

Table 1 Summary of NGA-East median ground motion models (GMMs)

Approach	Constraints	Extrapolation	Title (Authorship), chapter number in PEER [2015]	Short name(s)/acronym(s)
Traditional Point-Source (PS) Stochastic (FAS-based)	PS model, published sets of empirical attenuation models, NGA-East database	PS model	2. Point-Source Stochastic-Method Simulations of Ground Motions for the PEER NGA-East Project (D.M. Boore)	Six GMMs based on alternate Q and geometrical spreading models: B_a04 B_ab14 B_ab95 B_bca10d B_bs11 B_sgd02
	PS model, broadband inversion of NGA-East database	PS model	3. Development of Hard Rock Ground-Motion Models for Region 2 of Central and Eastern North America (R.B. Darragh, N.A. Abrahamson, W.J. Silva, and N. Gregor)	Four GMMs based on single- or double-corner point source (1C or 2C) and on Constant or Variable Stress Parameter: 1CCSP 1CVSP 2CCSP 2CVSP
PS Referenced Empirical	PS model used to develop generic WUS GMM, hybrid empirical adjustment	Generic GMM adjusted to CENA data	4. Regionally-Adjustable Generic Ground-Motion Prediction Equation based on Equivalent Point-Source Simulations: Application to Central and Eastern North America (E. Yener and G.M. Atkinson)	YA15
Hybrid Empirical (FAS- and PSA-based)	Published sets of CENA and WUS PS models	GMM host region (WUS)	5. Ground-Motion Prediction Equations for Eastern North America using a Hybrid Empirical Method (S. Pezeshk, A. Zandieh, K.W. Campbell, and B. Tavakoli)	Two GMMs based on alternate large M-scaling (simulation- and empirical-based): PZCT15_MISS PZCT15_M2ES
Finite-Fault (FF) Simulations (PSA-based)	FF model, NGA-East database	FF model	6. Ground-Motion Predictions for Eastern North American Earthquakes Using Hybrid Broadband Seismograms from Finite-Fault Simulations with Constant Stress-Drop Scaling (A. Frankel)	Frankel
			7. Hybrid Empirical Ground-Motion Model for Central and Eastern North America using Hybrid Broadband Simulations and NGA-West2 GMPEs (A. Shahjouei and S. Pezeshk)	SP15
Traditional Empirical (PSA-based)	NGA-East database	Intensity	8. Empirical Ground-Motion Prediction Equations for Eastern North America (M.N. Al Noman and C.H. Cramer)	ANC15
		Imposed spectral shape	9. Ground-Motion Prediction Equations for the Central and Eastern United States (V. Graizer)	Graizer
Referenced Empirical (PSA-based)	NGA-East database	GMM host region (WUS)	10. Referenced Empirical Ground-Motion Model for Eastern North America (B. Hassani and G.M. Atkinson)	HA15
FAS-RVT-PSA Empirical (require FAS and duration models)	NGA-East database	PS and FF models for scaling, global GMs for extrapolation of duration model	11. PEER NGA-East Median Ground-Motion Models (J. Hollenback, N. Kuehn, C.A. Goulet and N.A. Abrahamson)	Two GMMs based on alternate finite-fault models (Graves and Pitarka and EXSIM): PEER_GP PEER_EX