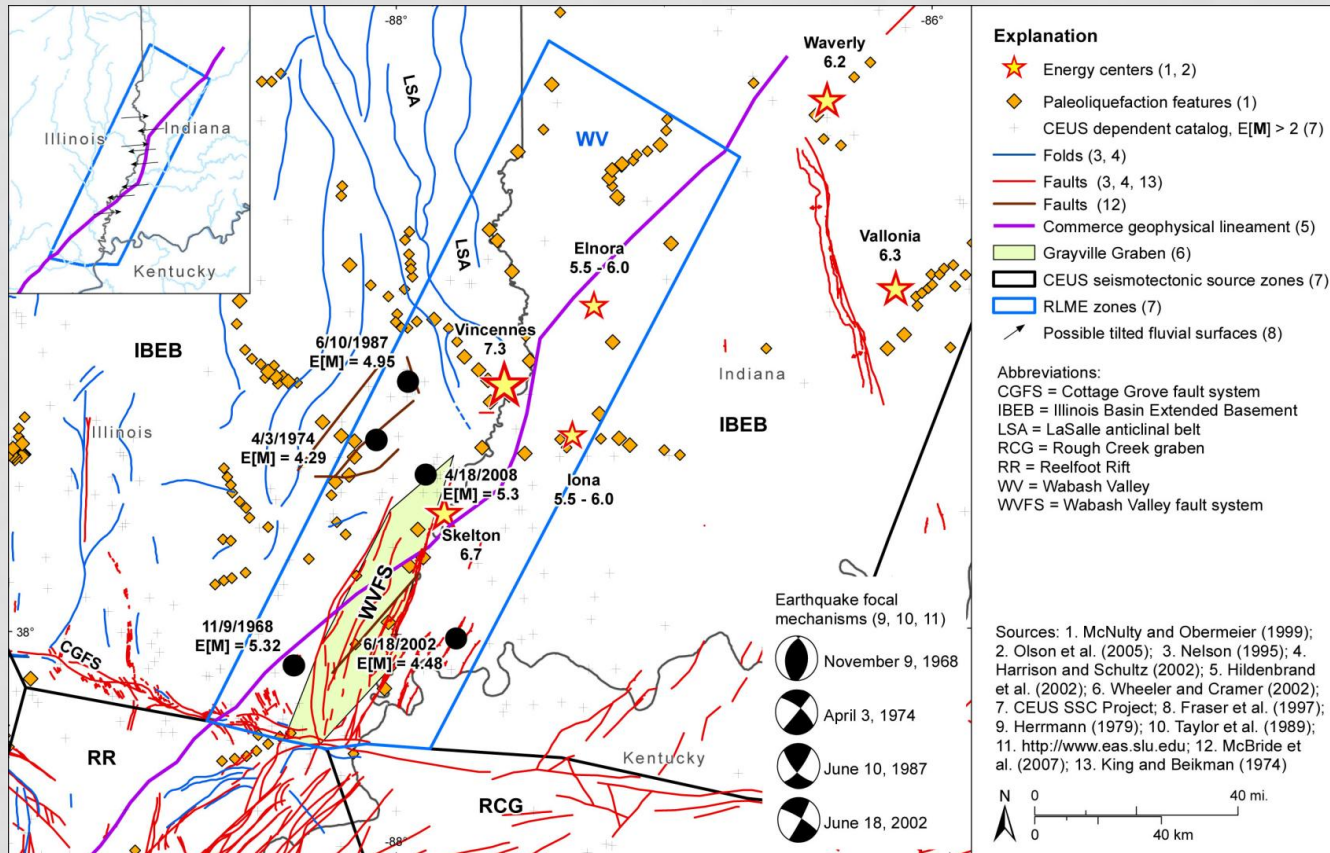


Fig 6.1.9.2
CEUS SSC report

RECENT WABASH REFERENCES

- Obermeier, S. F., 2009, Using liquefaction-induced and other soft-sediment features for paleoseismic analysis: *International Geophysics*, v. 95, pp. 499–566.
- Van Arsdale, R., Counts, R., and Woolery, E., 2009, Quaternary Displacement Along the Hovey Lake Fault of Southern Indiana and Western Kentucky: NEHRP Final report submitted to the U.S. Geological Survey, External Grant Number 07HQGR0052, 11 pp.
- Counts, R.C., Durbin, J.M., and Obermeier, S.F., 2008, Seismic ground-failure features in the vicinity of the Lower Wabash and Ohio River valleys: in Counts, M.H., and Counts, R.C. (editors), *From the Cincinnati Arch to the Illinois Basin: Geological Field Excursions Along the Ohio River Valley*: Geological Society of America Field Guide 12, pp. 57–79.
- McBride, J.H., Leetaru, H.E., Bauer, R.A., Tingey, B.E., and Schmidt, S.E.A., 2007, Deep faulting and structural reactivation beneath the southern Illinois basin: *Precambrian Research*, v. 157, pp. 289–313, doi:10.1016/j.precamres.2007.02.020.
- **Abstracts**
- Counts, R., Van Arsdale, R., Tuttle, M., Mahan, S. Obermeier, S., and Woolery, E., 2011 Paleoseismology in the New Madrid and Wabash Valley Seismic Zones, central United States [abs.]: XVIII INQUA Bern 2011, [link](#)
- Counts, R., Van Arsdale, R., and Woolery, E., 2009b, Paleoseismic Features Within the Wabash Valley Seismic Zone in Western Kentucky: presentation given at meeting of CEUS Earthquake Hazards Program, U.S. Geological Survey, October 28–29, Memphis, Tenn.
- Counts, R.C., Van Arsdale, R.B., and Woolery, E.W., 2009a, Investigation of Quaternary displacement on the Uniontown fault, western Kentucky [abstract]: *Geological Society of America, Abstracts with Programs*, v. 41, no. 1, p. 20.
- Counts, R.C., Woolery, E., and Van Arsdale, R.B., 2008, Quaternary faulting in Union County, Kentucky—Preliminary results: *Geological Society of America Abstracts with Programs*, v. 40, no. 5, p. 80.
- Counts, R.C., Waninger, S., and Obermeier, S.F., 2007, Liquefaction evidence for a strong earthquake in the lower Ohio River valley during the mid to late Holocene: *Geological Society of America Abstracts with Programs*, v. 39, no. 3, p. 4.

WABASH PALEOEARTHQUAKES

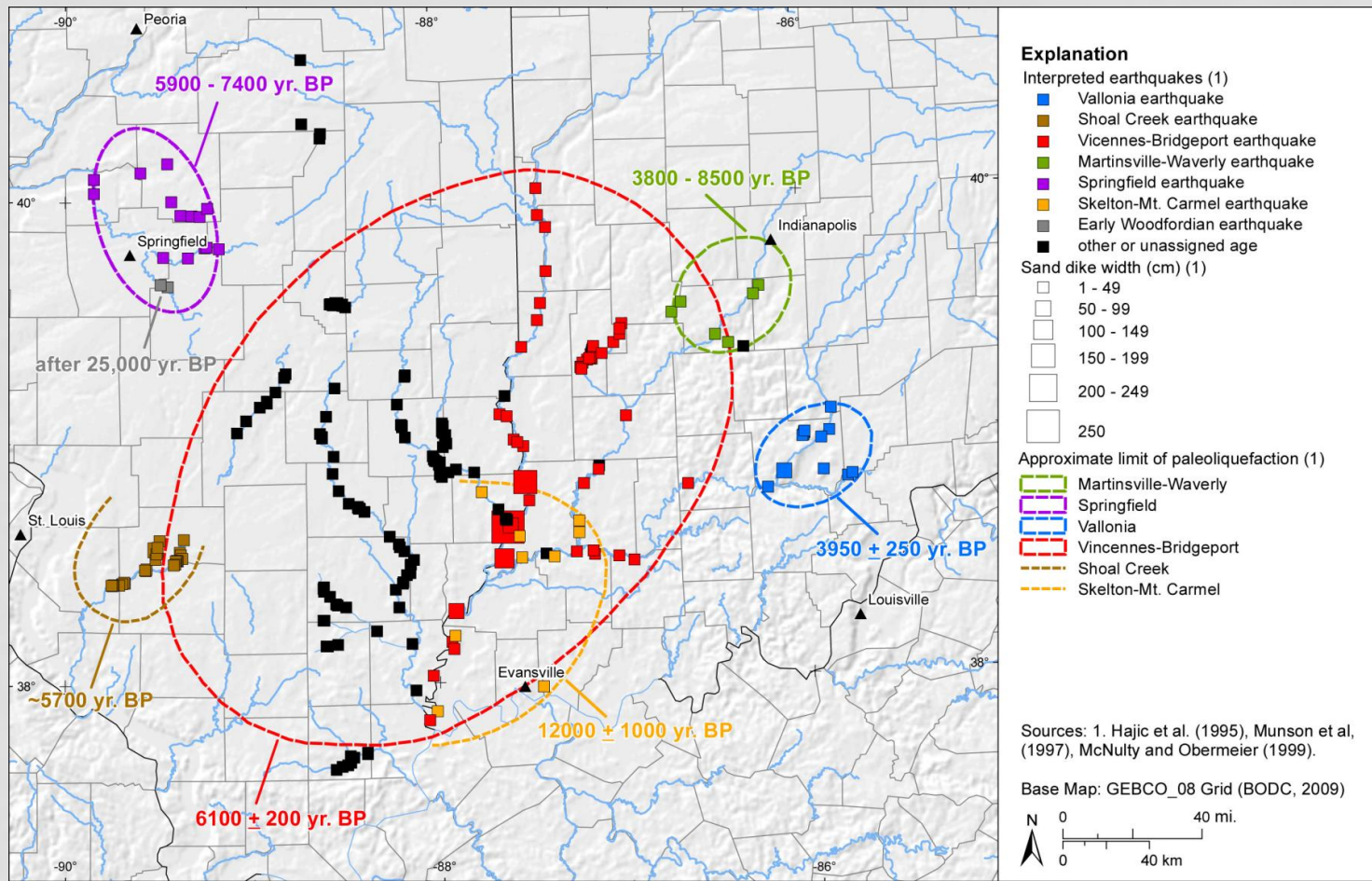
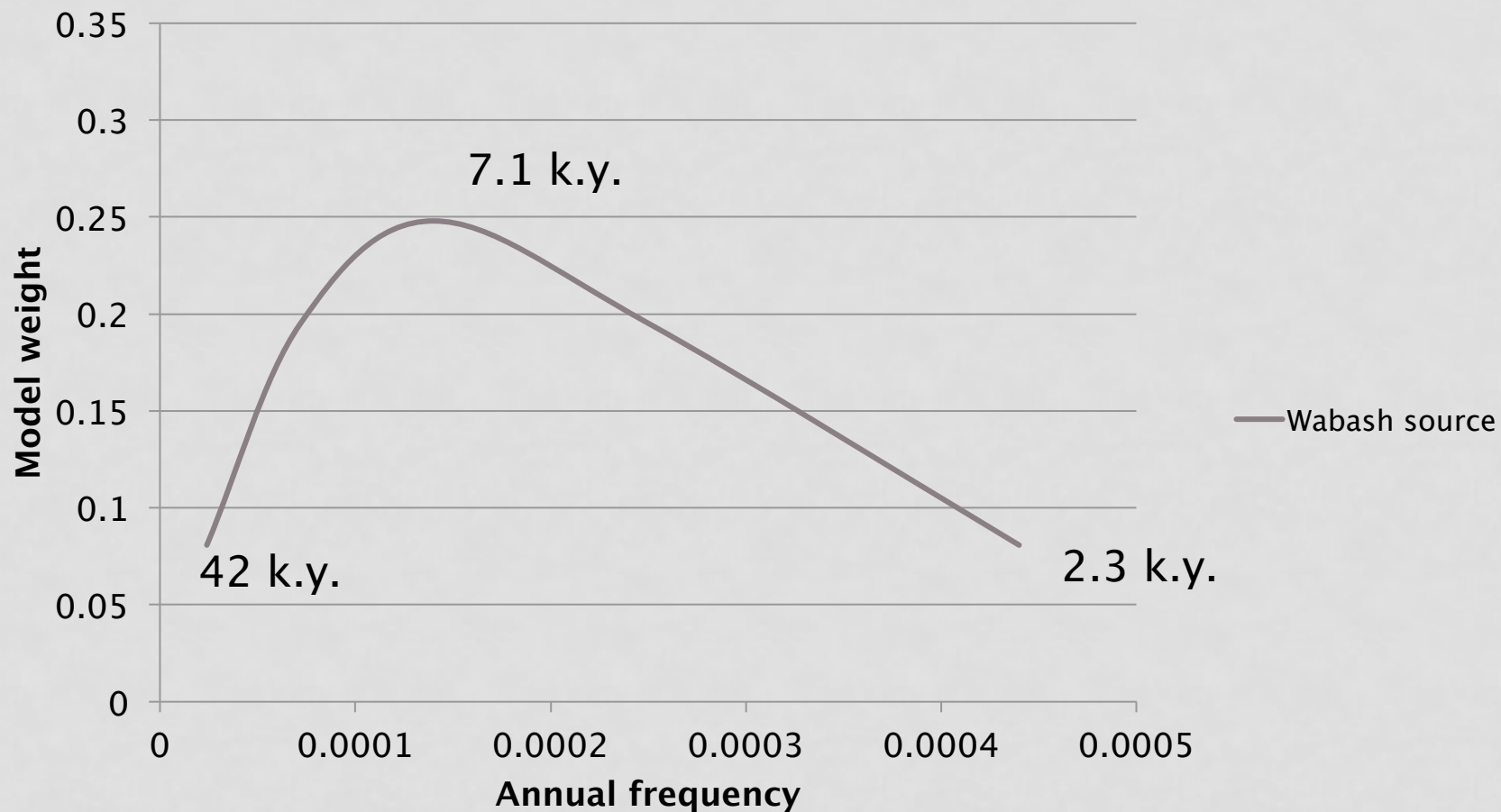


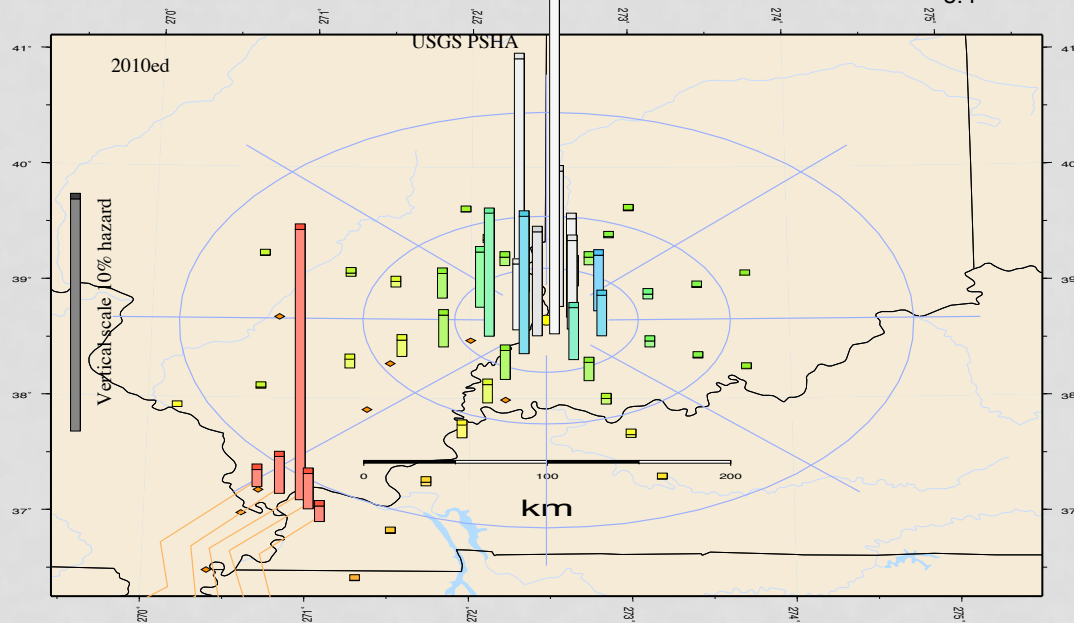
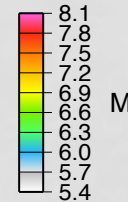
Fig E-33
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CEUS-SSC WABASH SOURCE



DEAGGREGATION--VINCENNES

Vincennes Geographic Deagg. Seismic Hazard
for 0.00-s Spectral Accel, 0.2529 g
PGA Exceedance Return Time: 2475 year
Max. significant source distance 269. km.
Deep-focus hazard plotted at equiv. radial distance
Gridded-source hazard accum. in 45° intervals
Rock site. Vs30(m/s) = 760.0



2012 Jan 27 17:36:55 Site Coords:-87.5240 38.6796 (yellow disk) Vs30= 760.0. Max annual ExcdRate .6110E-04 (column height prop. to ExRate). Diamonds: historical earthquakes. Red M>6,WUS. Orange M>5,CEUS