Digital Appendix for: Generation of spectrum and energy-compatible (SEC) bi-directional ground motions via complex-valued wavelet transform

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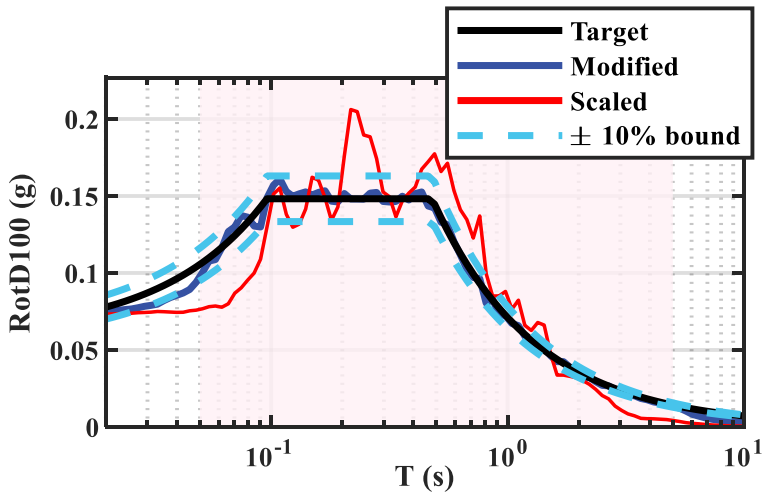
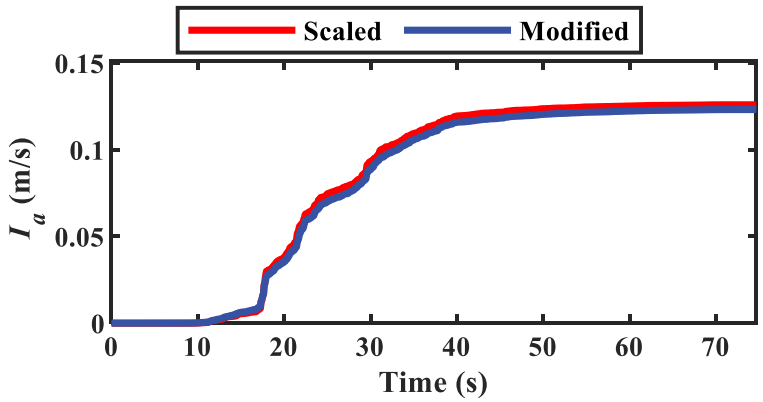
Results obtained using the proposed algorithm for the target ASCE RotD100 response spectrum

No. 1 RSN # 20744

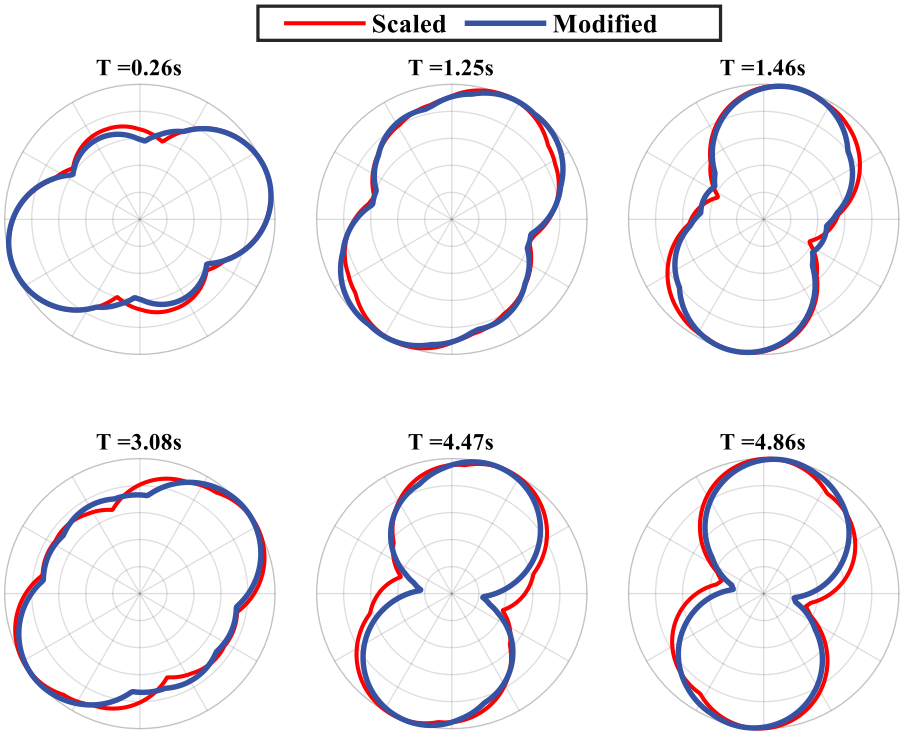
RotD100 response spectrum



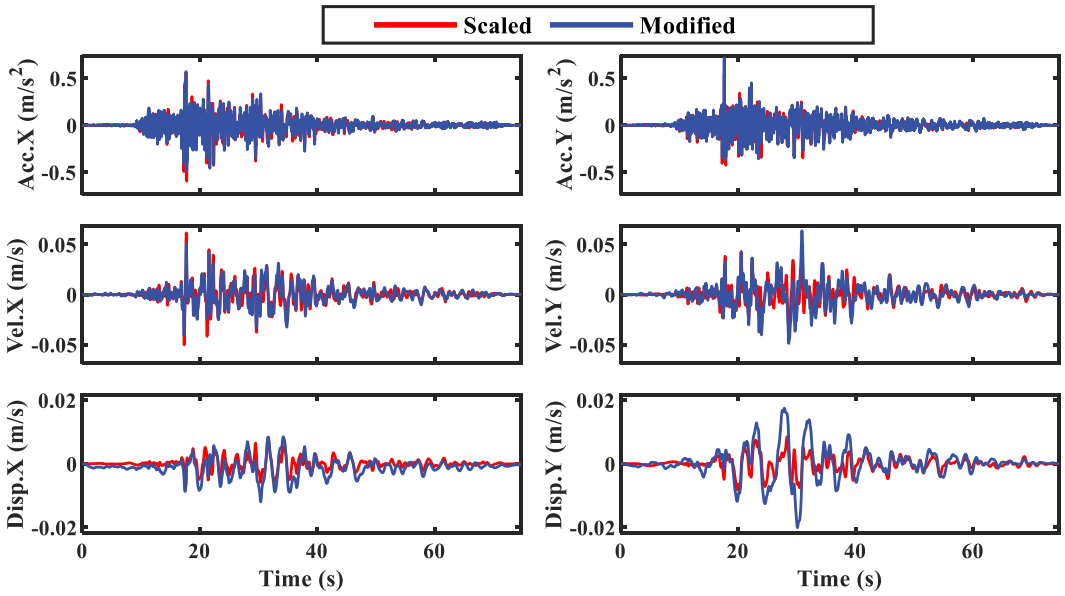
Arias intensity



Radial spectral acceleration pattern (RadSAP)

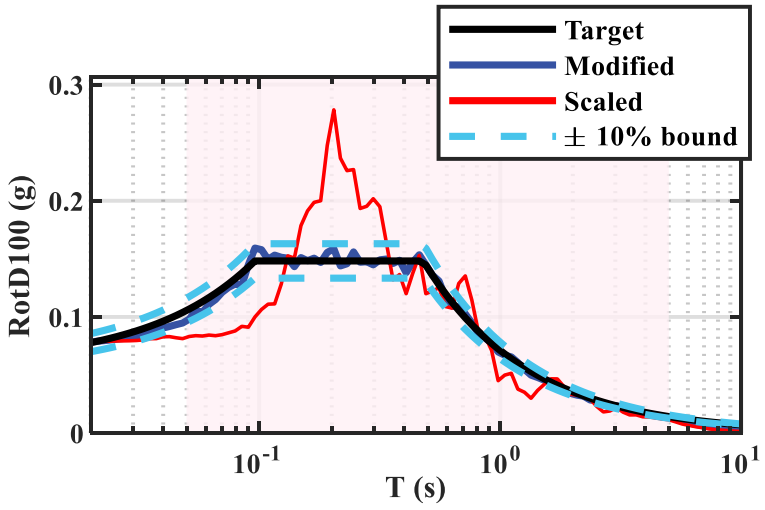


Time history comparison

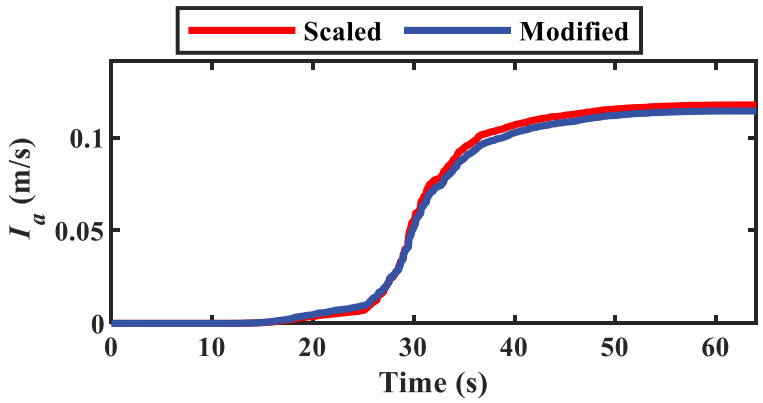


No. 2 RSN # 3225

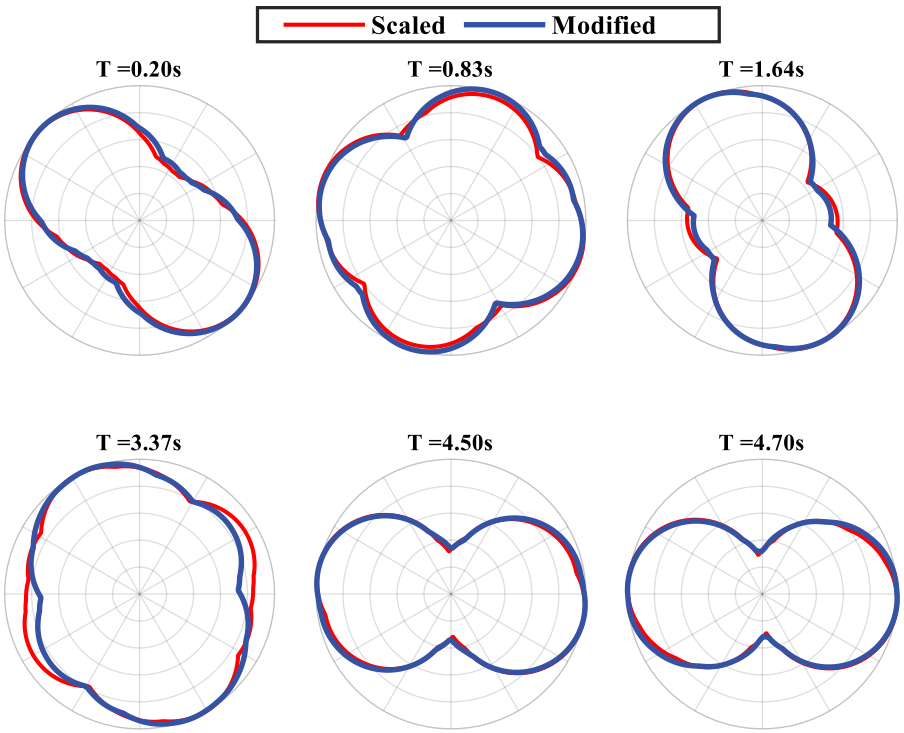
RotD100 response spectrum



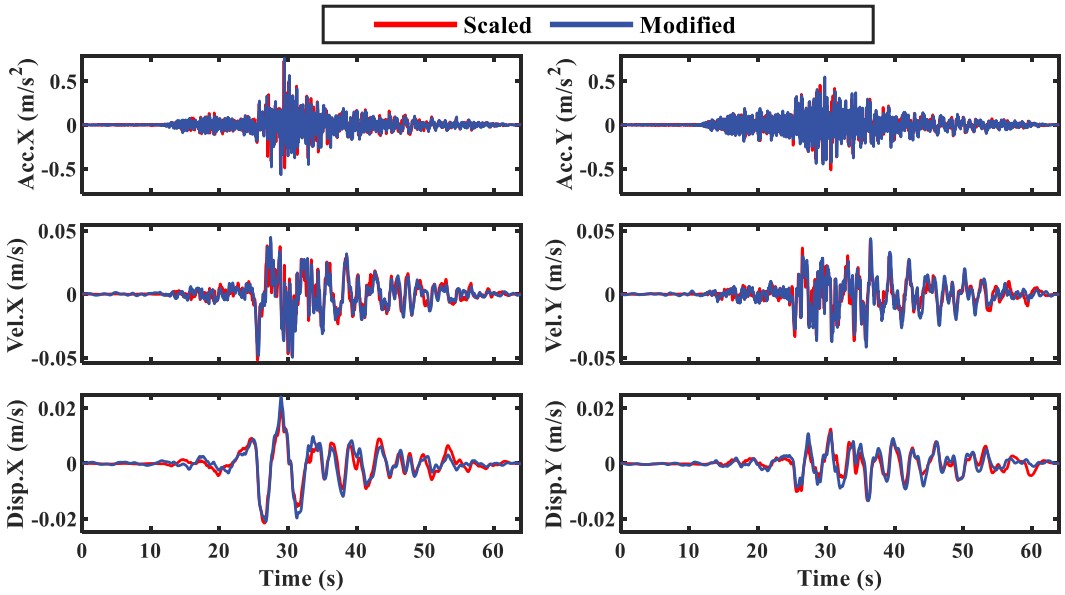
Arias intensity



Radial spectral acceleration pattern (RadSAP)

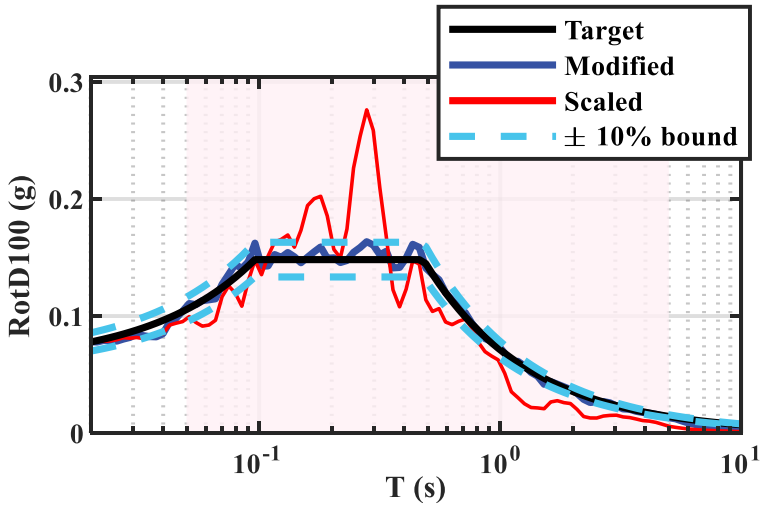


Time history comparison

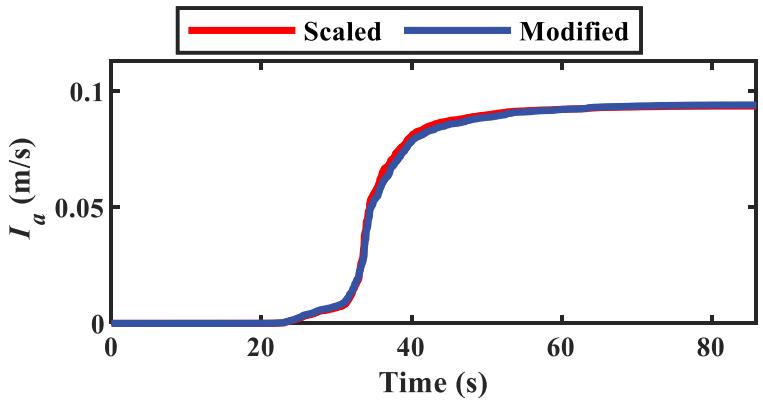


No. 3 RSN # 2954

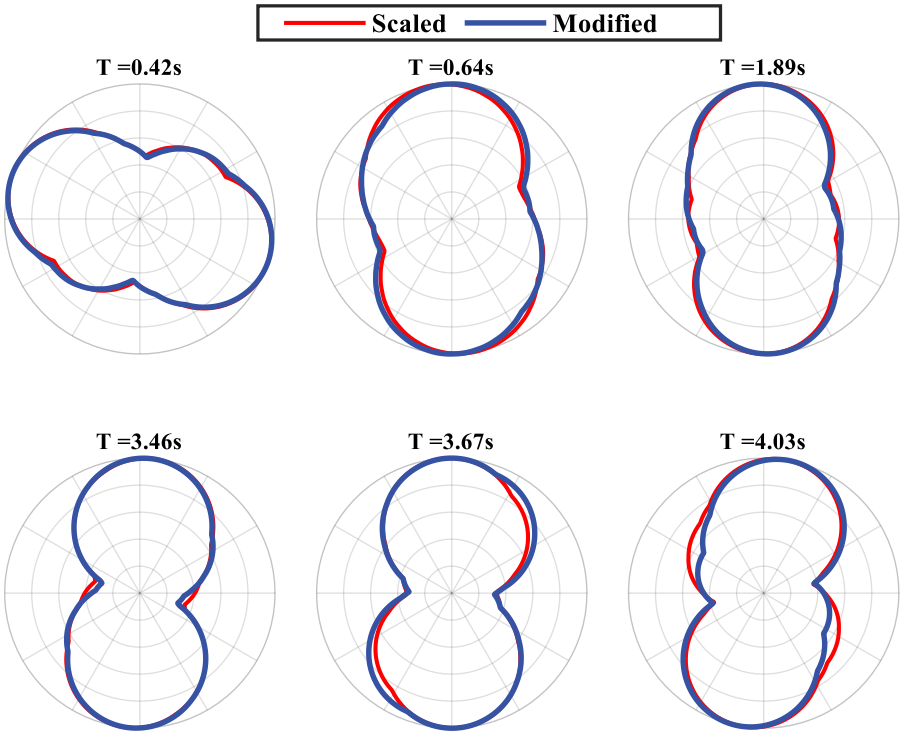
RotD100 response spectrum



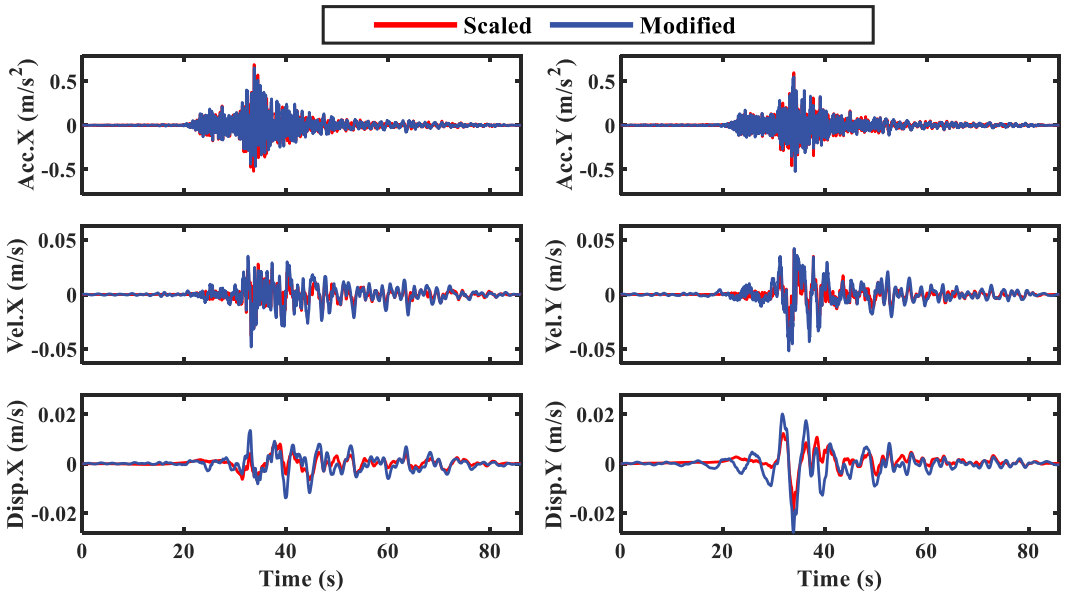
Arias intensity



Radial spectral acceleration pattern (RadSAP)

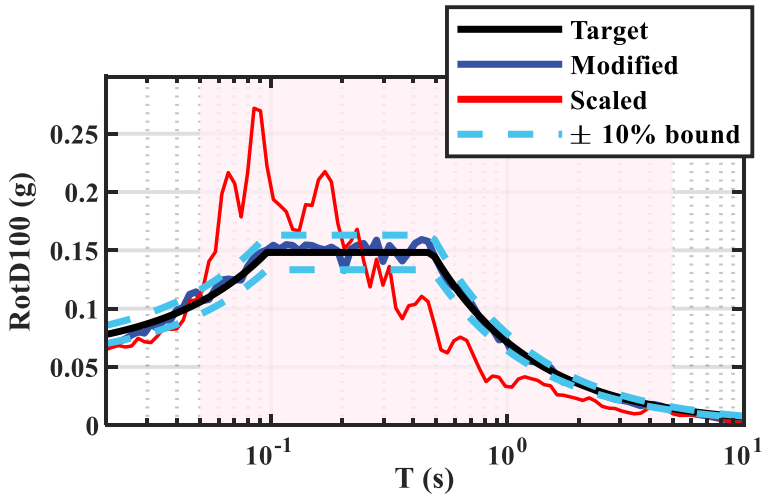


Time history comparison

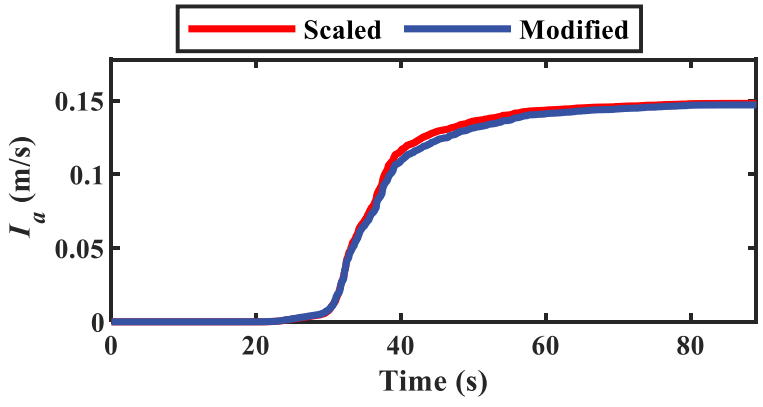


No. 4 RSN # 2944

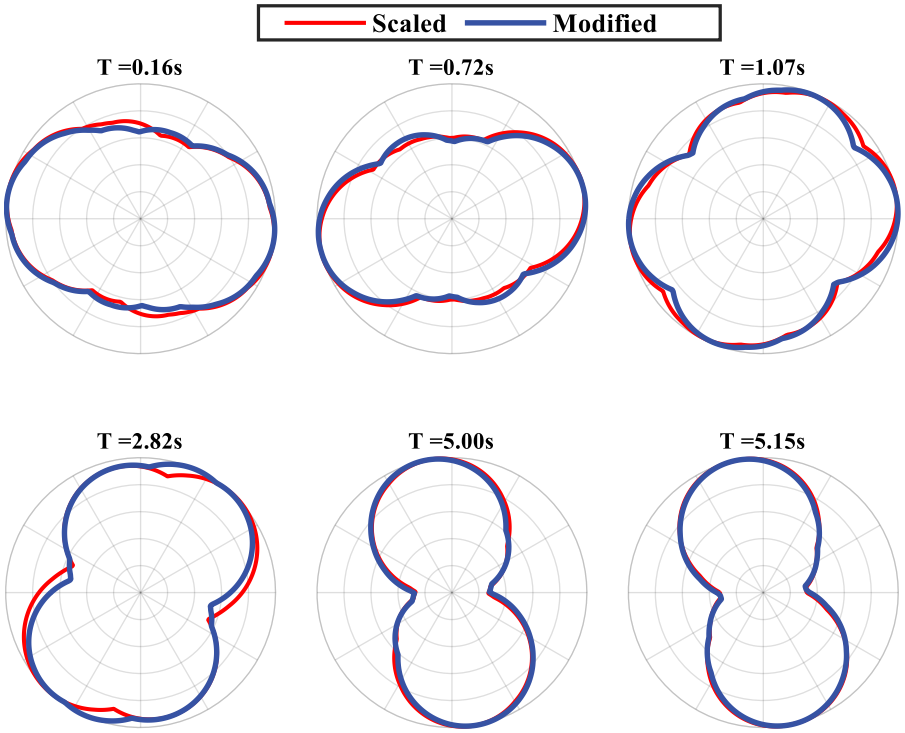
RotD100 response spectrum



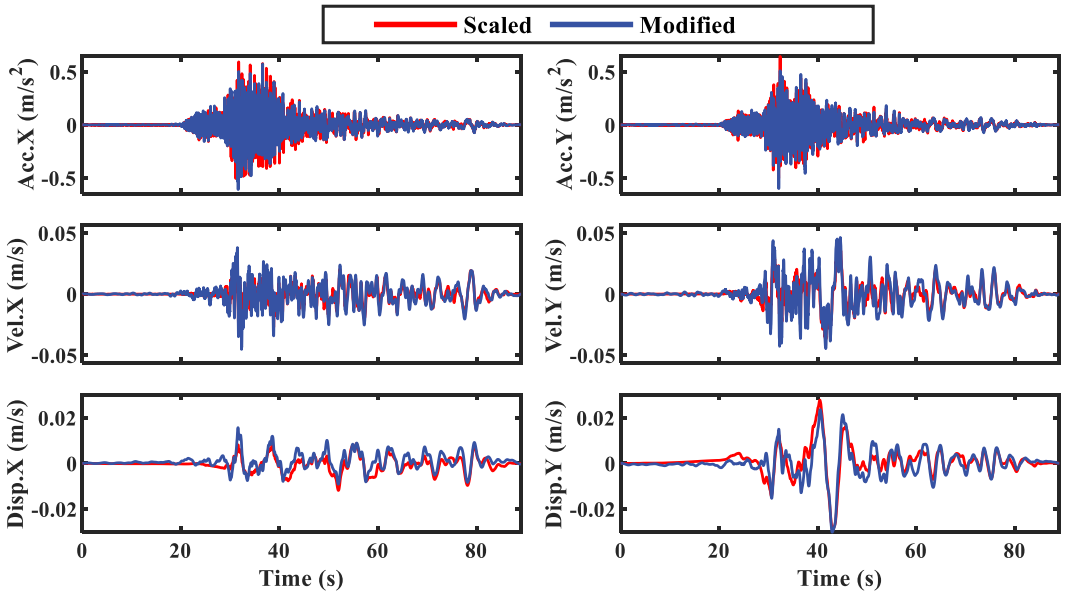
Arias intensity



Radial spectral acceleration pattern (RadSAP)

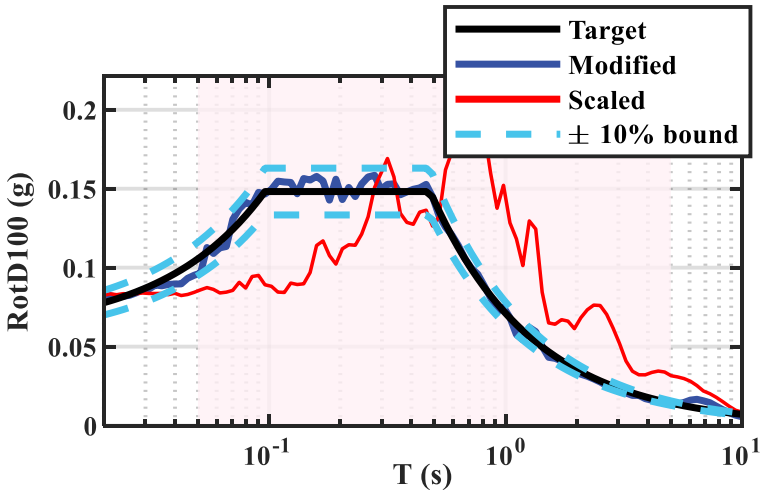


Time history comparison

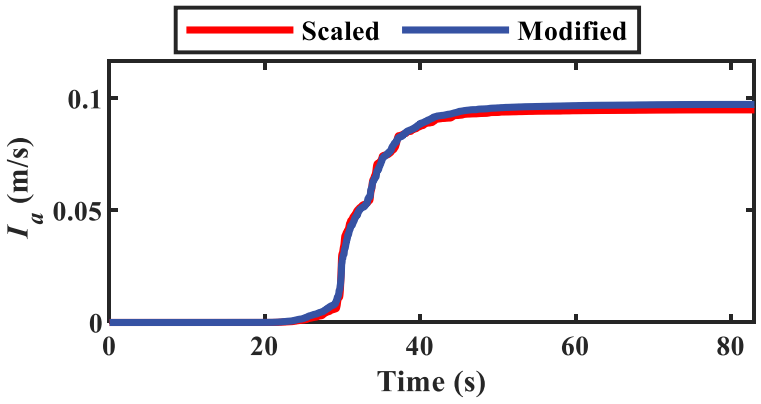


No. 5 RSN # 2888

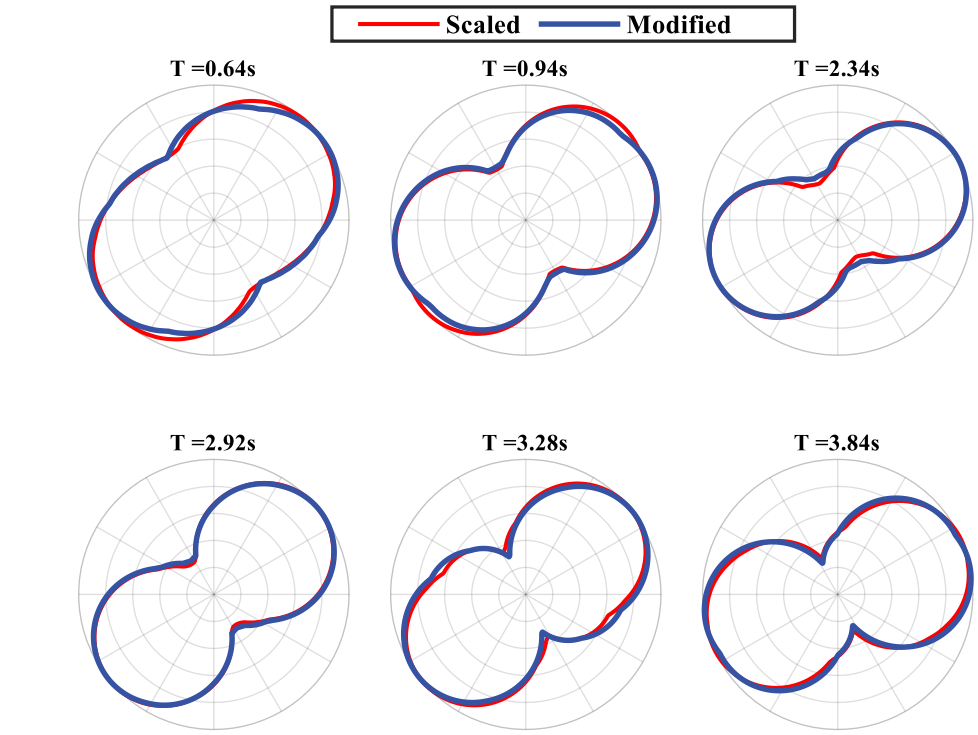
RotD100 response spectrum



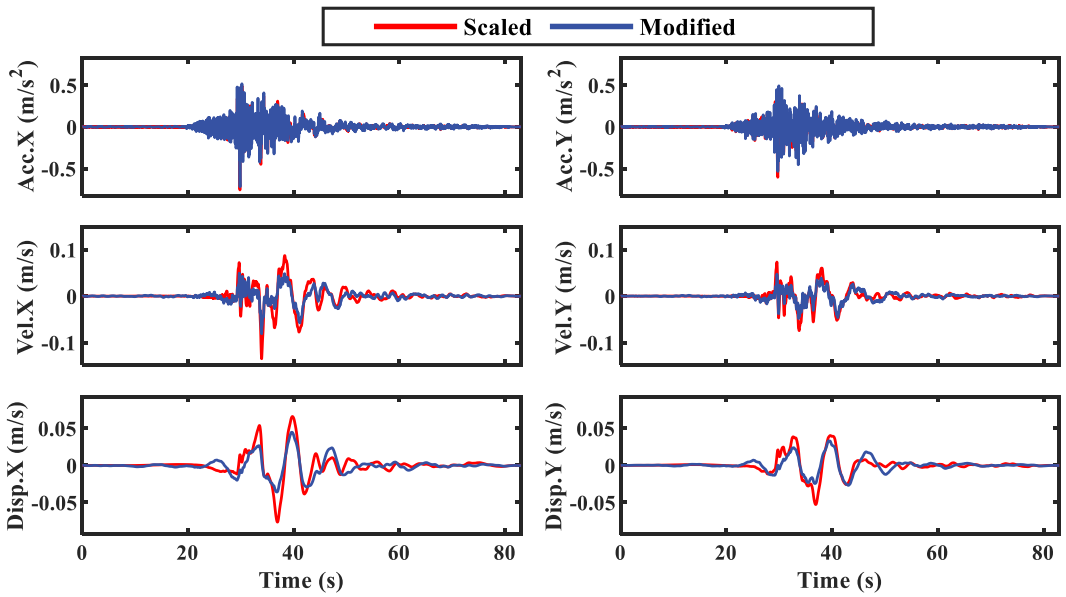
Arias intensity



Radial spectral acceleration pattern (RadSAP)

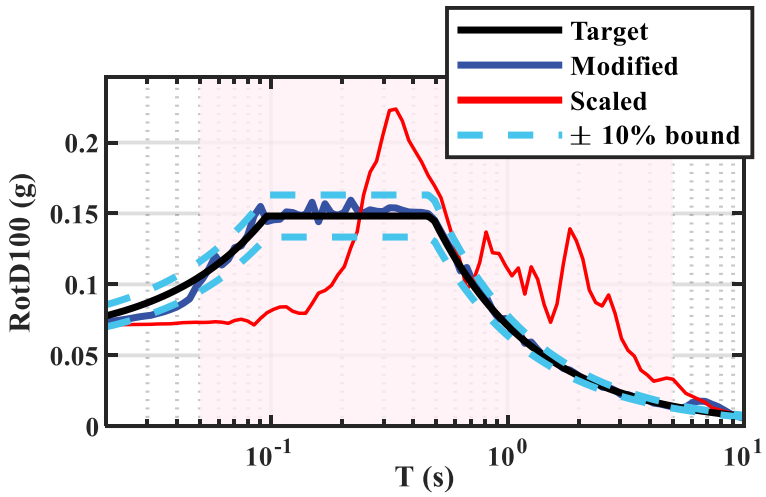


Time history comparison

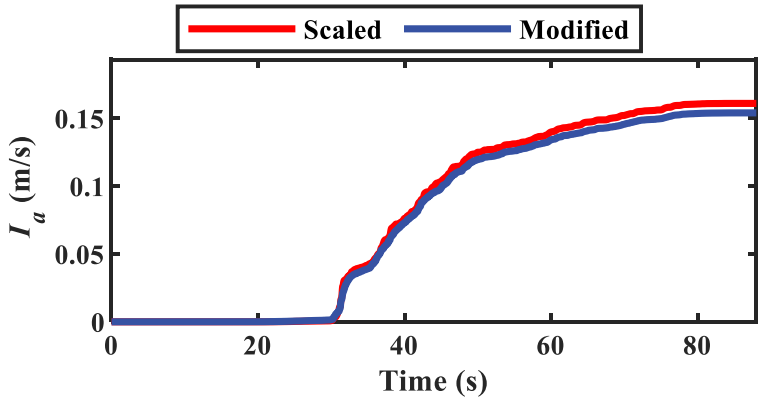


No. 6 RSN # 2476

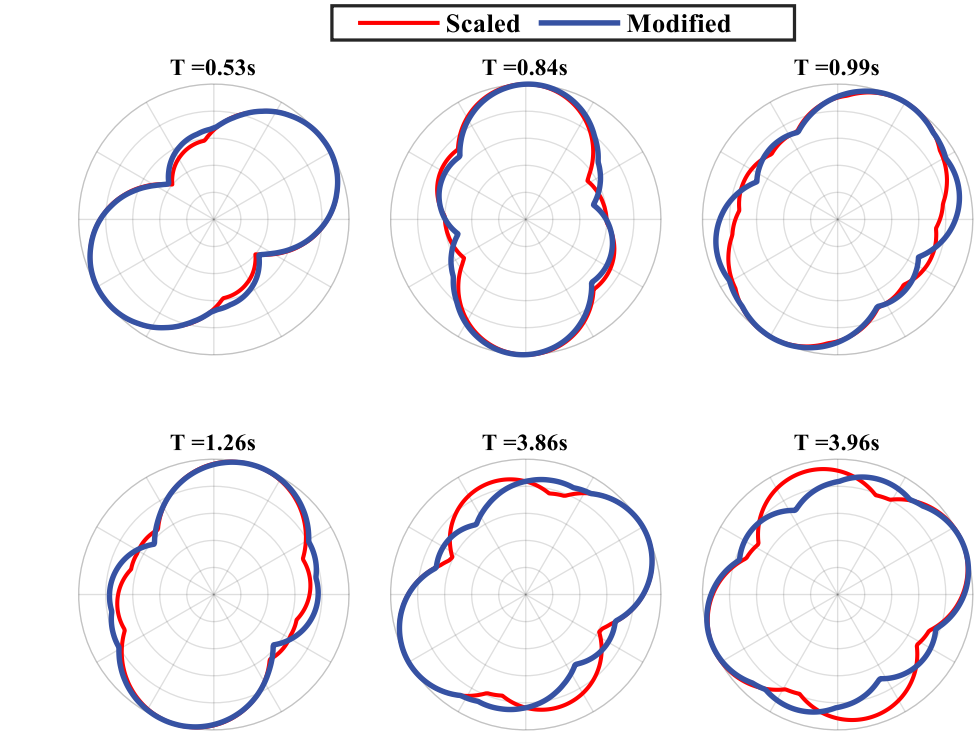
RotD100 response spectrum



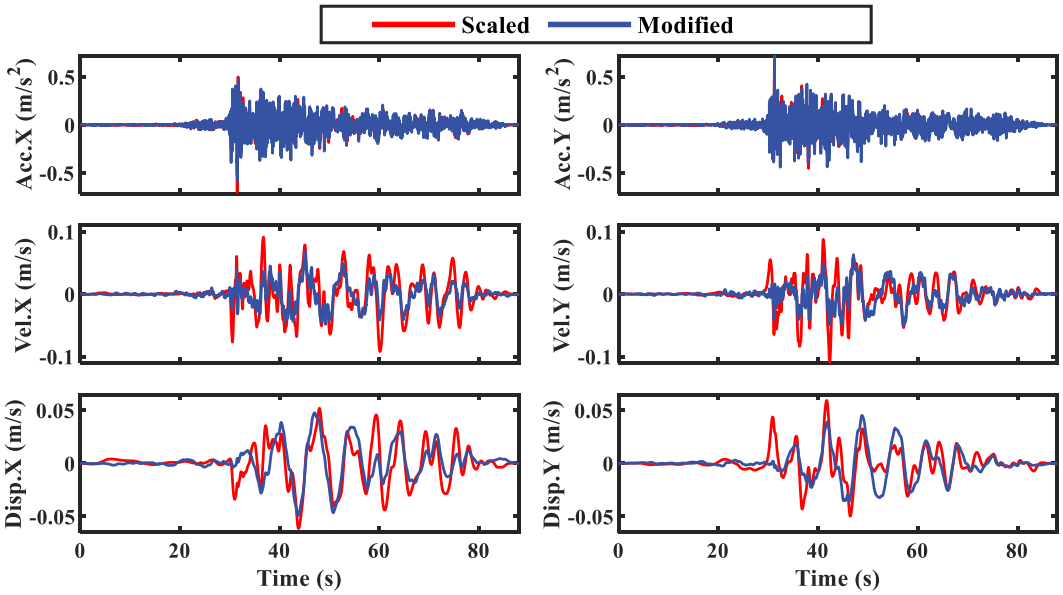
Arias intensity



Radial spectral acceleration pattern (RadSAP)

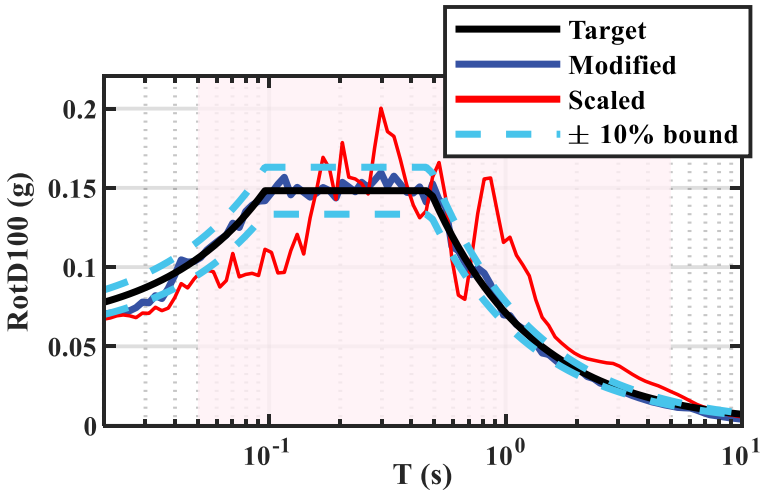


Time history comparison

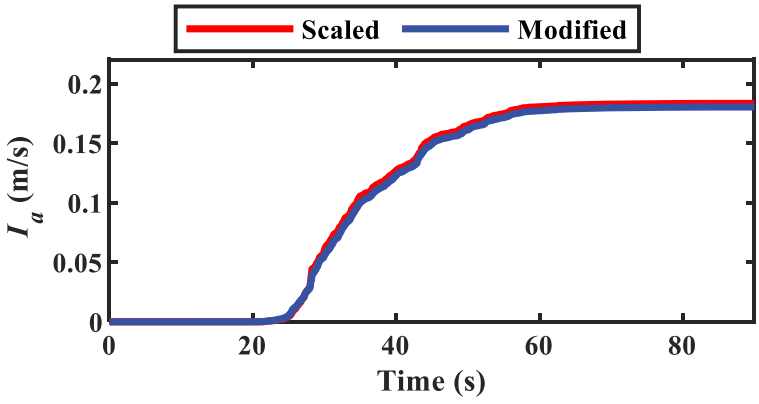


No. 7 RSN # 1511

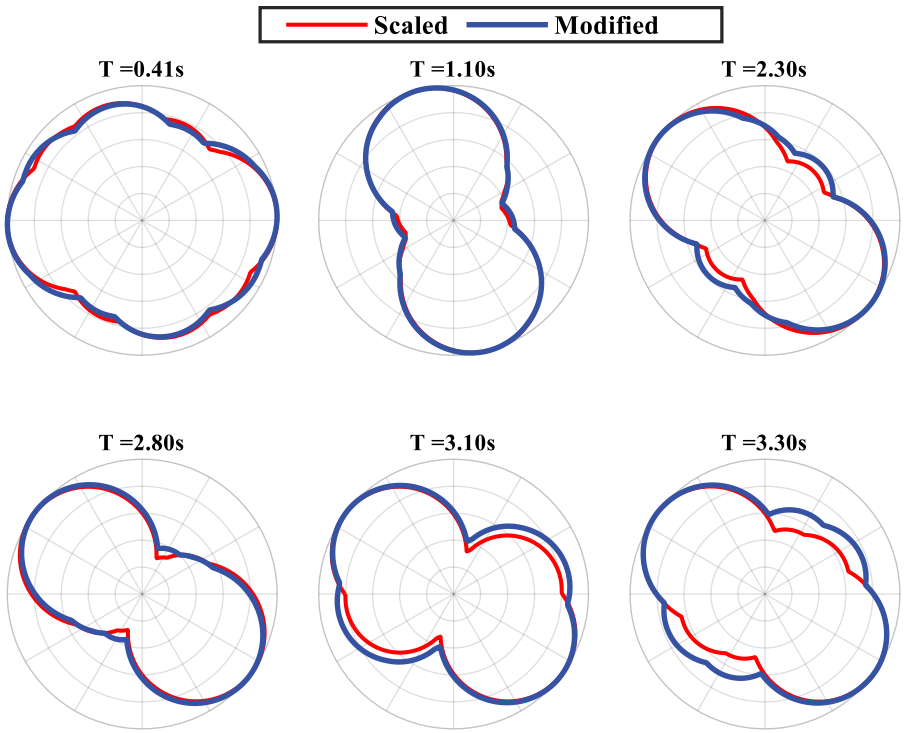
RotD100 response spectrum



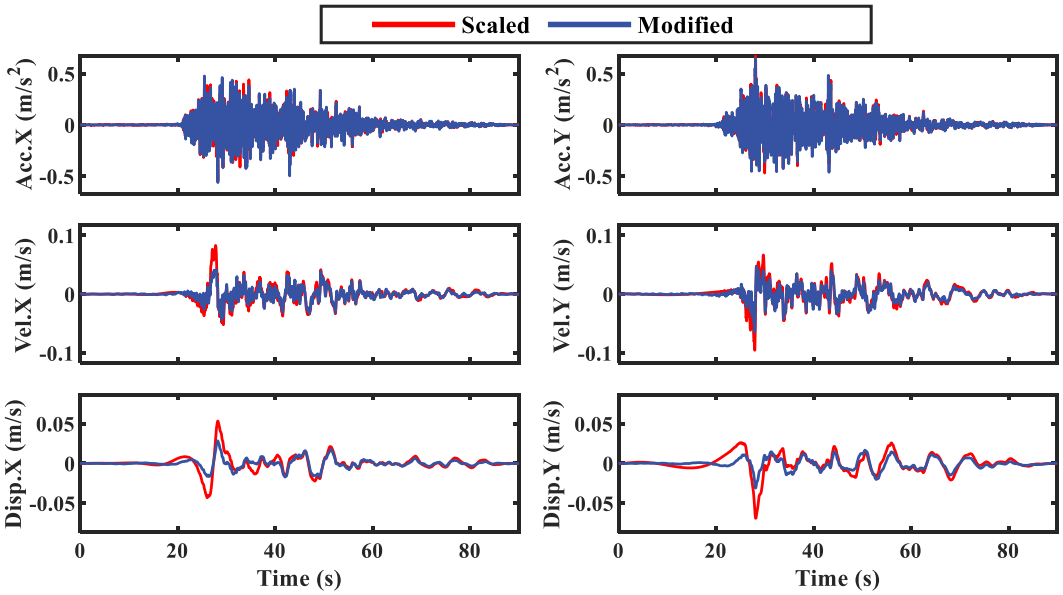
Arias intensity



Radial spectral acceleration pattern (RadSAP)

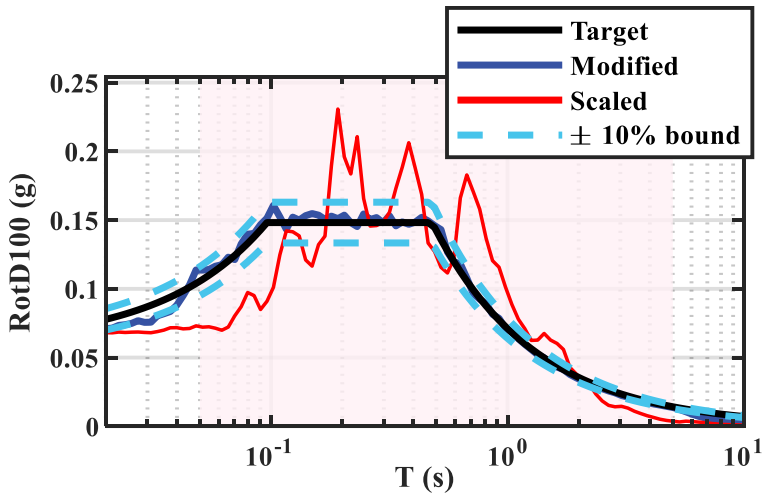


Time history comparison

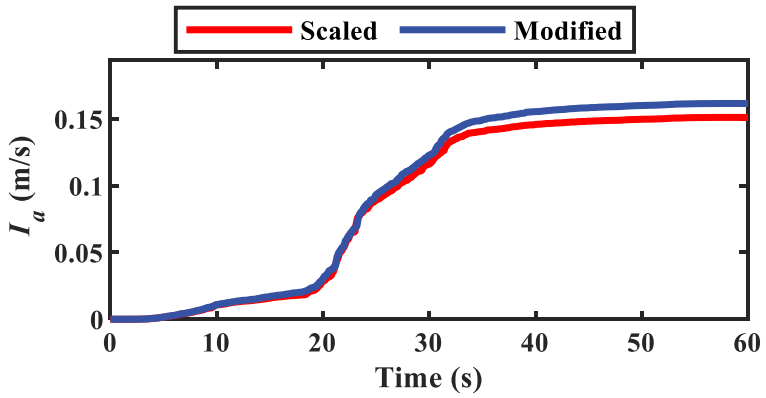


No. 8 RSN # 912

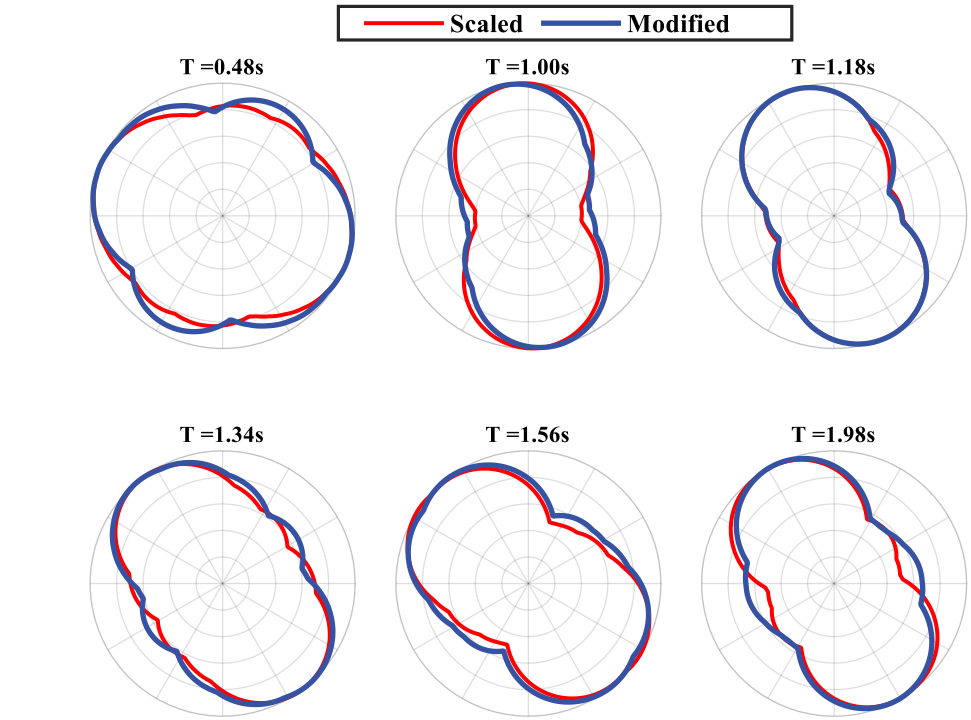
RotD100 response spectrum



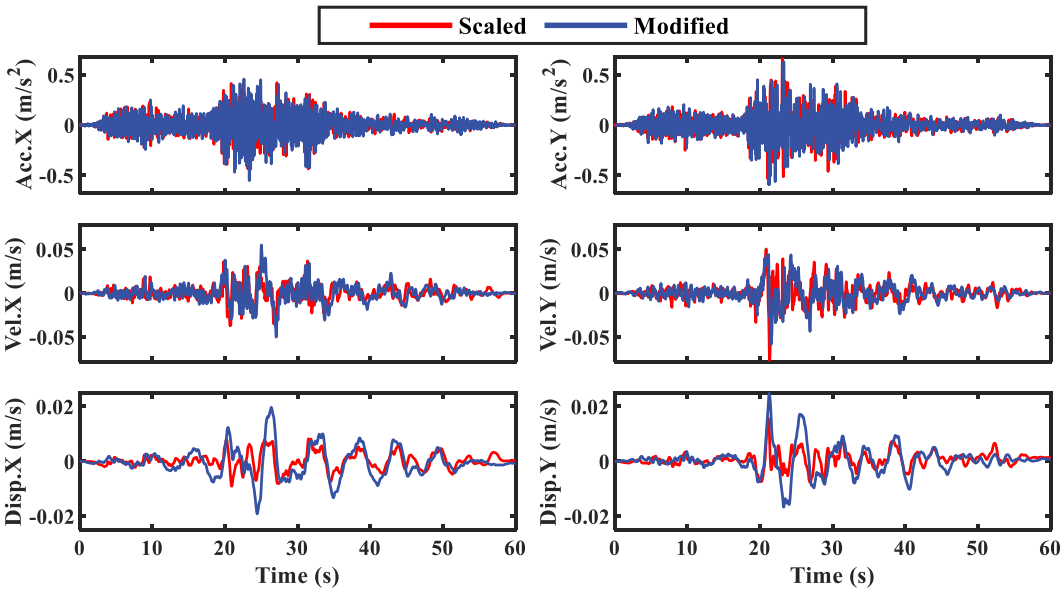
Arias intensity



Radial spectral acceleration pattern (RadSAP)

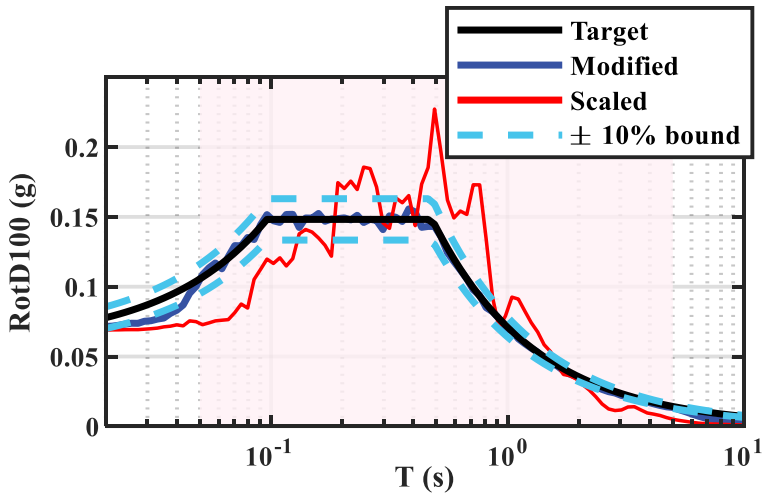


Time history comparison

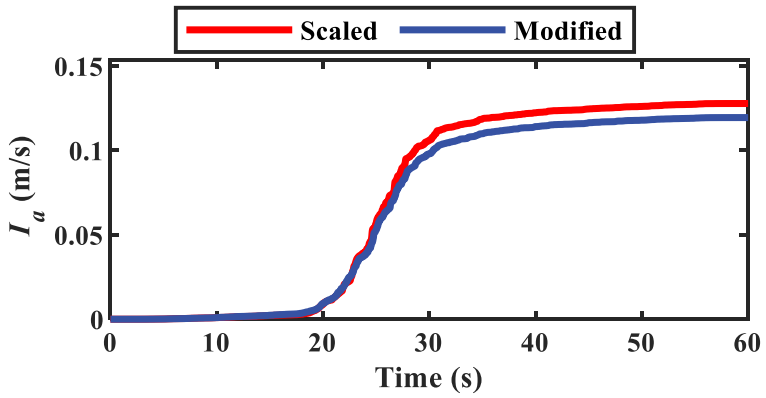


No. 9 RSN # 929

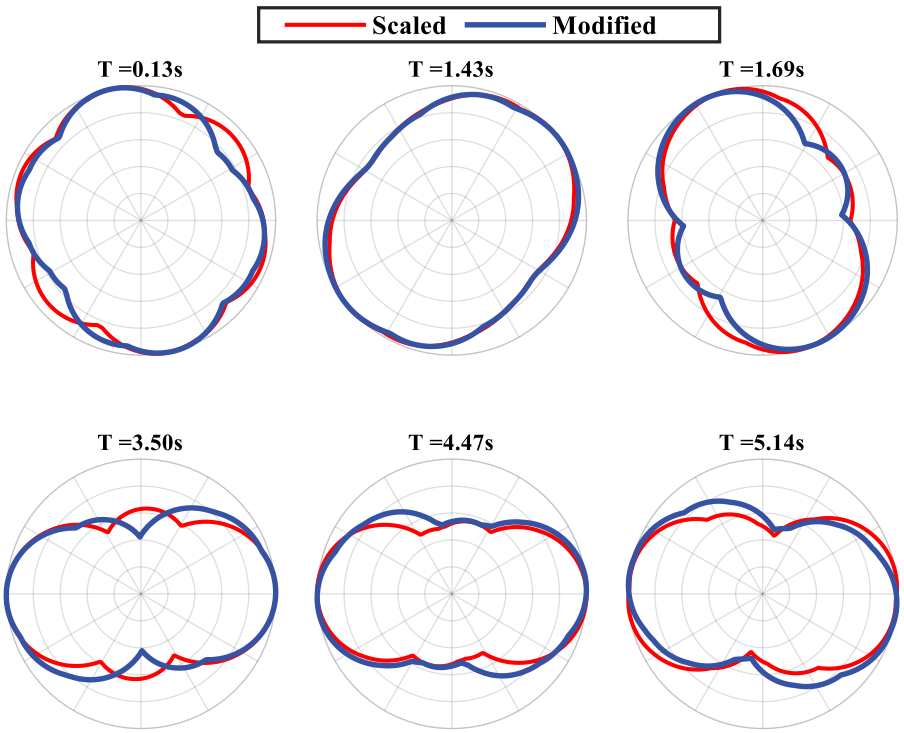
RotD100 response spectrum



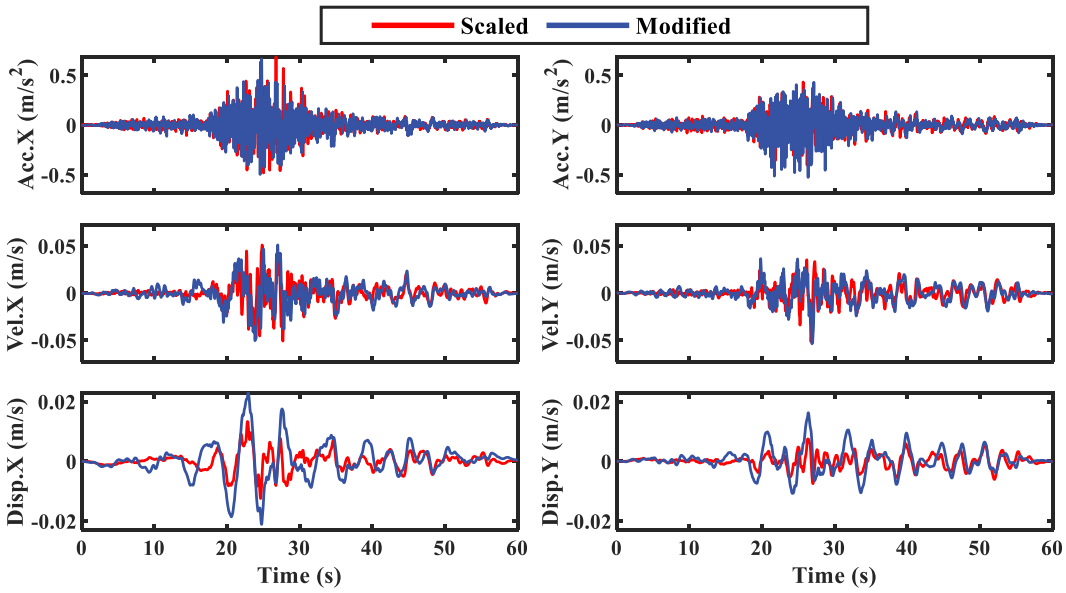
Arias intensity



Radial spectral acceleration pattern (RadSAP)

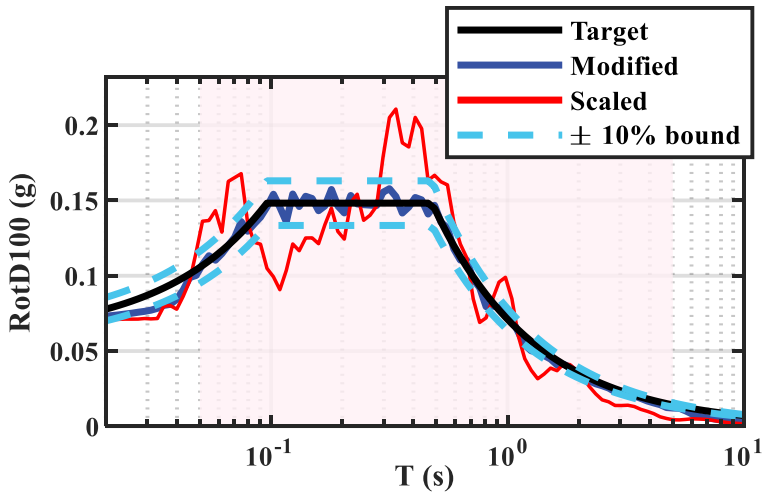


Time history comparison

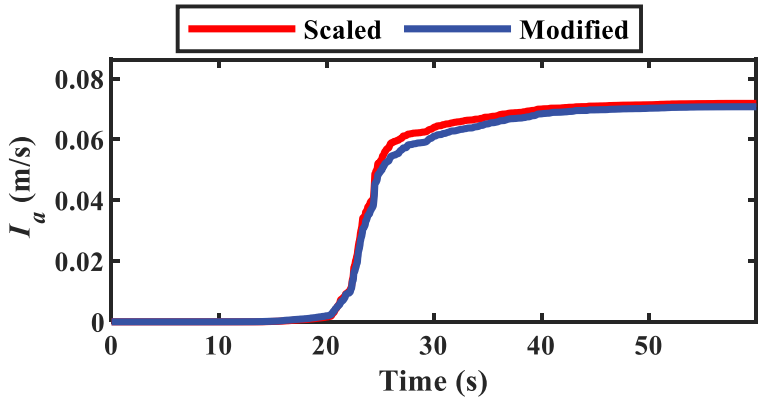


No. 10 RSN # 4858

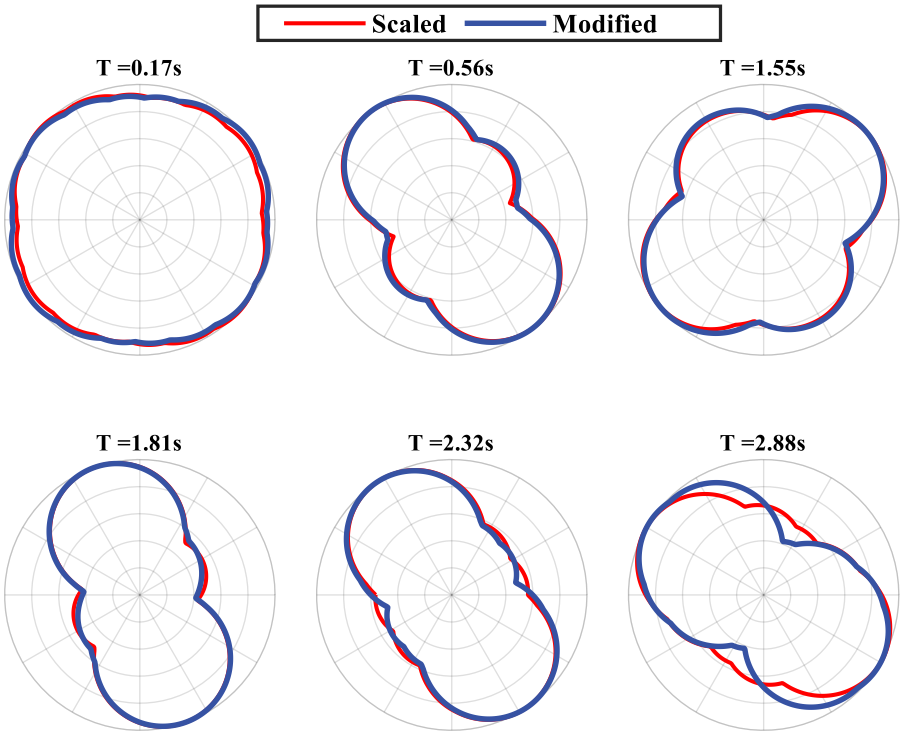
RotD100 response spectrum



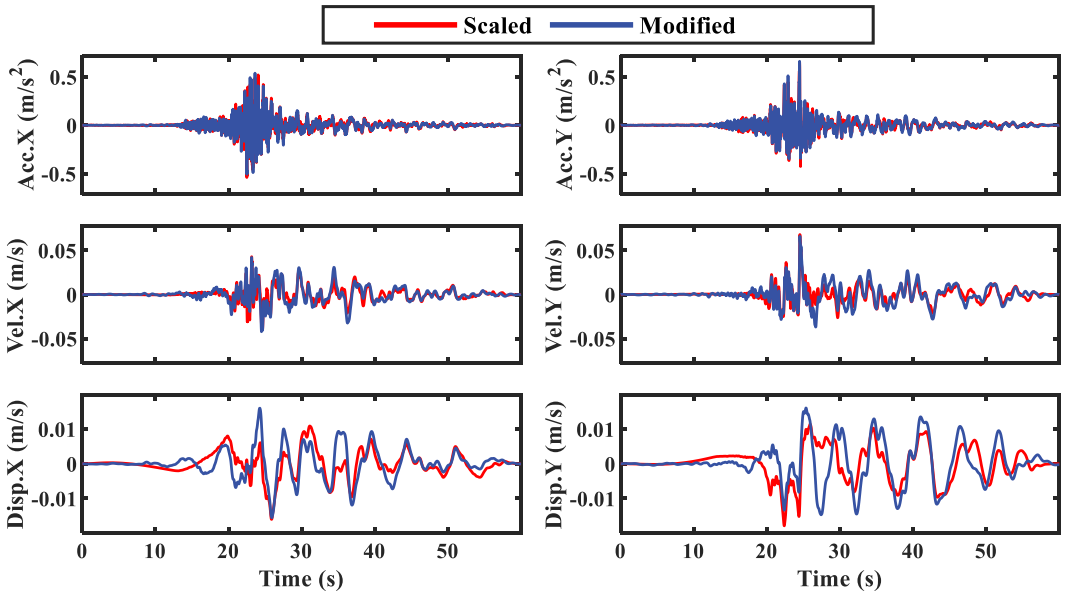
Arias intensity



Radial spectral acceleration pattern (RadSAP)

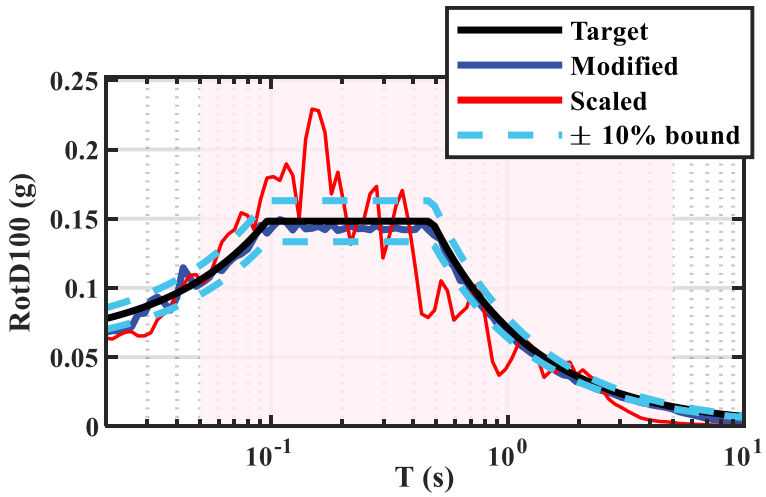


Time history comparison

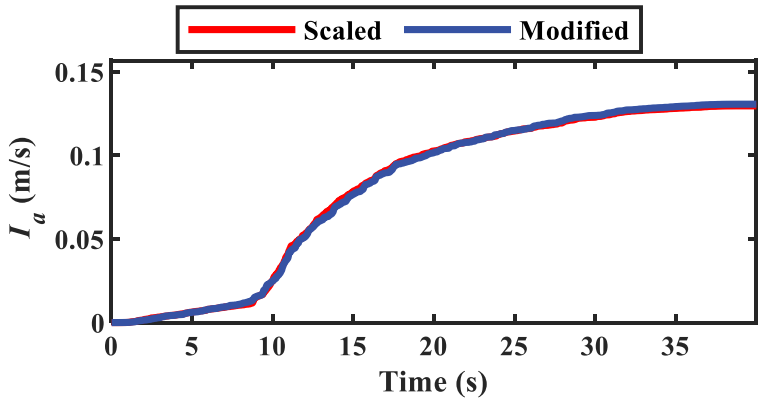


No. 11 RSN # 532

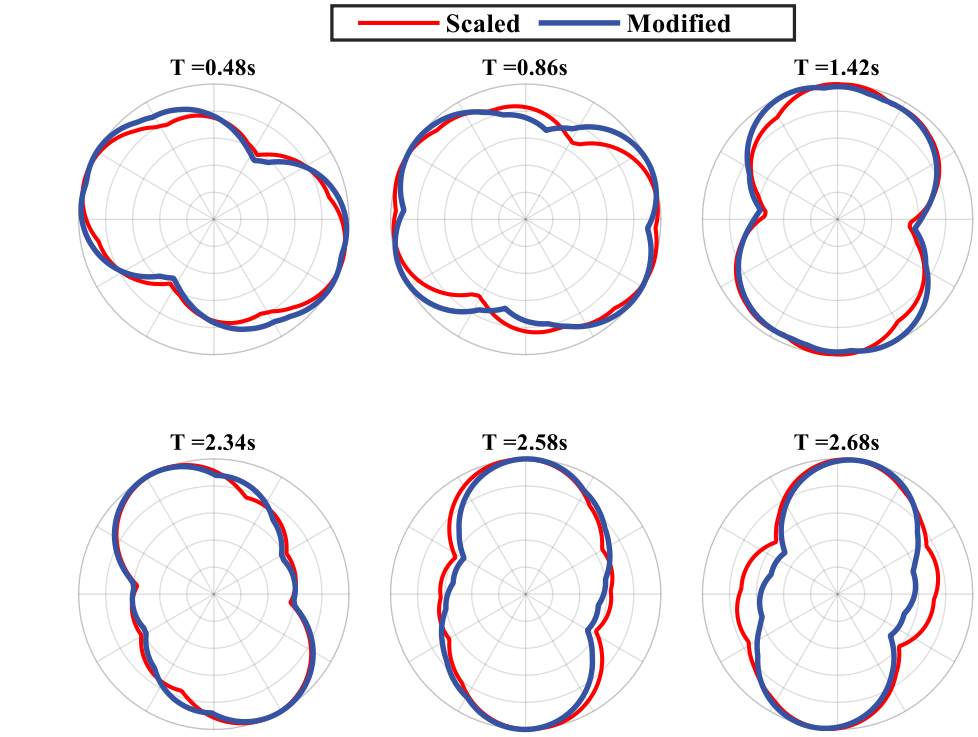
RotD100 response spectrum



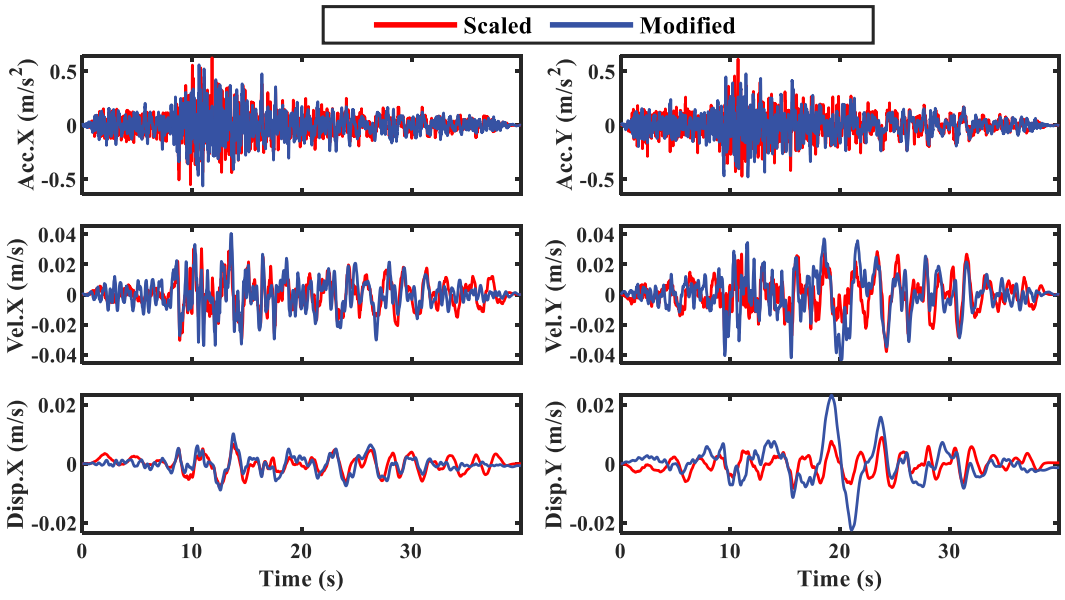
Arias intensity



Radial spectral acceleration pattern (RadSAP)

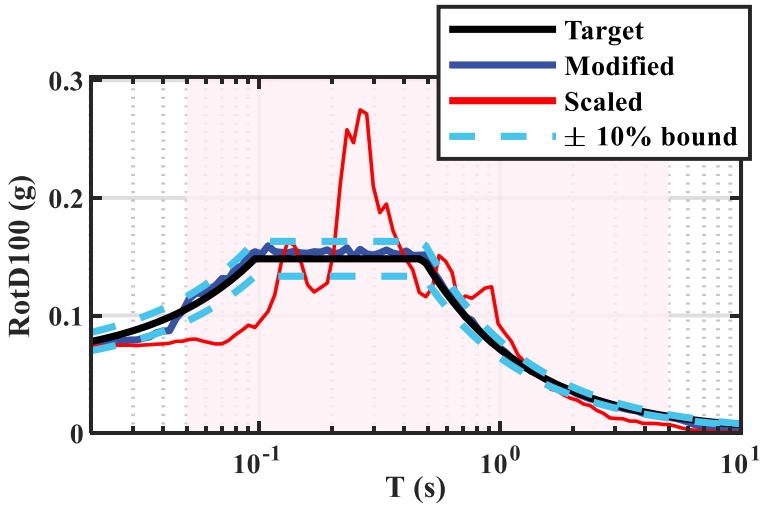


Time history comparison

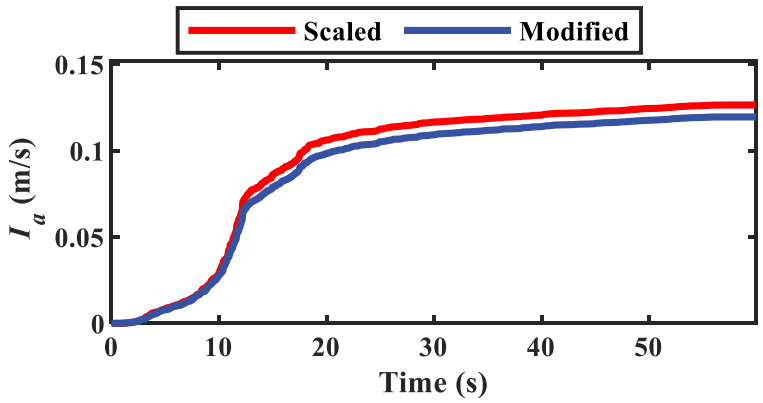


No. 12 RSN # 446

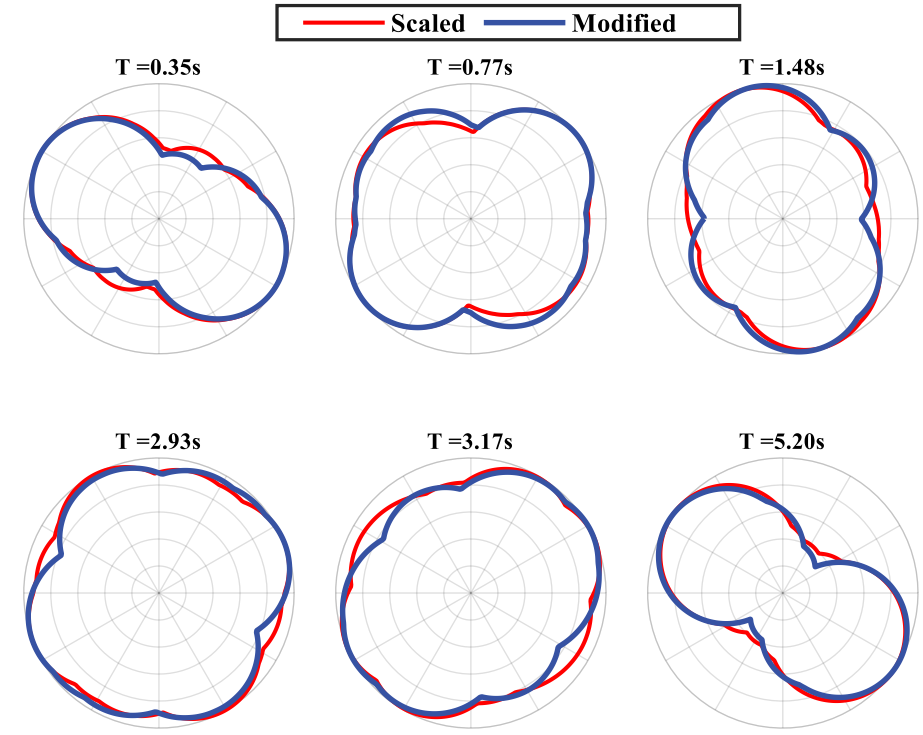
RotD100 response spectrum



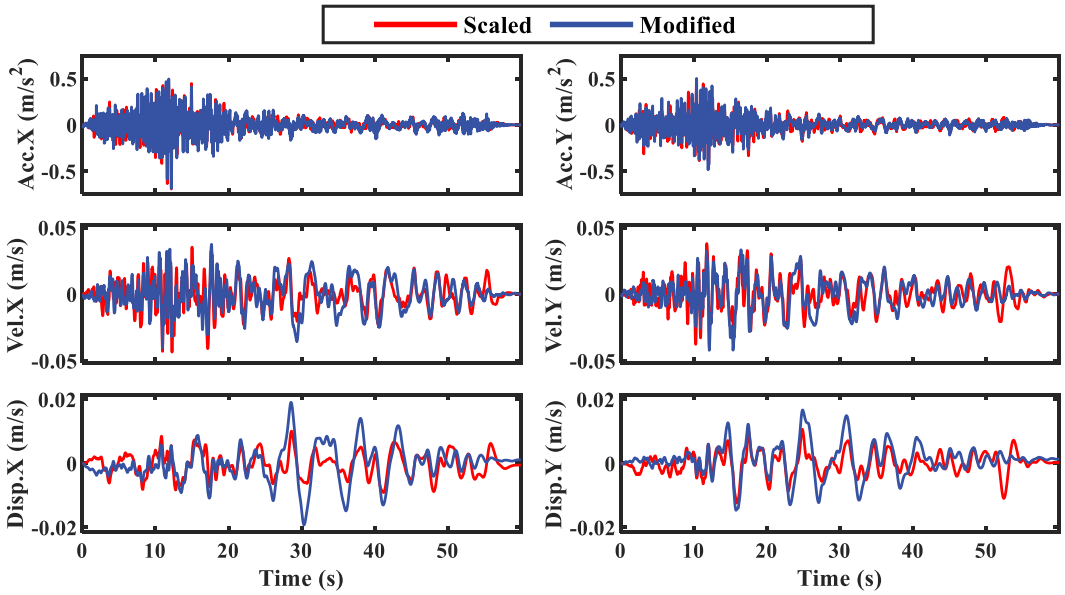
Arias intensity



Radial spectral acceleration pattern (RadSAP)

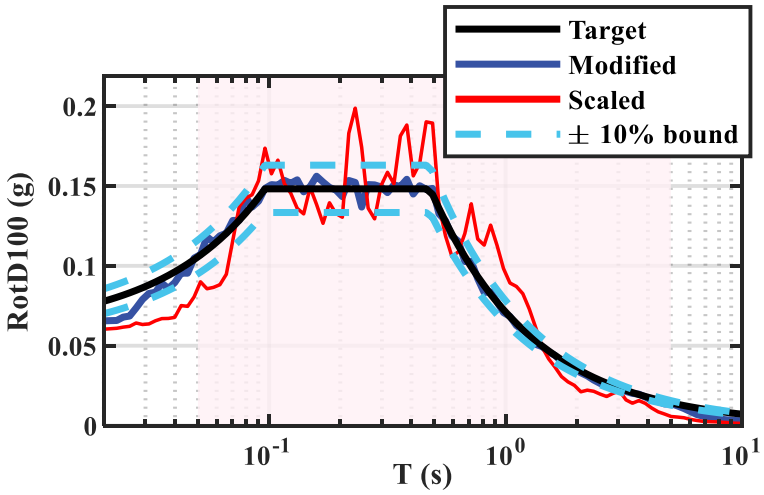


Time history comparison

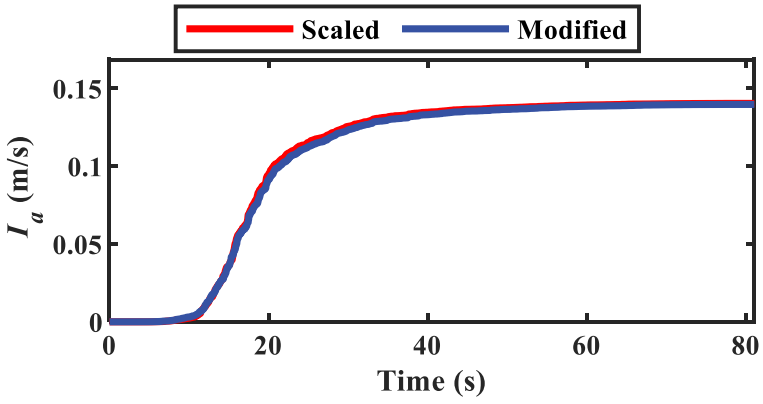


No. 13 RSN # 4485

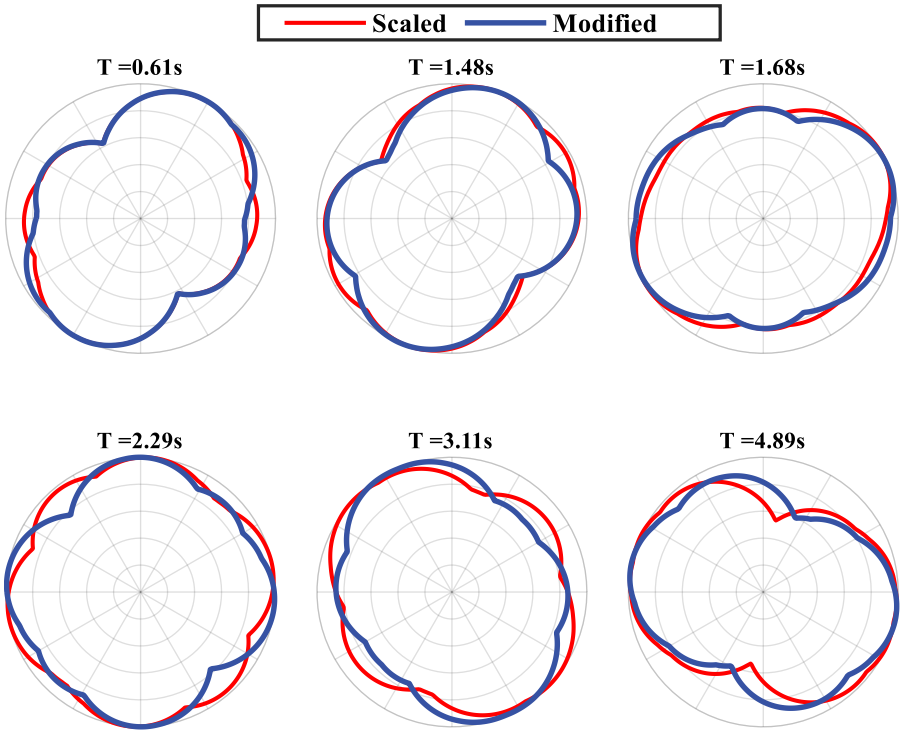
RotD100 response spectrum



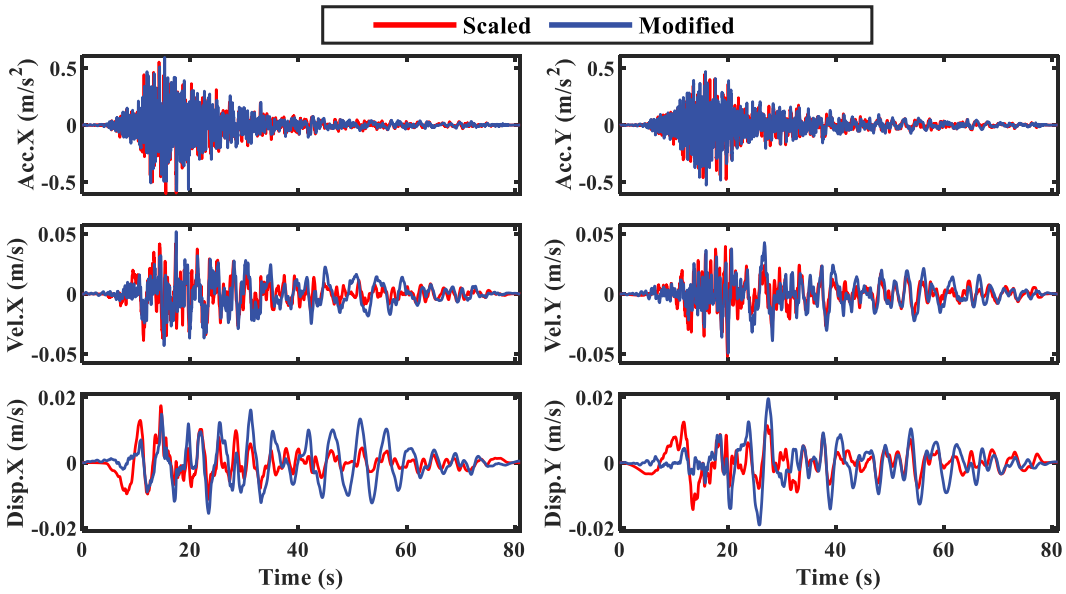
Arias intensity



Radial spectral acceleration pattern (RadSAP)

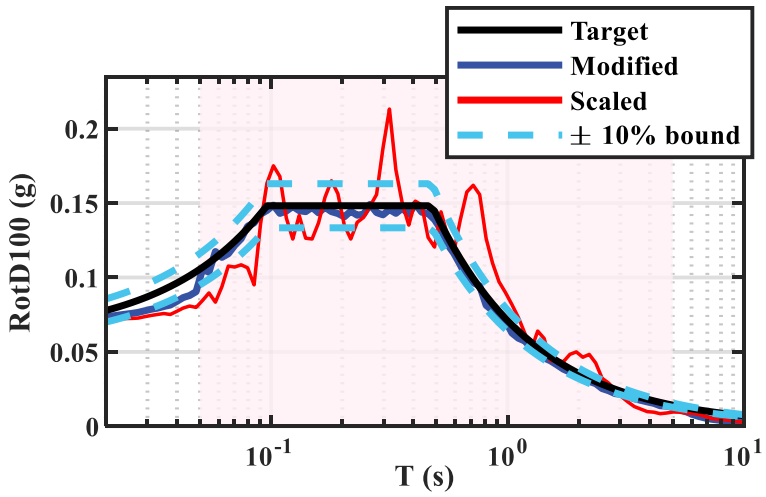


Time history comparison

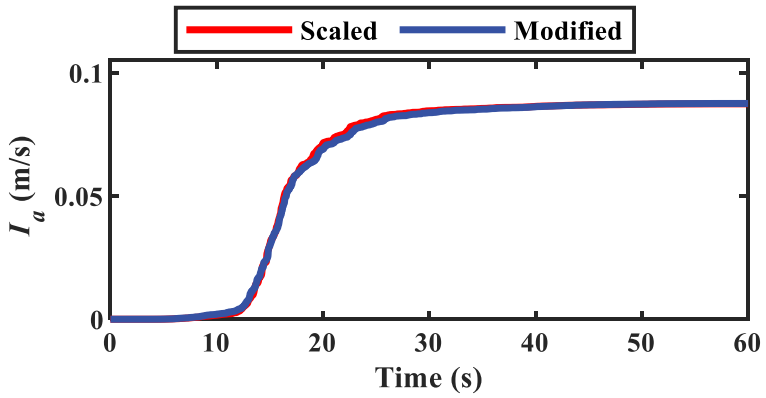


No. 14 RSN # 4503

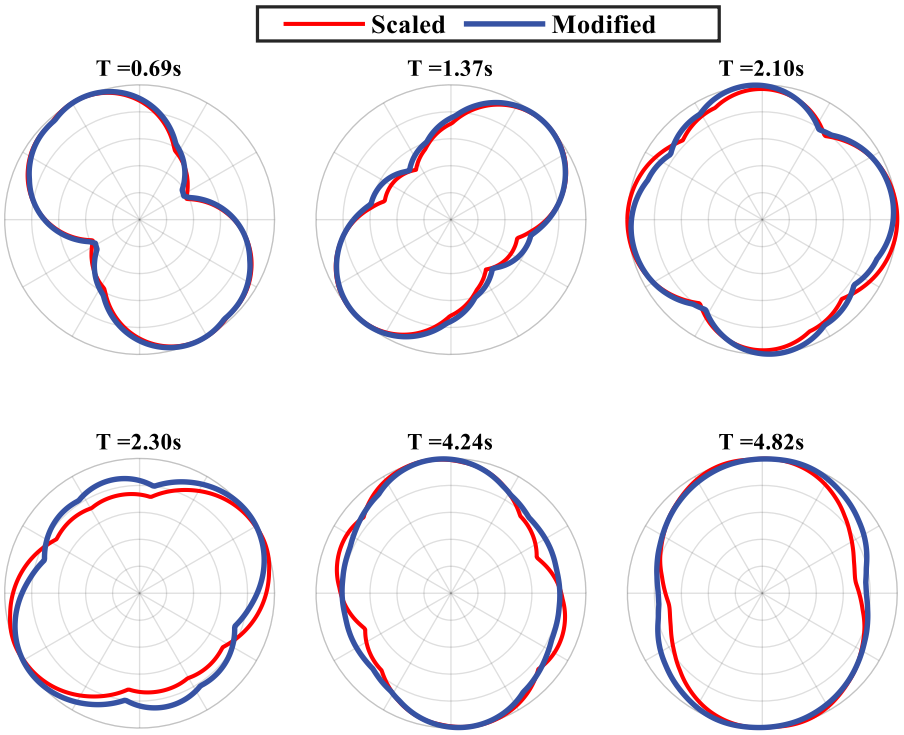
RotD100 response spectrum



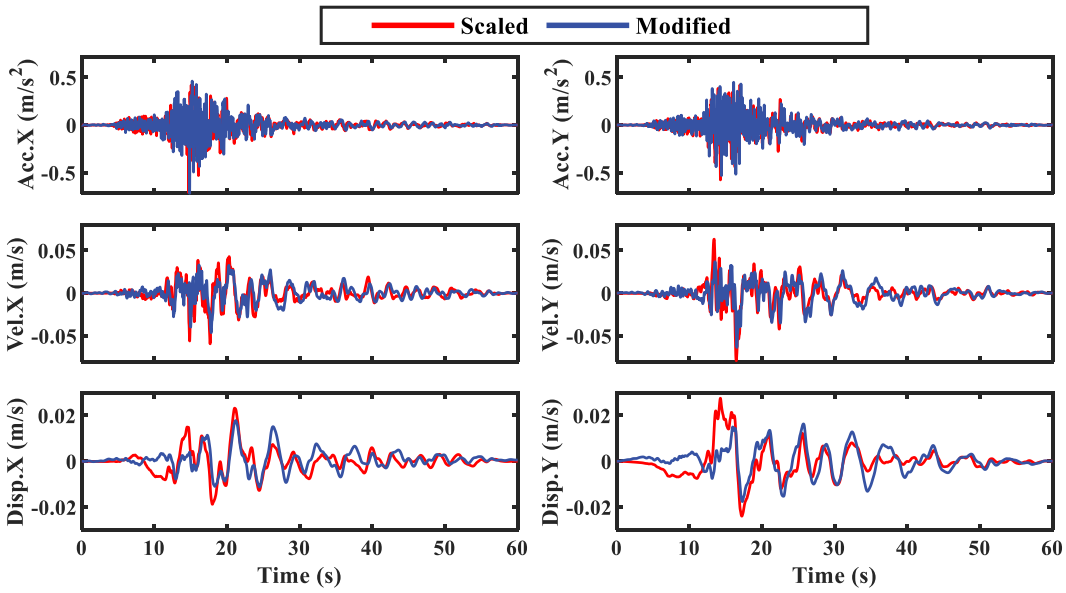
Arias intensity



Radial spectral acceleration pattern (RadSAP)

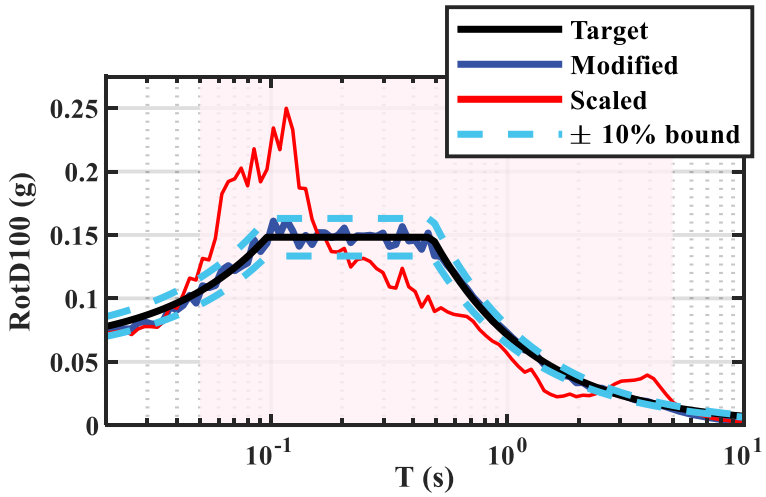


Time history comparison

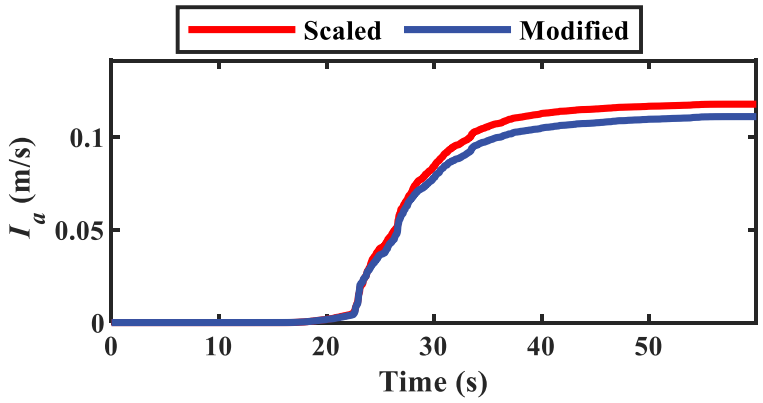


No. 15 RSN # 5775

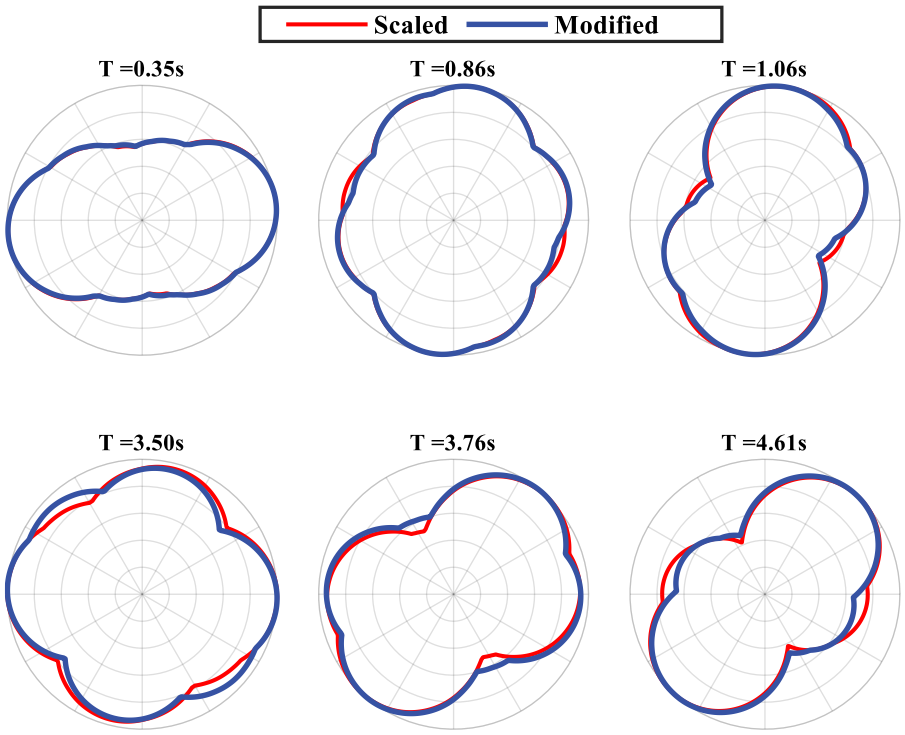
RotD100 response spectrum



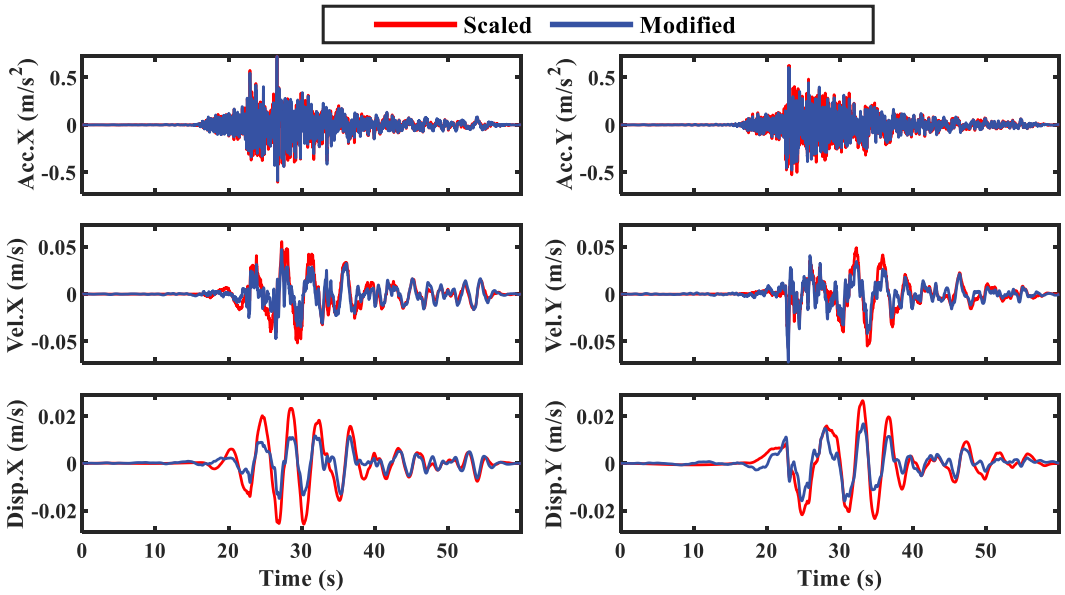
Arias intensity



Radial spectral acceleration pattern (RadSAP)

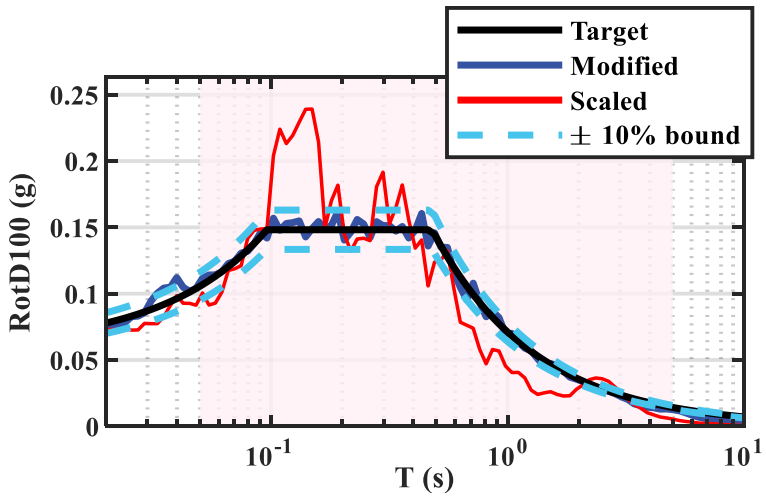


Time history comparison

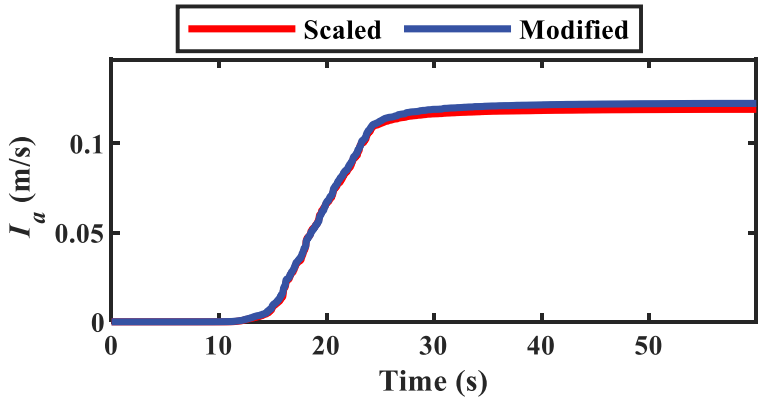


No. 16 RSN # 5809

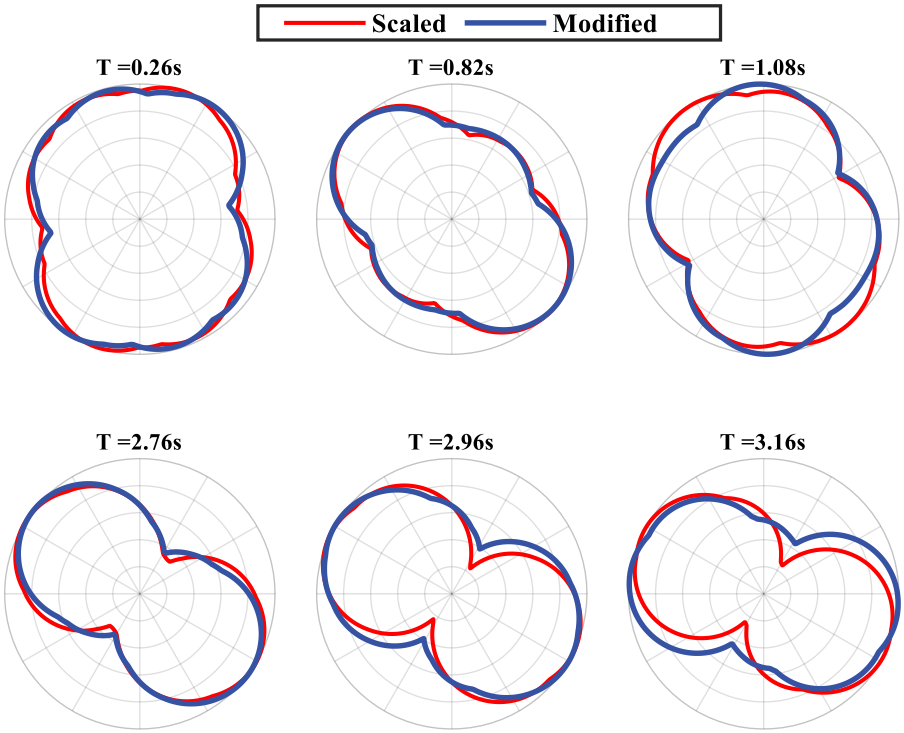
RotD100 response spectrum



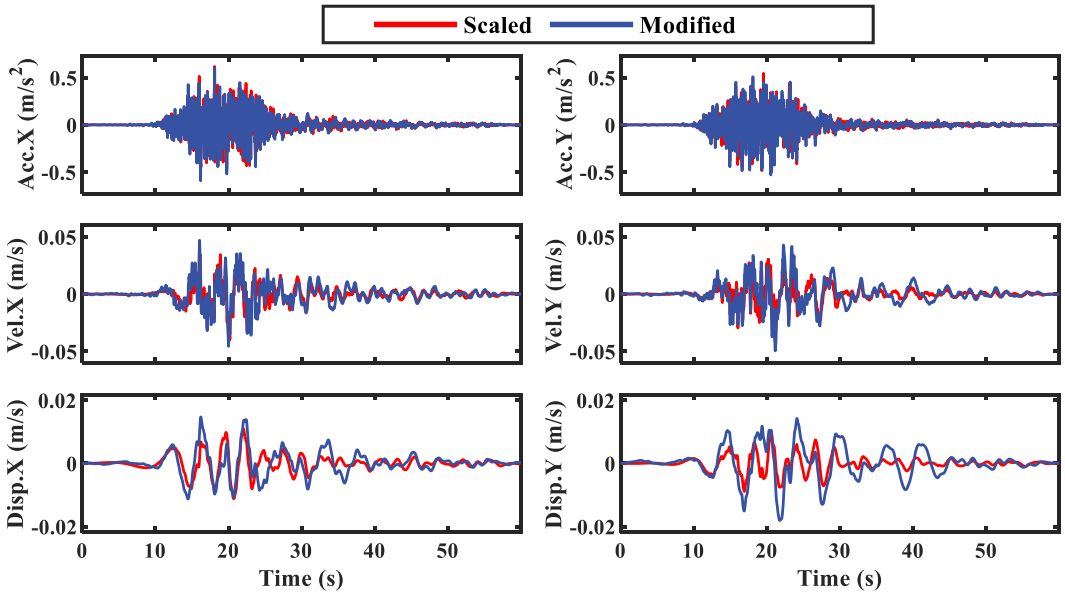
Arias intensity



Radial spectral acceleration pattern (RadSAP)

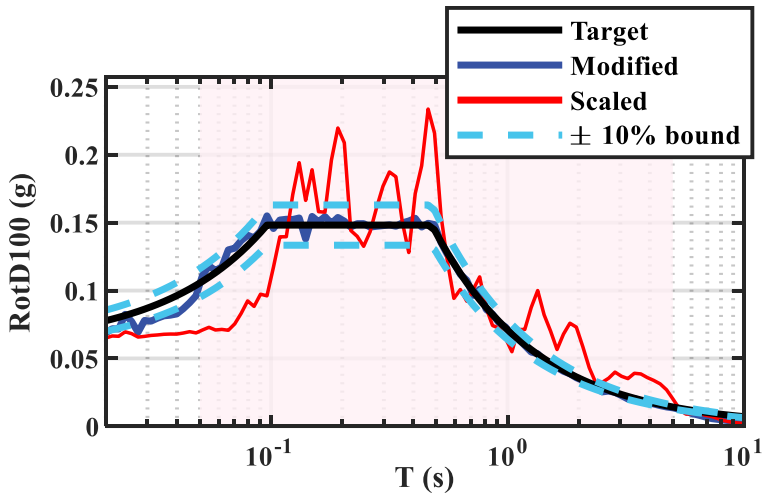


Time history comparison

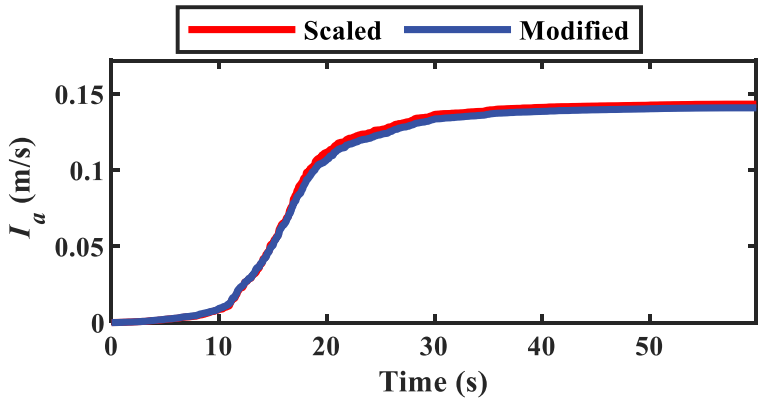


No. 17 RSN # 1768

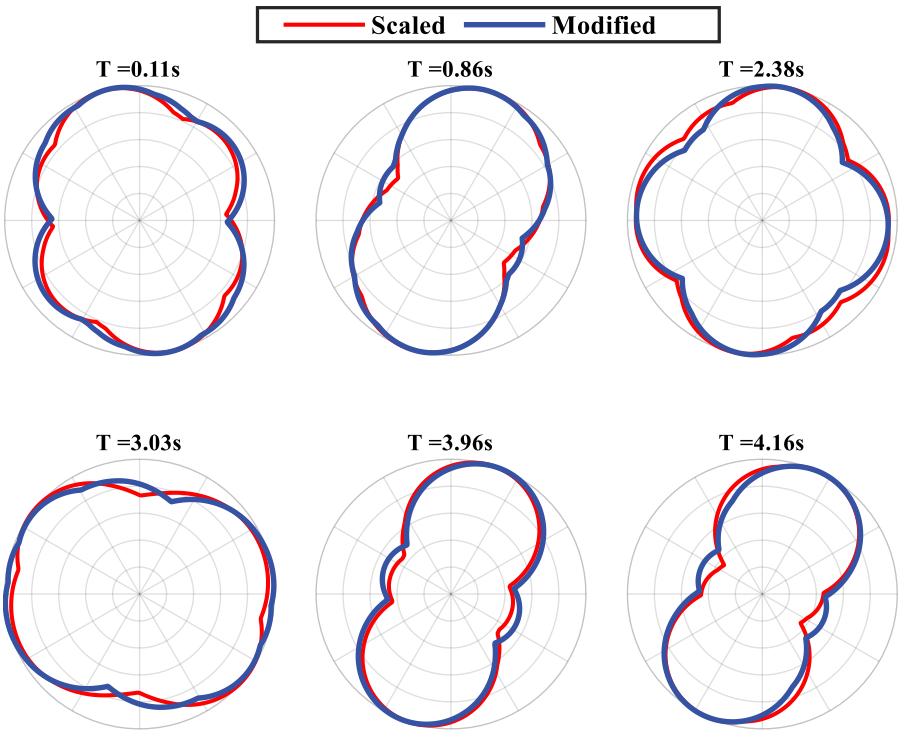
RotD100 response spectrum



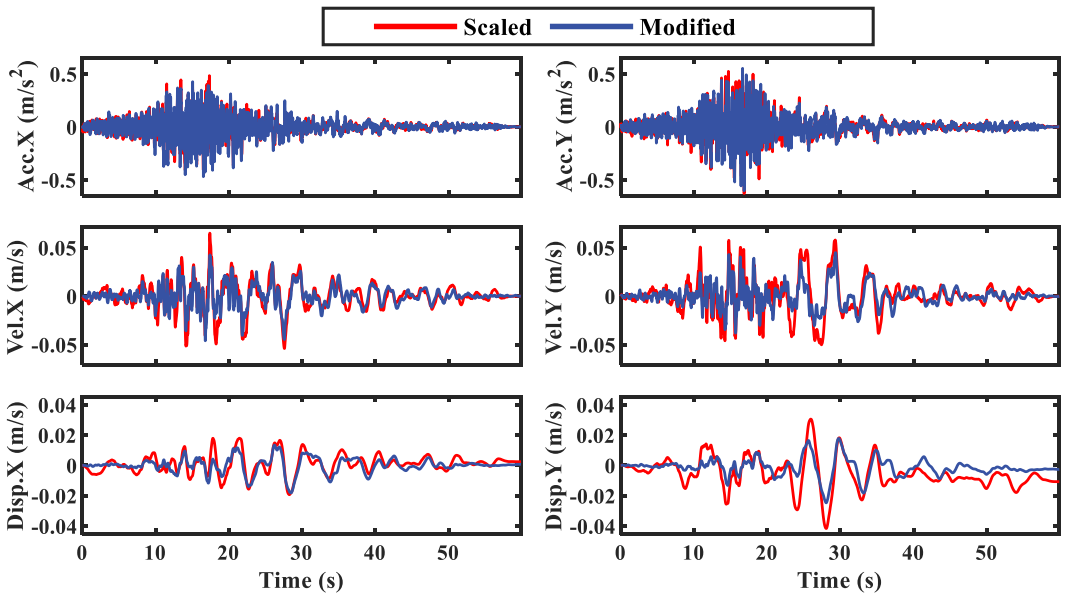
Arias intensity



Radial spectral acceleration pattern (RadSAP)

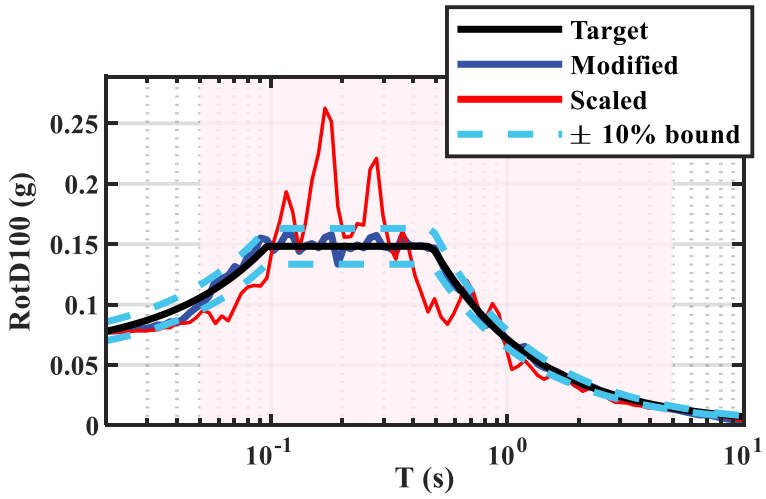


Time history comparison

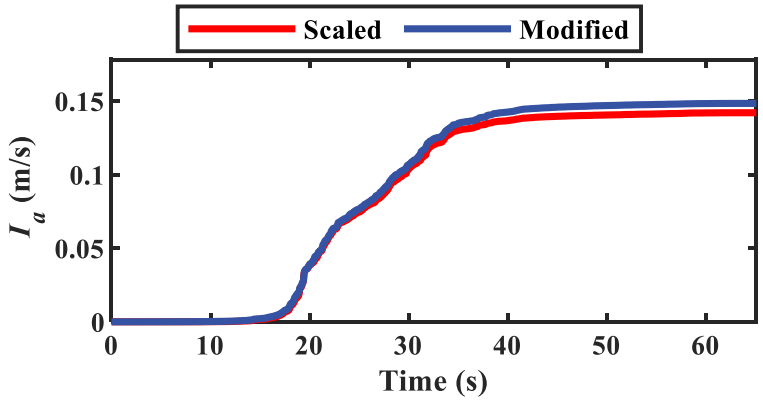


No. 18 RSN # 6961

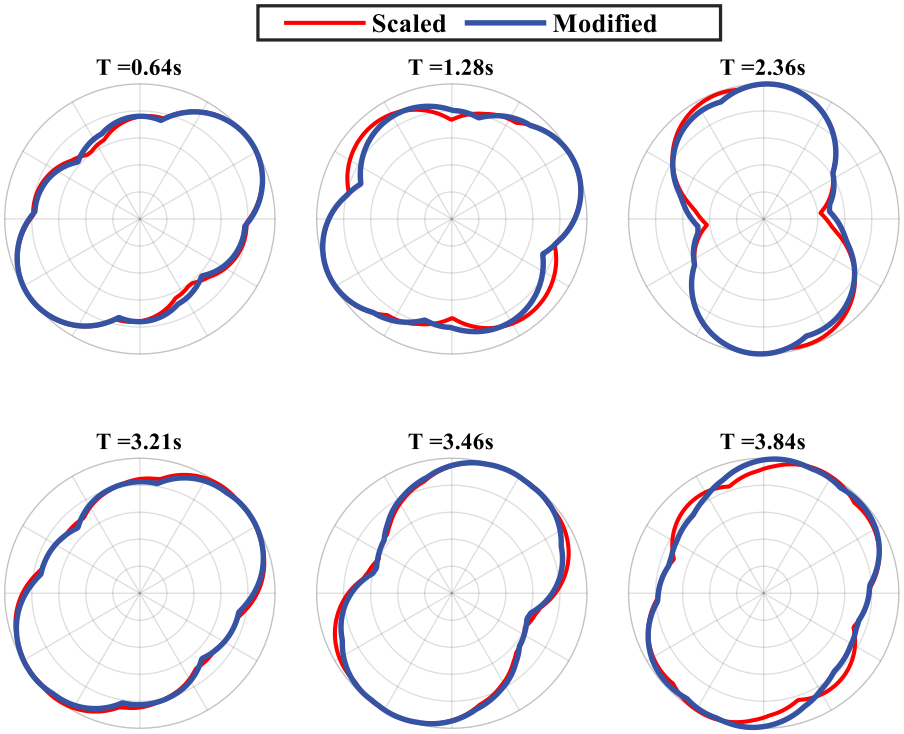
RotD100 response spectrum



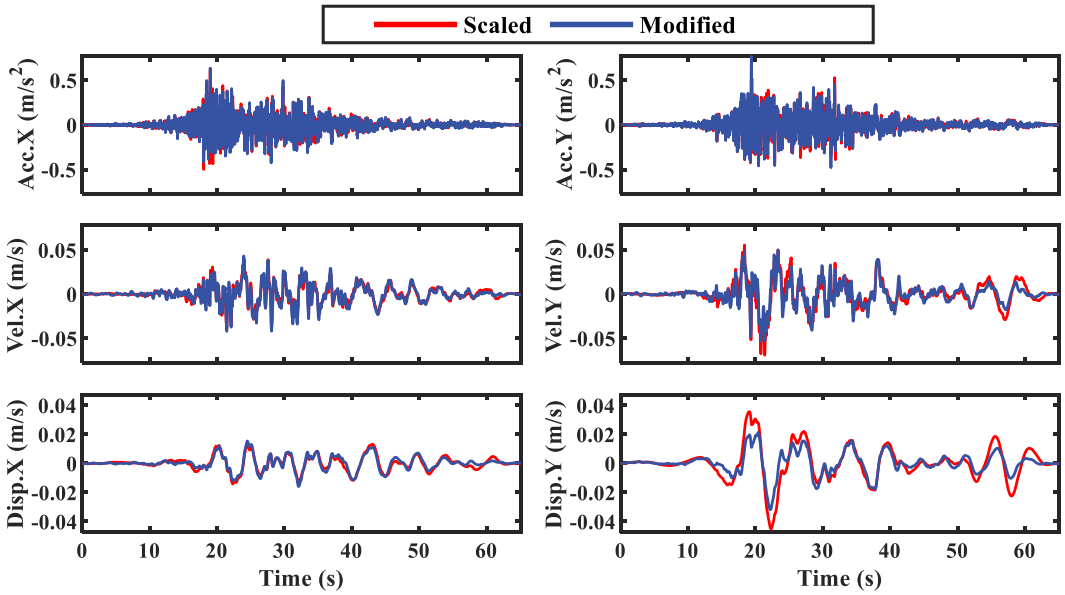
Arias intensity



Radial spectral acceleration pattern (RadSAP)

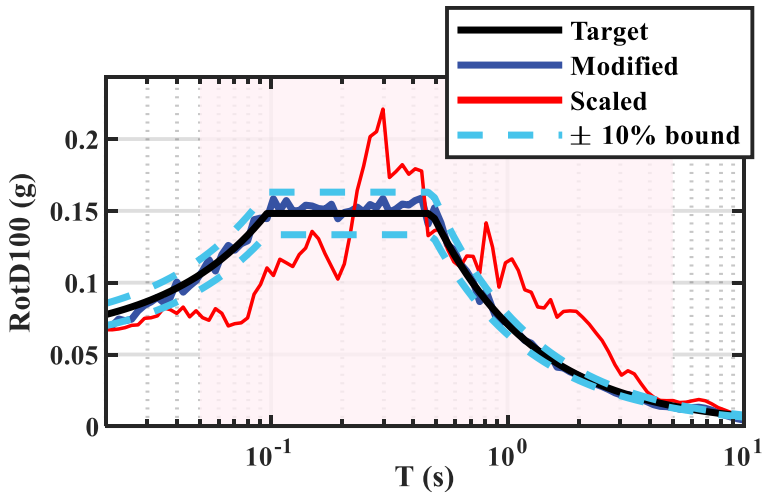


Time history comparison

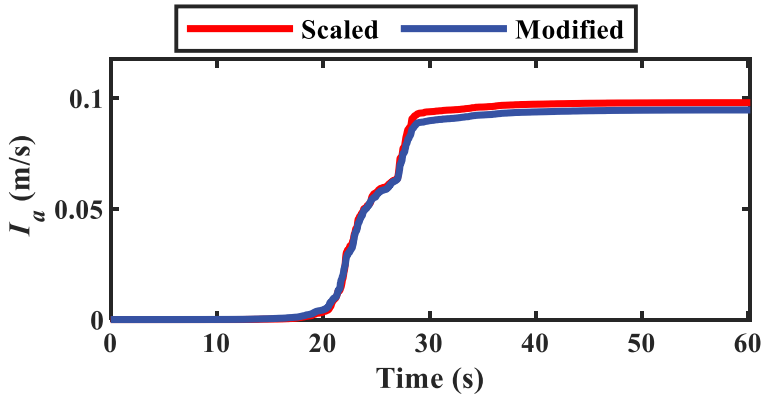


No. 19 RSN # 6911

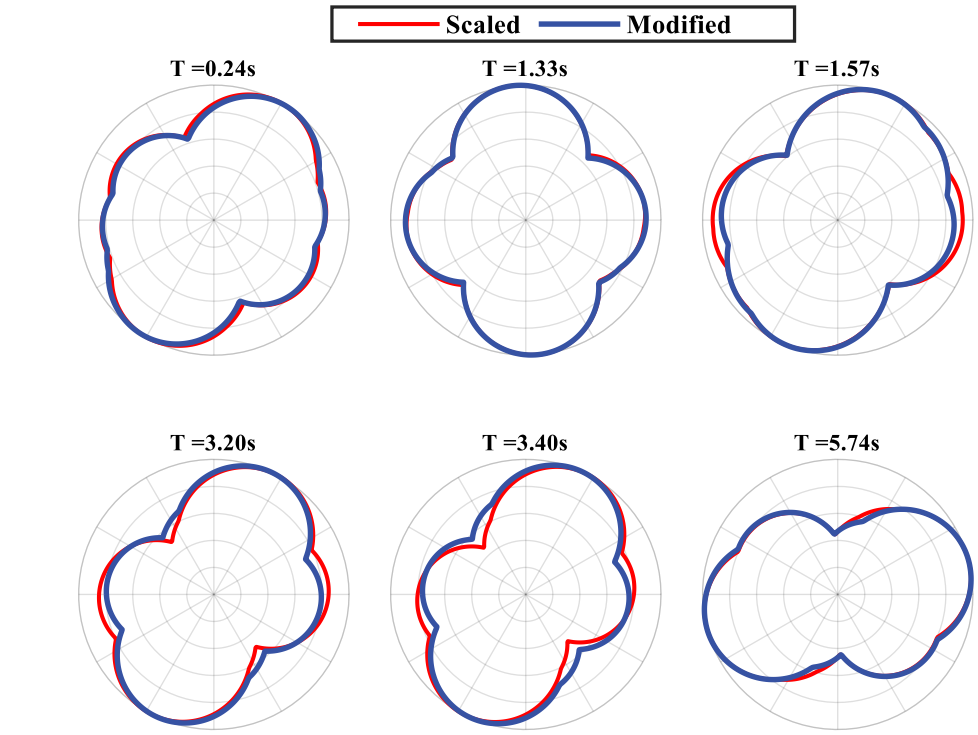
RotD100 response spectrum



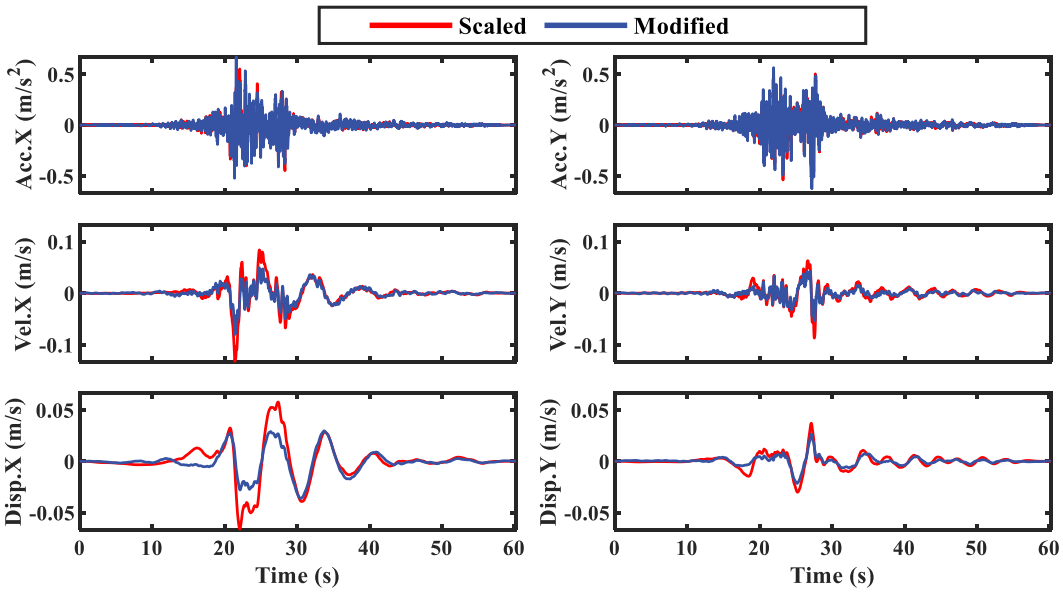
Arias intensity



Radial spectral acceleration pattern (RadSAP)

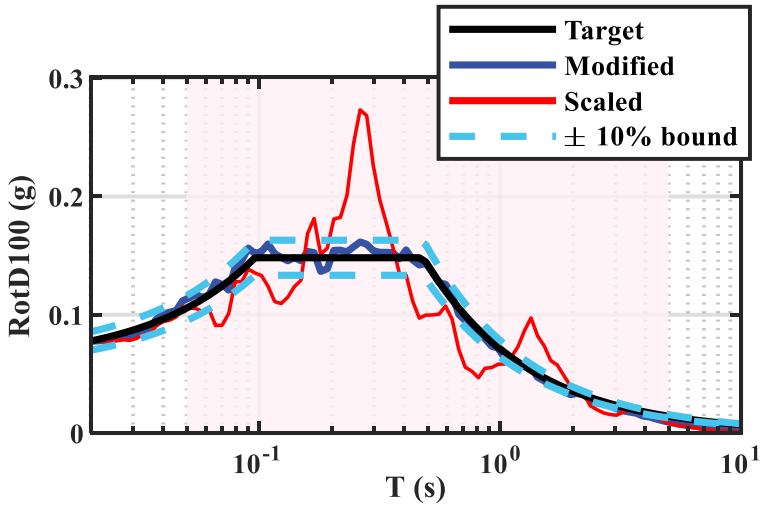


Time history comparison

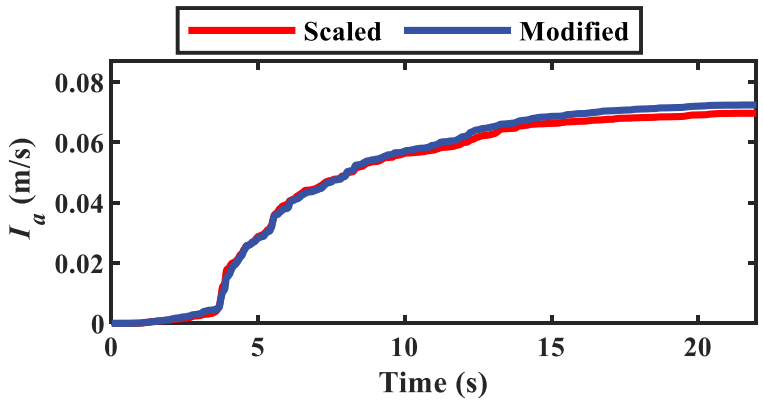


No. 20 RSN # 553

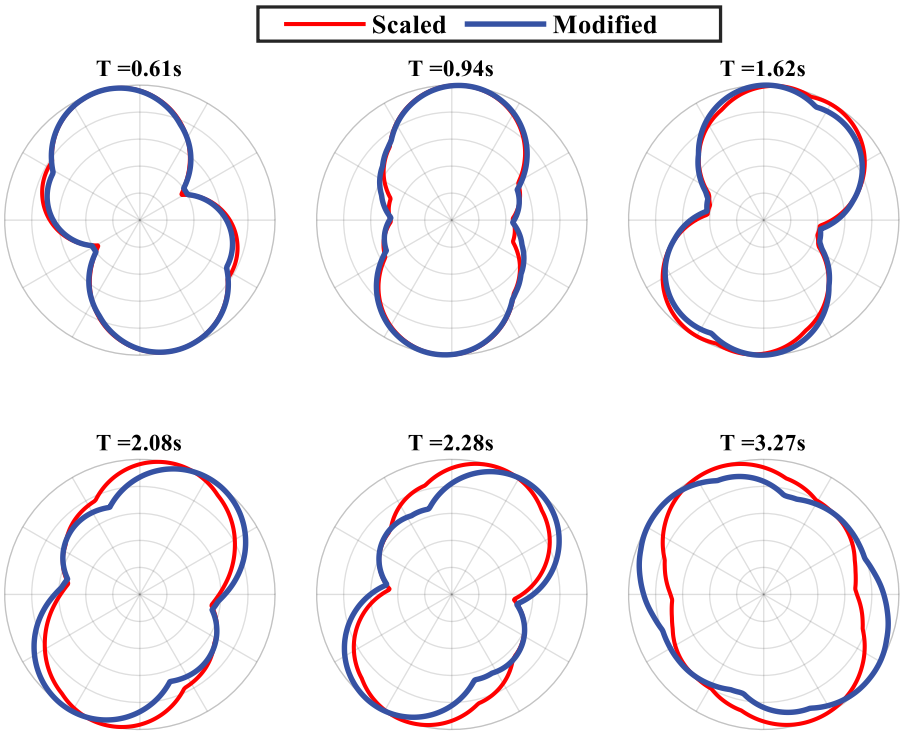
RotD100 response spectrum



Arias intensity



Radial spectral acceleration pattern (RadSAP)



Time history comparison