

Consensus on the Update of the CEUS GMMs in the 2018 NSHM

Mark Petersen USGS, Golden, CO USGS 2018 NSHM Update Workshop Wednesday, March 7th, 2018

U.S. Department of the Interior U.S. Geological Survey

Discussion Points

- 1. Should we use the NGA-East Seed GMMs, the NGA-East USGS GMMs, or a combination of the two (logic tree with weights)? Should we use the original or Updated NGA-East Seed GMMs (with the new SP16, G16, G17)? The updated NGA-East Seed and NGA-East USGS GMMs combined would require consideration of 30 tables.
- 2. If we use the NGA-East USGS GMMs, will we need to do Sammon's mapping for all future updates?
- 3. If we use the NGA-East Seed GMMs how should we weight the models?
- 4. Should we use the NGA-East USGS recommended total ergodic sigma model for both the NGA-East USGS GMMs and the Updated NGA-East Seed GMMs? Should we be using the epistemic uncertainty part of the sigma model?

Discussion Points (cont.)

- 5. Should we be using the Gulf coast adjustments?
- 6. Should we use the new NGA-East amplification factors?
- 7. What additional work needs to be done?
- 8. Any additional comments?