

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

Mark Petersen USGS, Golden, CO USGS 2018 NSHM Update Workshop Wednesday, March 7<sup>th</sup>, 2018

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## **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?