

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

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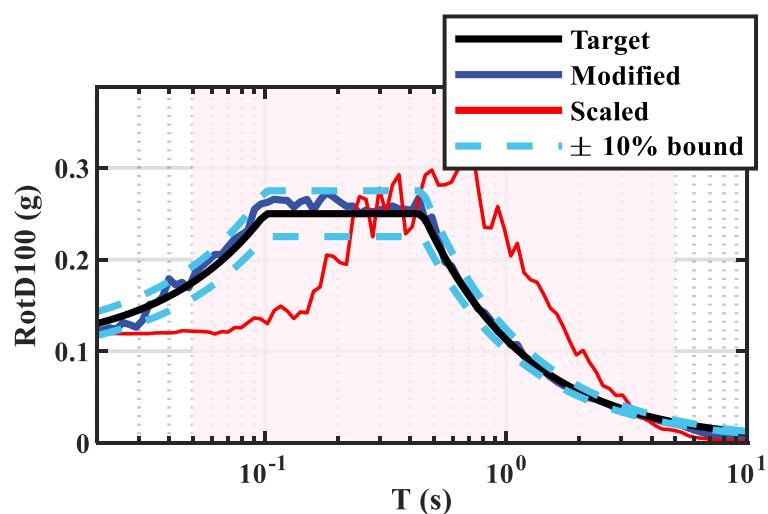
^c*Department of Urban Management, Kyoto University, Kyoto 611-0011, Japan.*

^d*Disaster Prevention Research Institute, Kyoto University, Kyoto, Japan.*

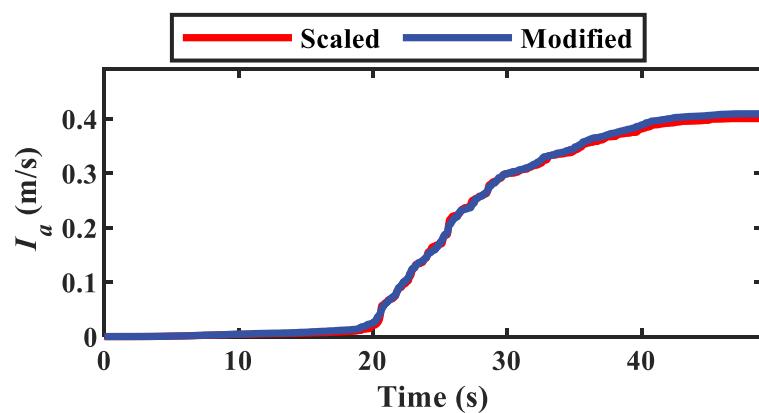
**Results obtained using the proposed algorithm for the
target JTG RotD100 response spectrum**

No. 1 RSN # 2330

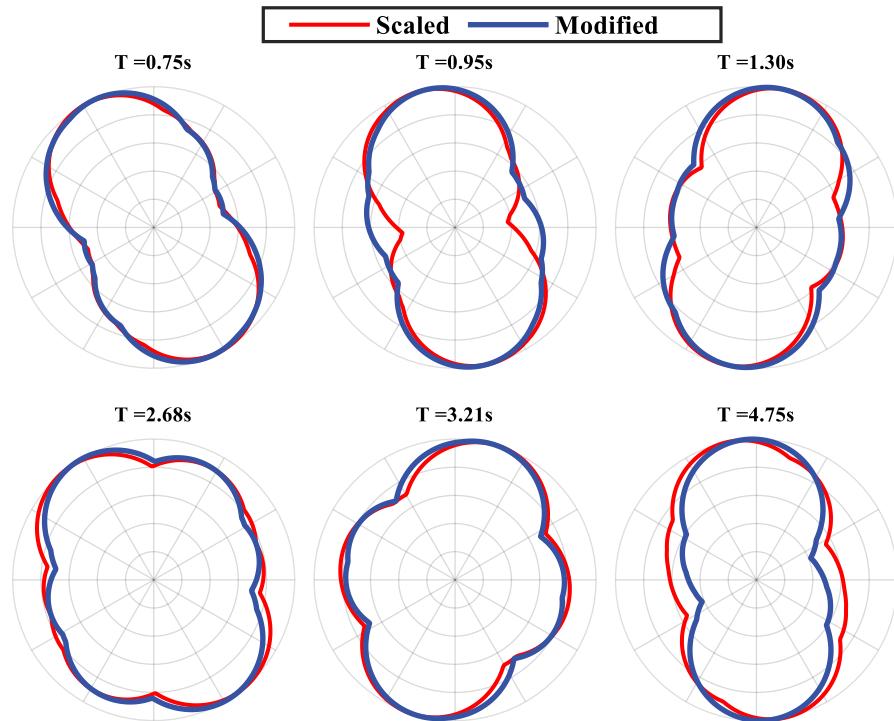
RotD100 response spectrum



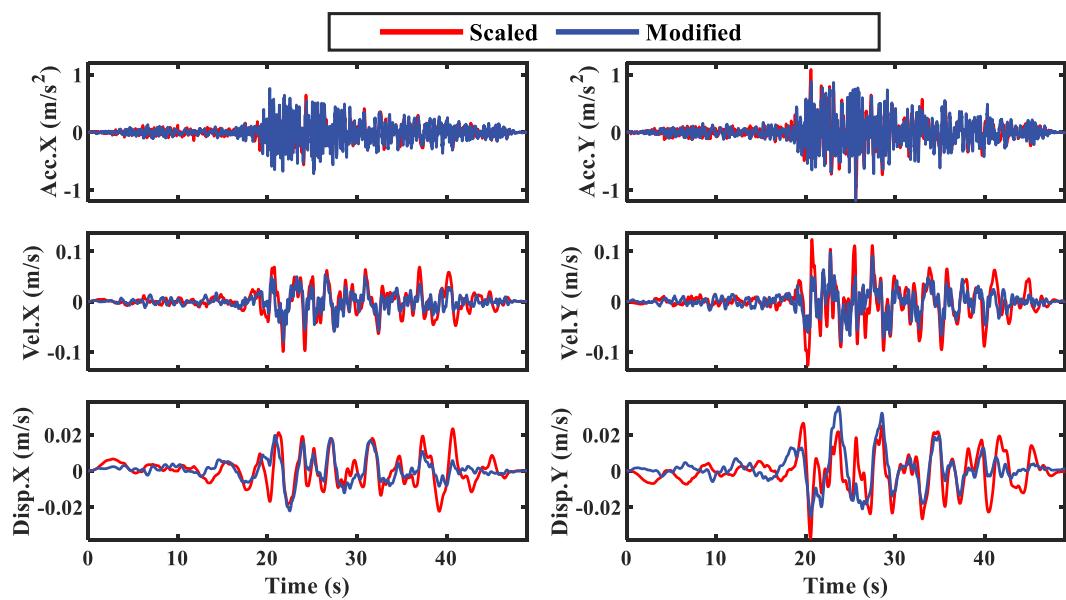
Arias intensity



Radial spectral acceleration pattern (RadSAP)

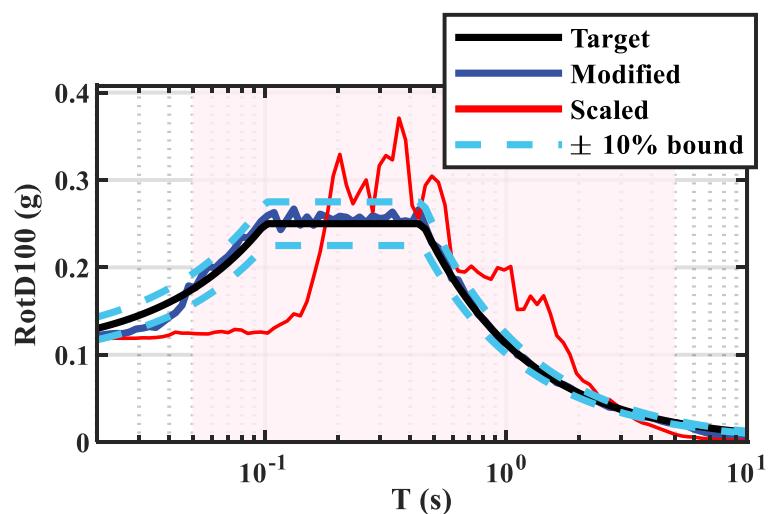


Time history comparison

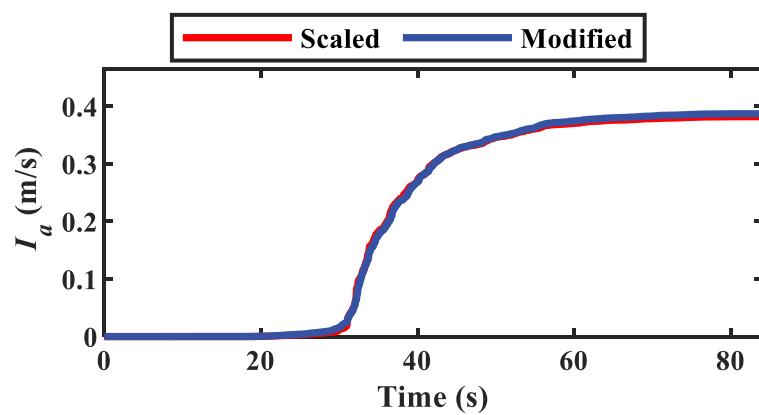


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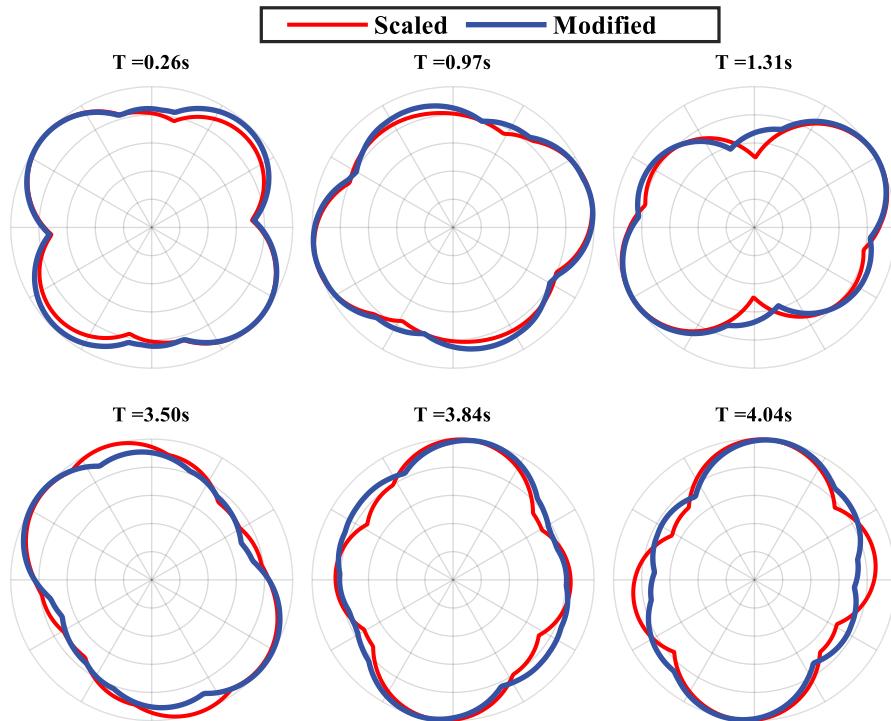
RotD100 response spectrum



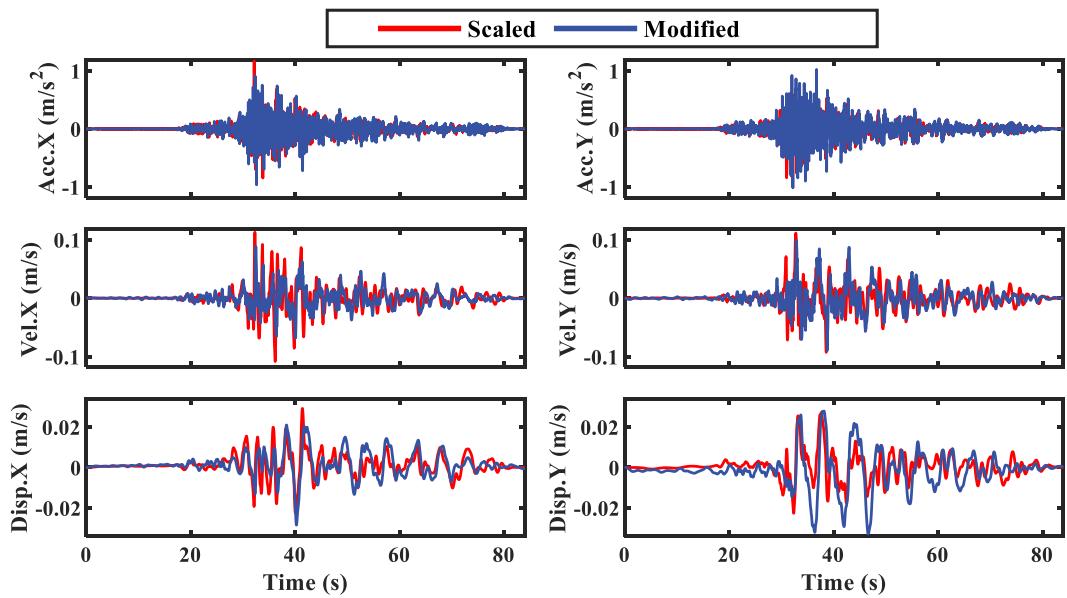
Arias intensity



Radial spectral acceleration pattern (RadSAP)

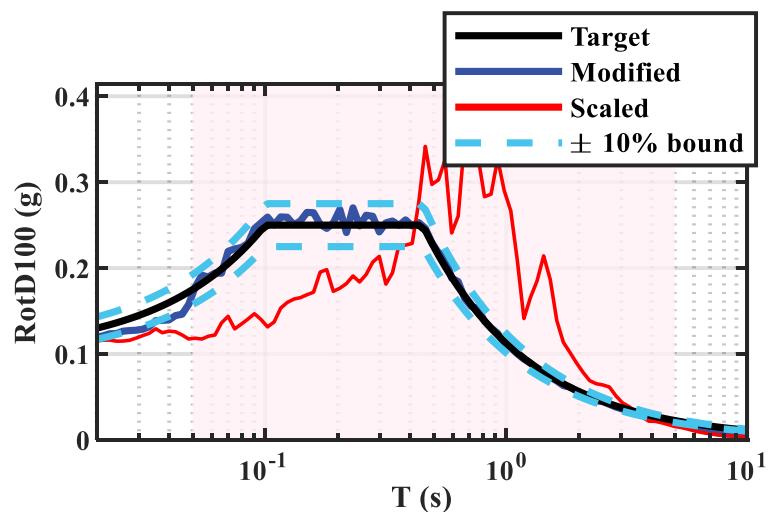


Time history comparison

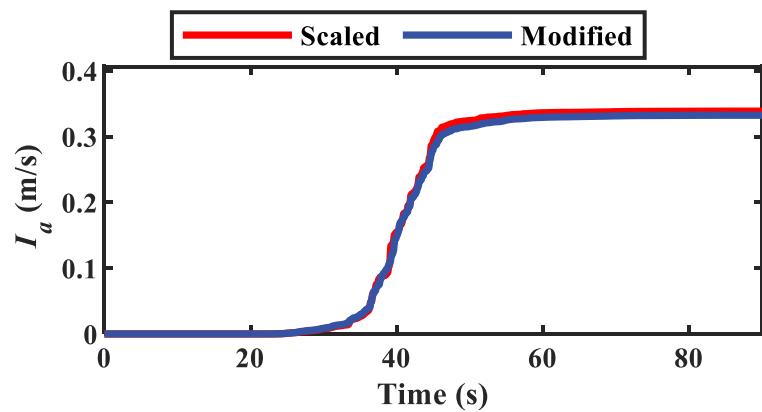


No. 3 RSN # 1509

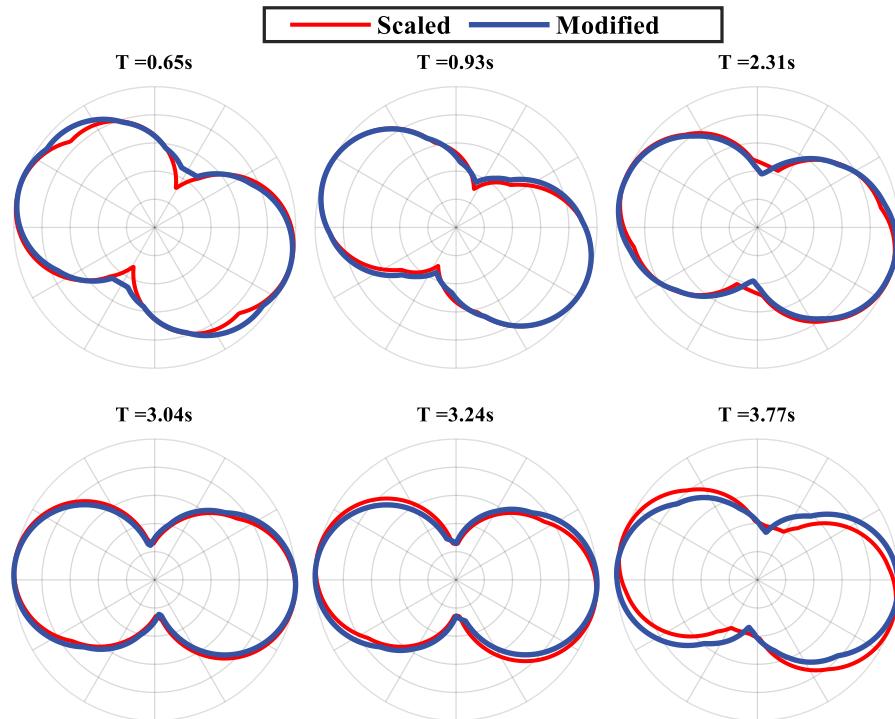
RotD100 response spectrum



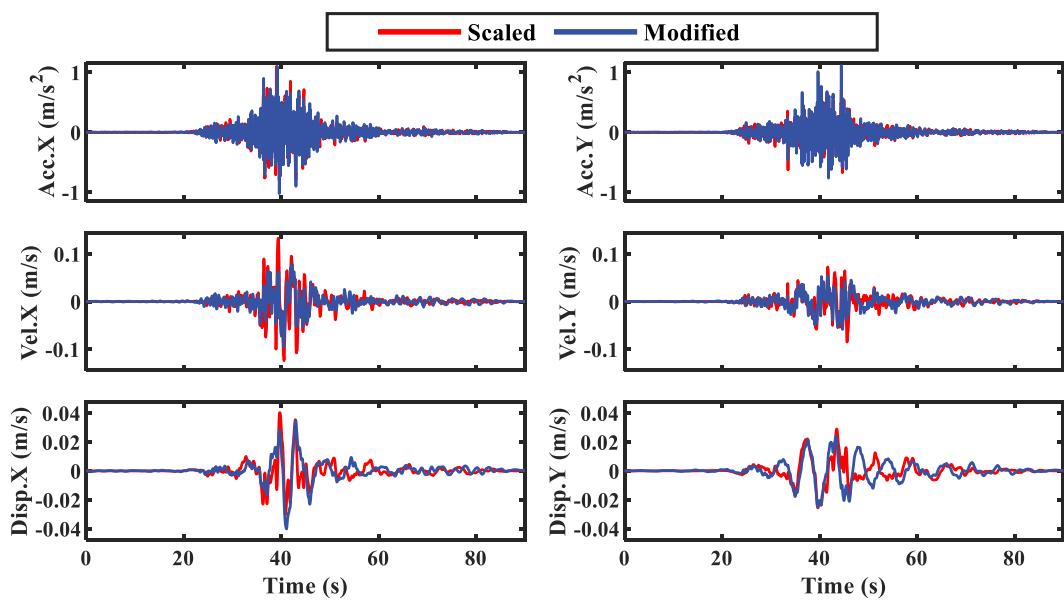
Arias intensity



Radial spectral acceleration pattern (RadSAP)

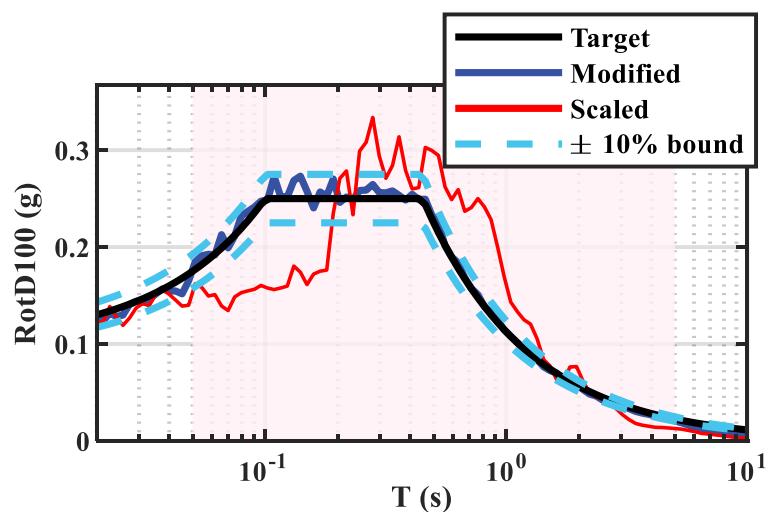


Time history comparison

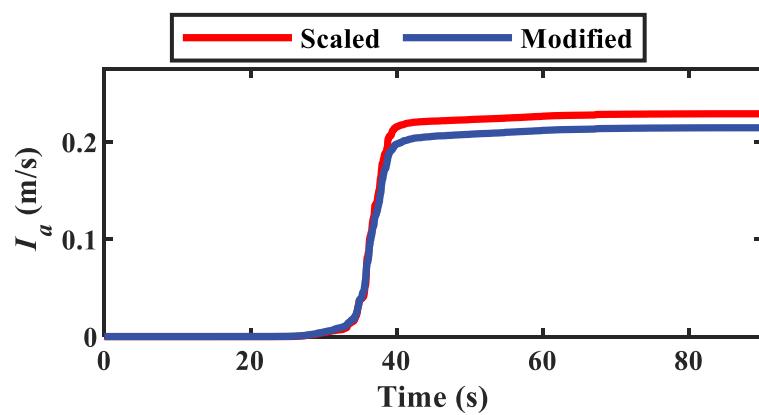


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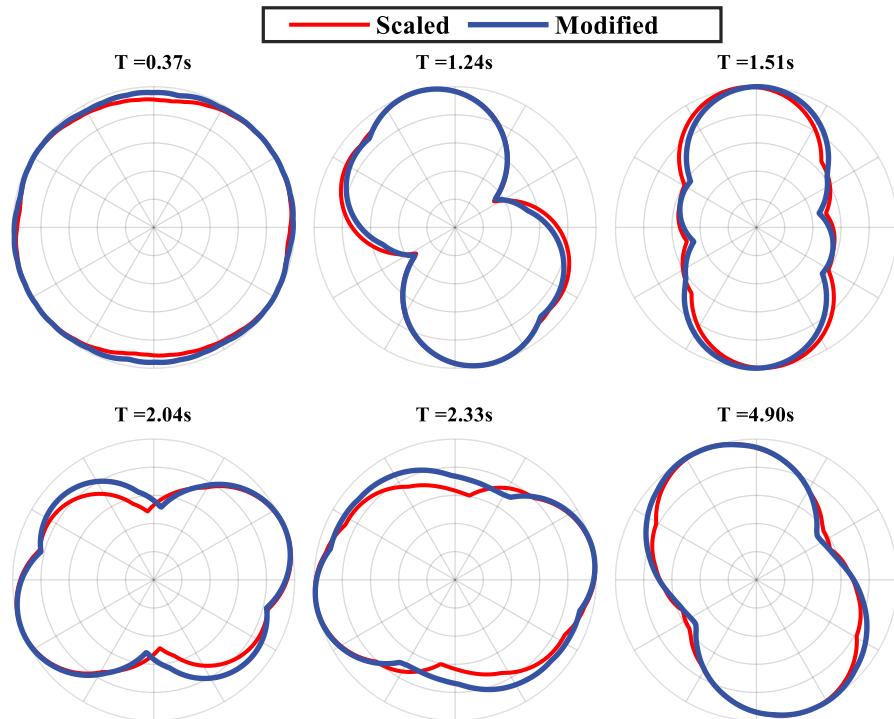
RotD100 response spectrum



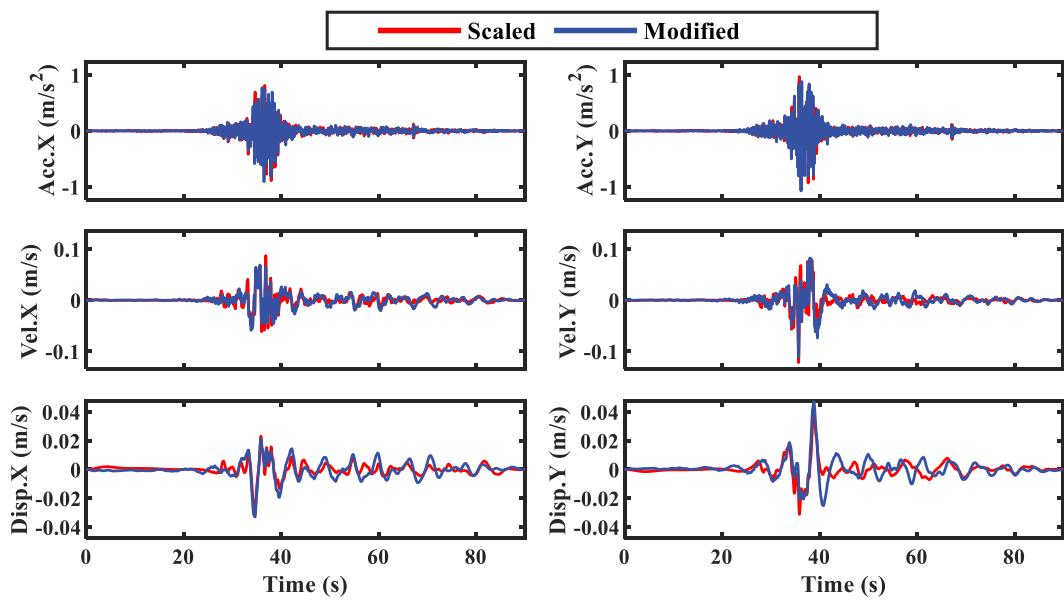
Arias intensity



Radial spectral acceleration pattern (RadSAP)

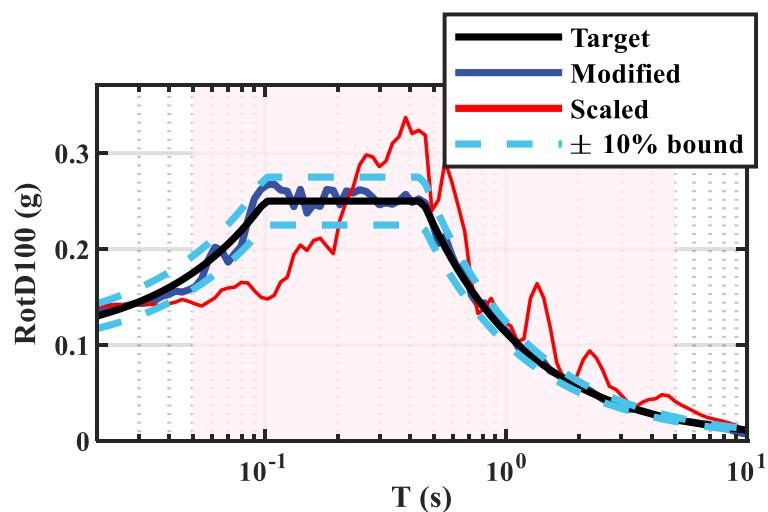


Time history comparison

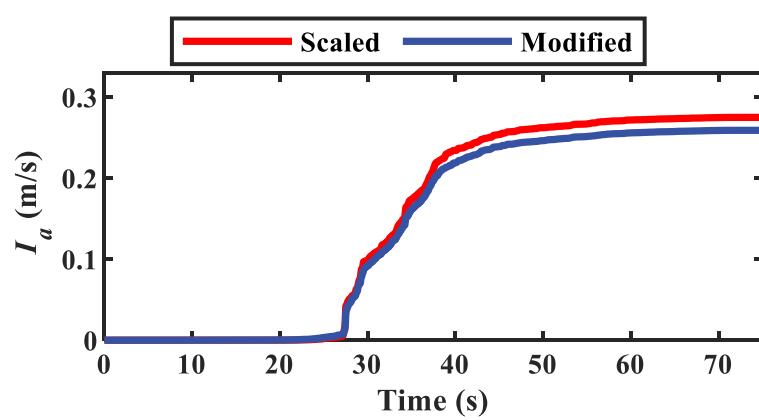


No. 5 RSN # 2646

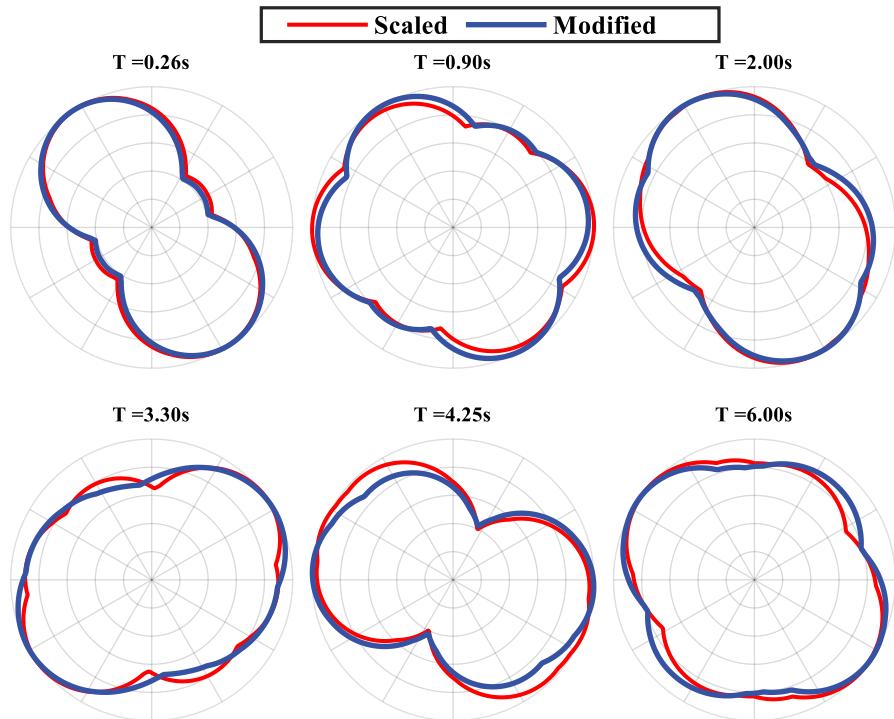
RotD100 response spectrum



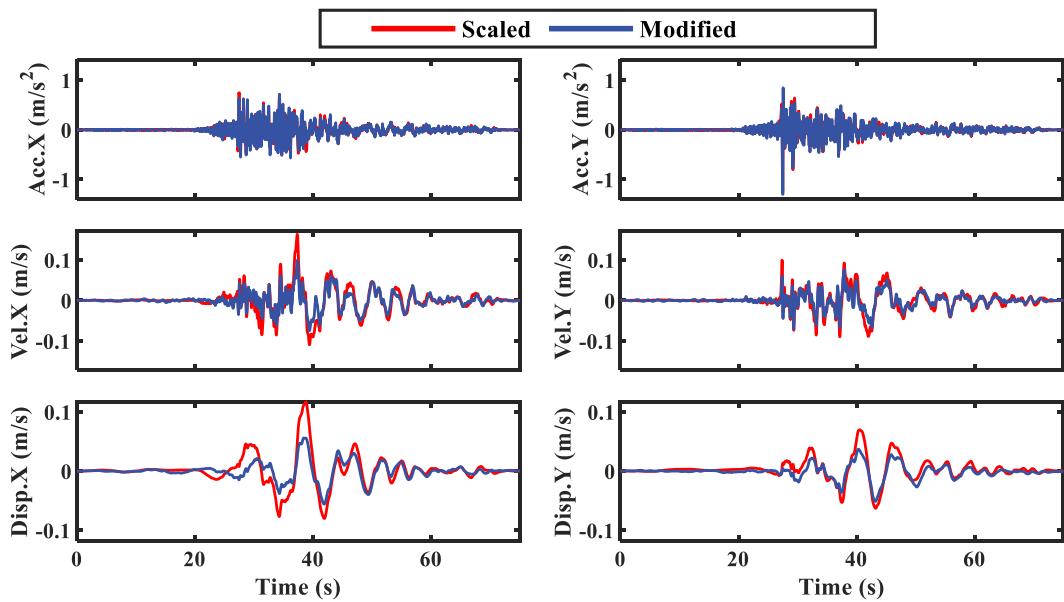
Arias intensity



Radial spectral acceleration pattern (RadSAP)

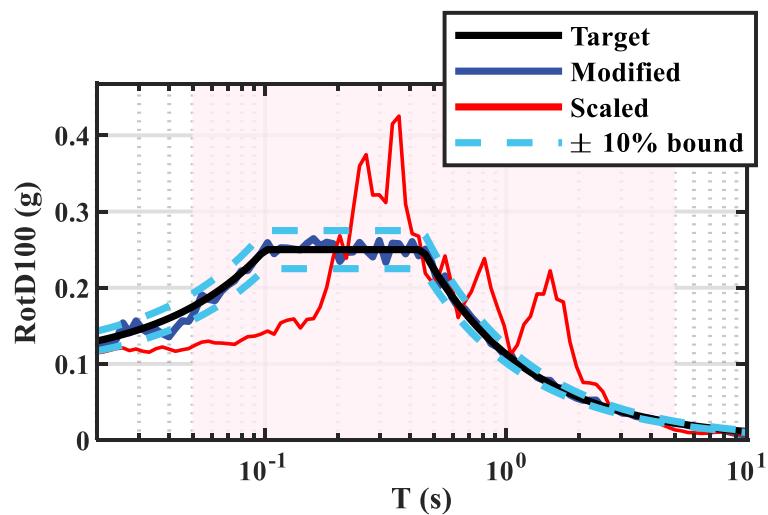


Time history comparison

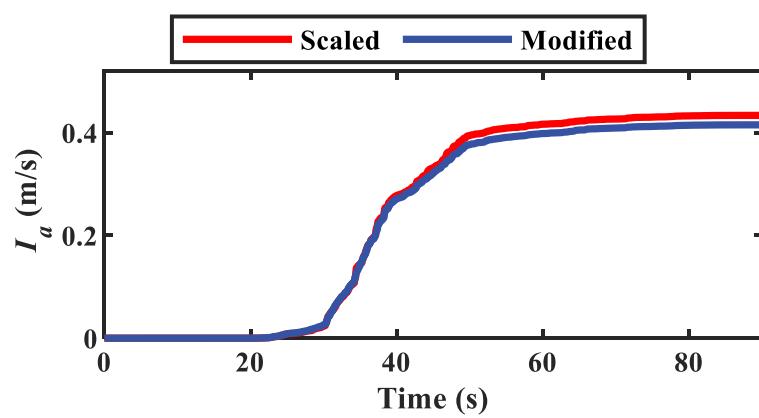


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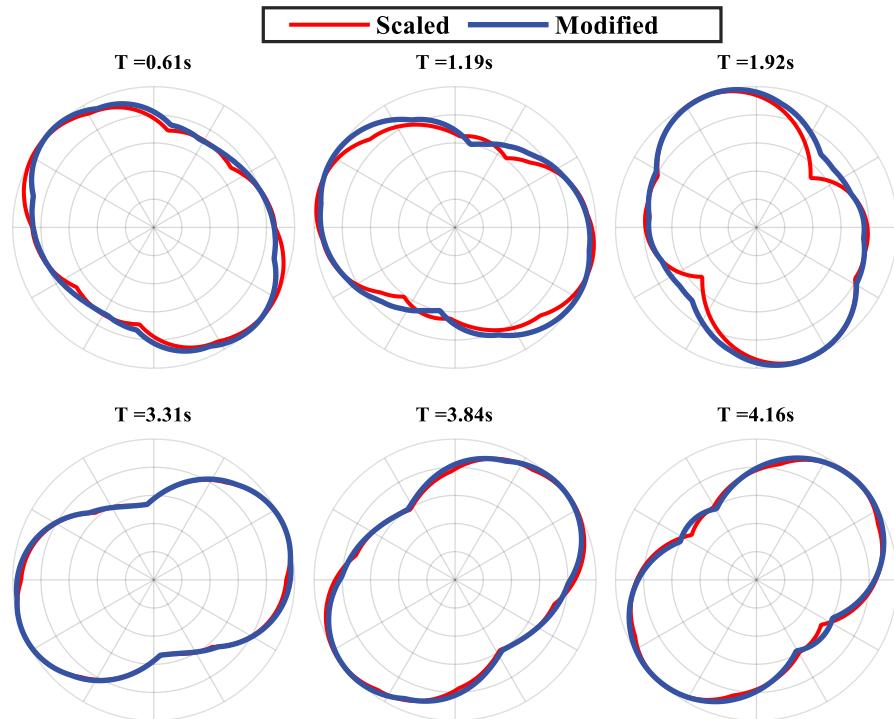
RotD100 response spectrum



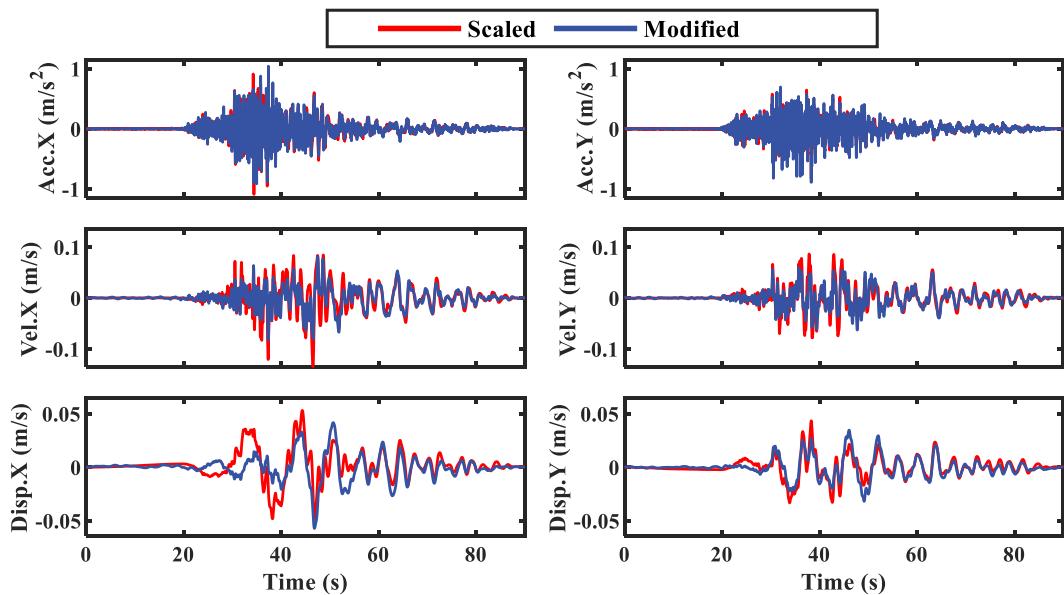
Arias intensity



Radial spectral acceleration pattern (RadSAP)

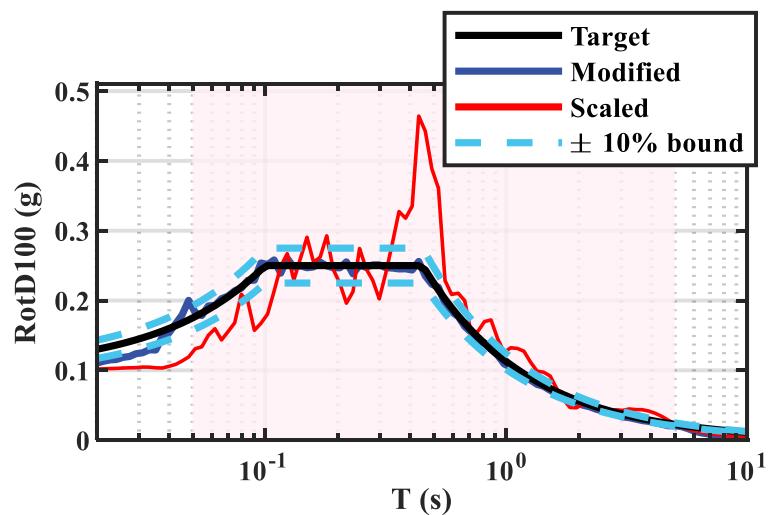


Time history comparison

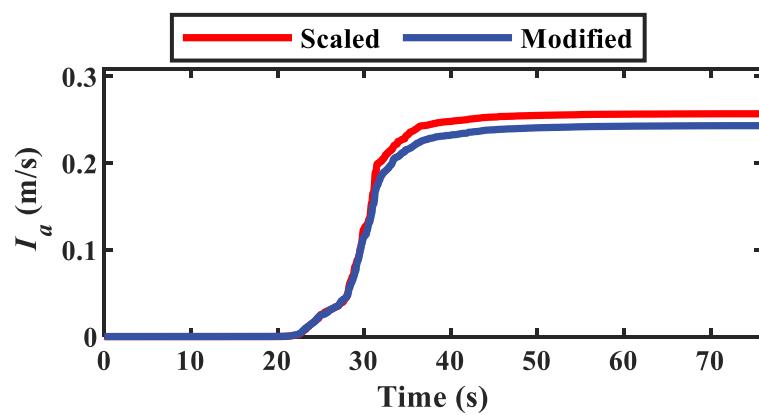


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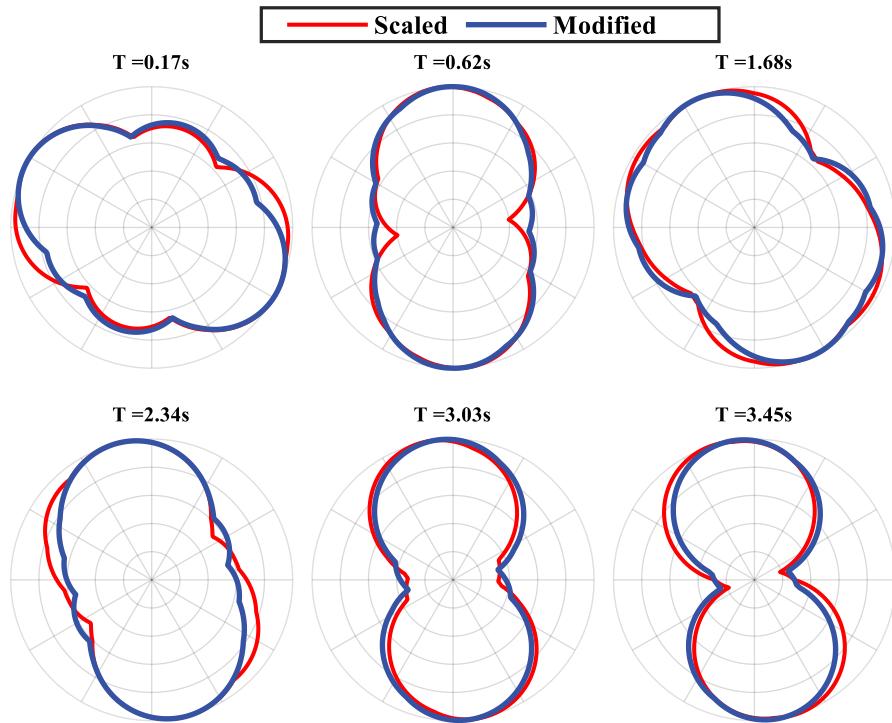
RotD100 response spectrum



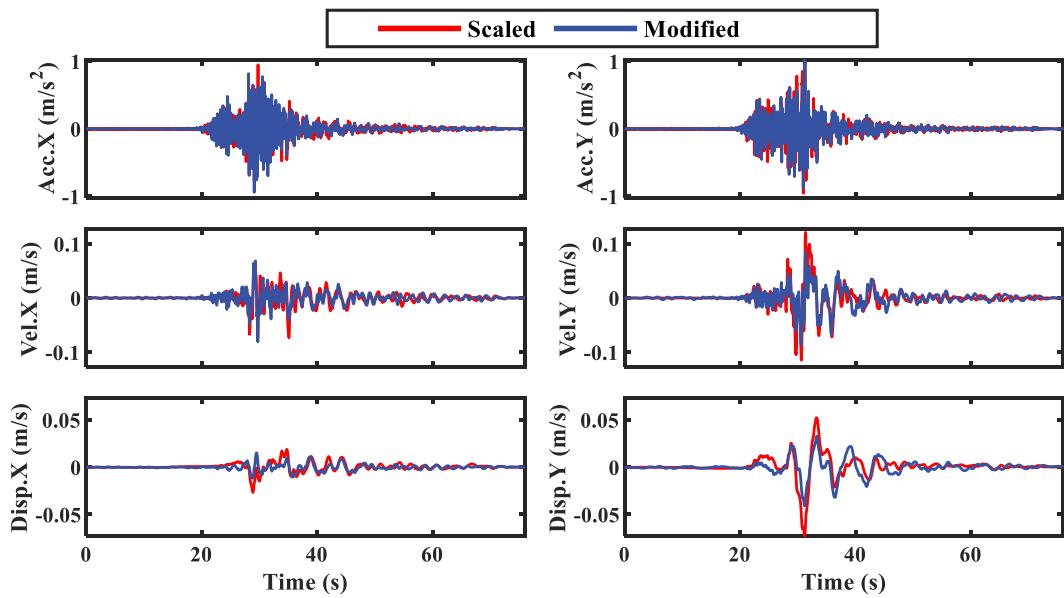
Arias intensity



Radial spectral acceleration pattern (RadSAP)

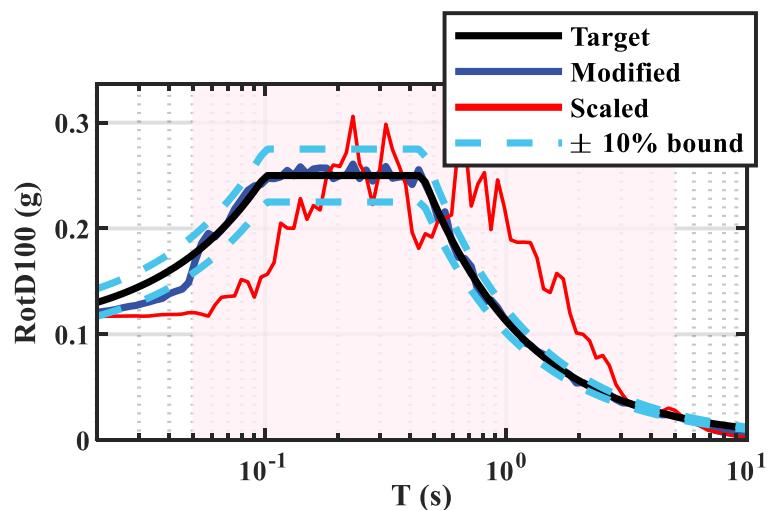


Time history comparison

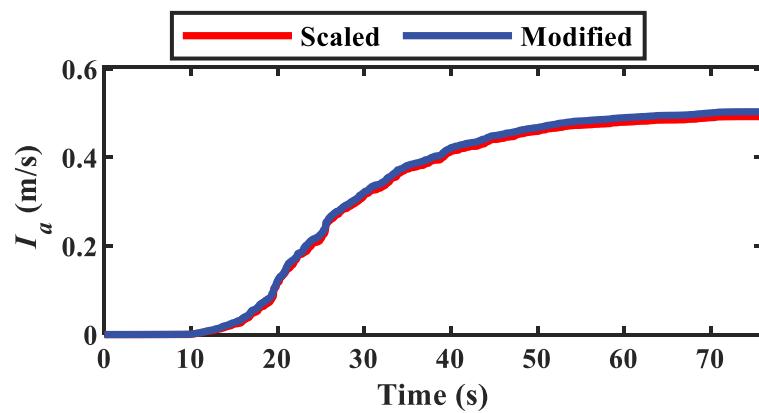


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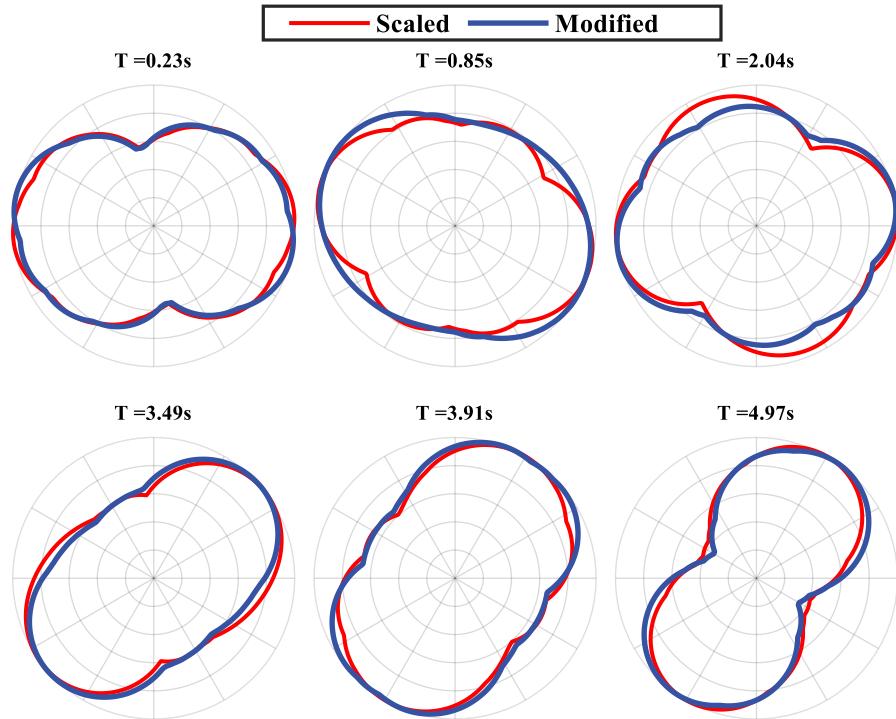
RotD100 response spectrum



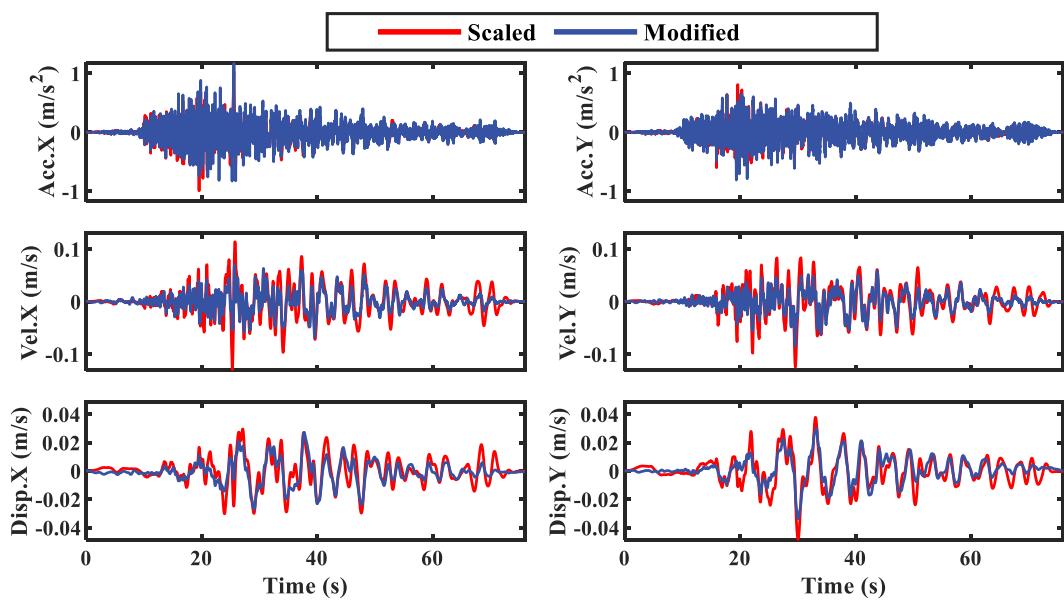
Arias intensity



Radial spectral acceleration pattern (RadSAP)

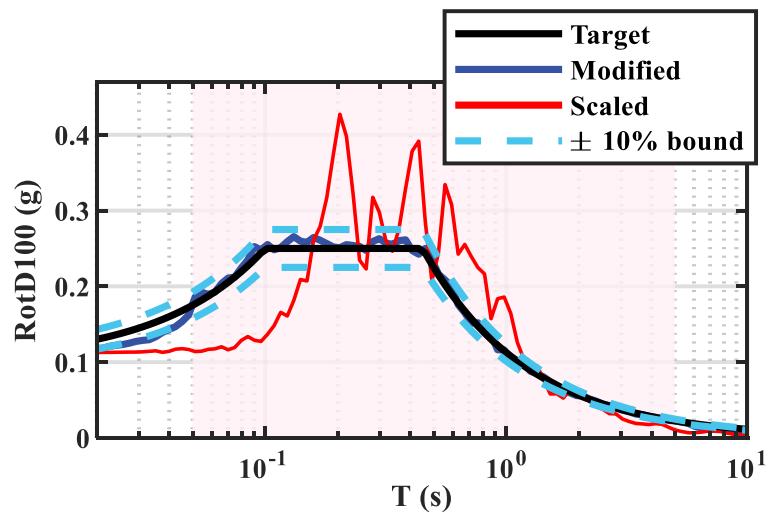


Time history comparison

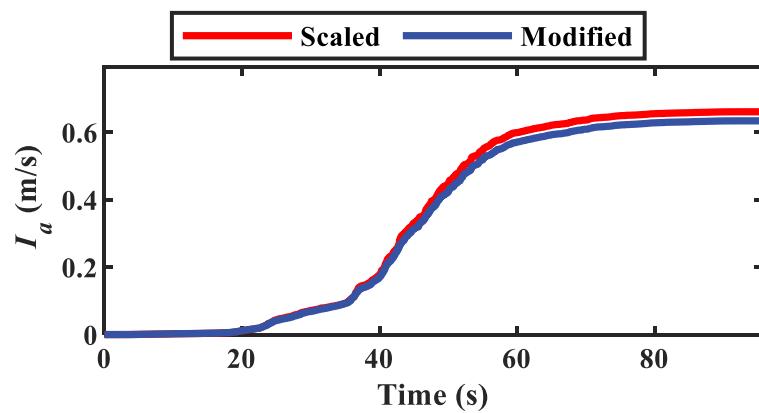


No. 9 RSN # 20158

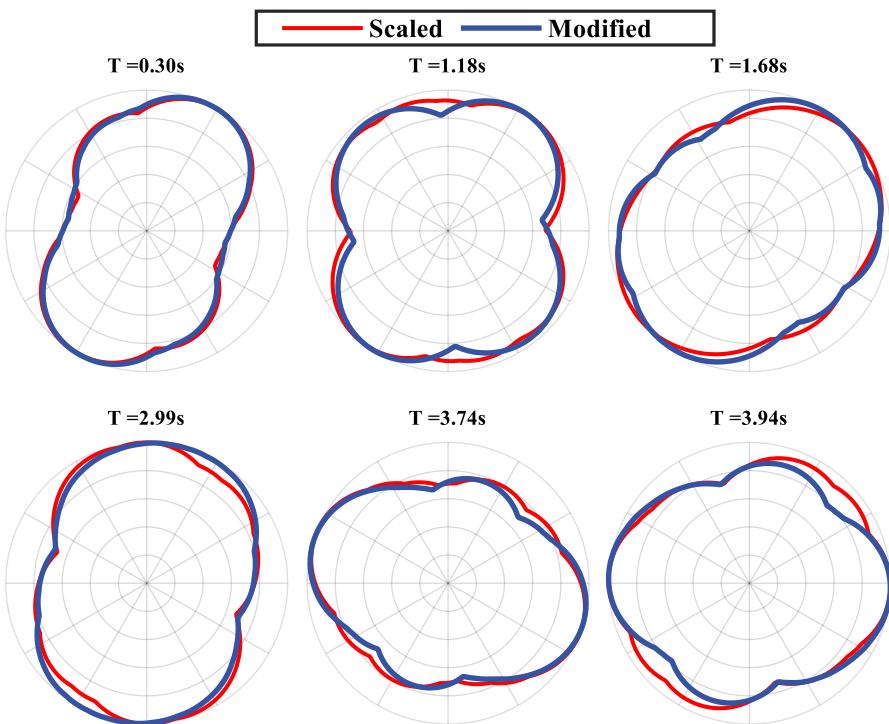
RotD100 response spectrum



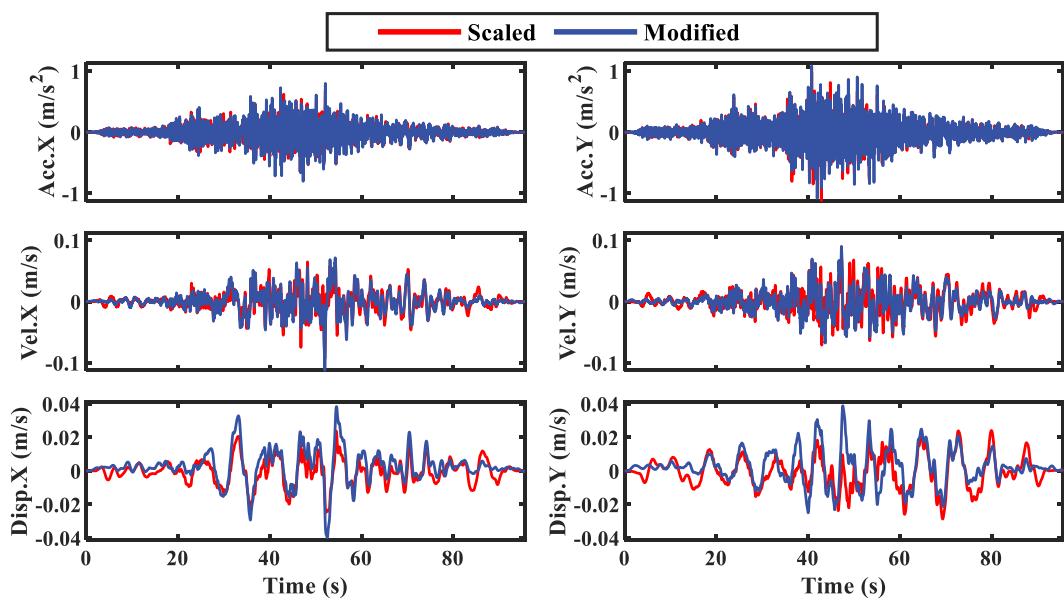
Arias intensity



Radial spectral acceleration pattern (RadSAP)

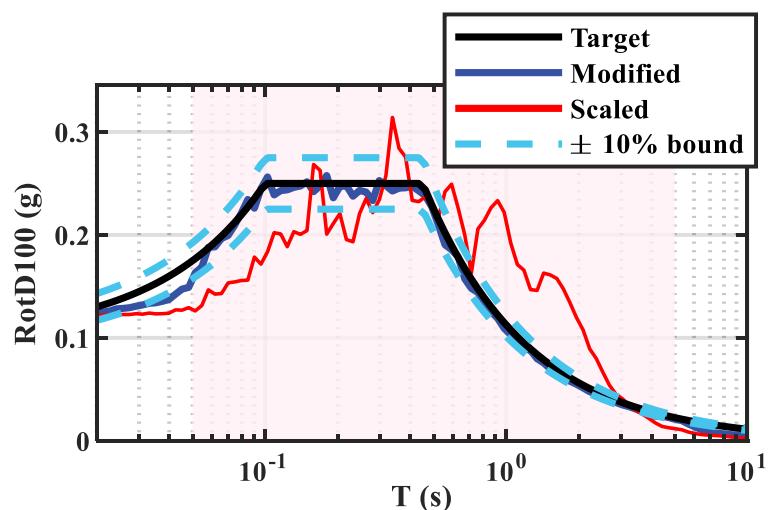


Time history comparison

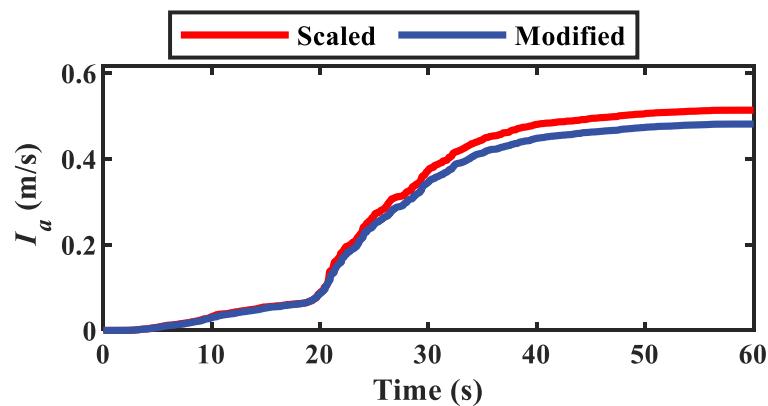


No. 10 RSN # 913

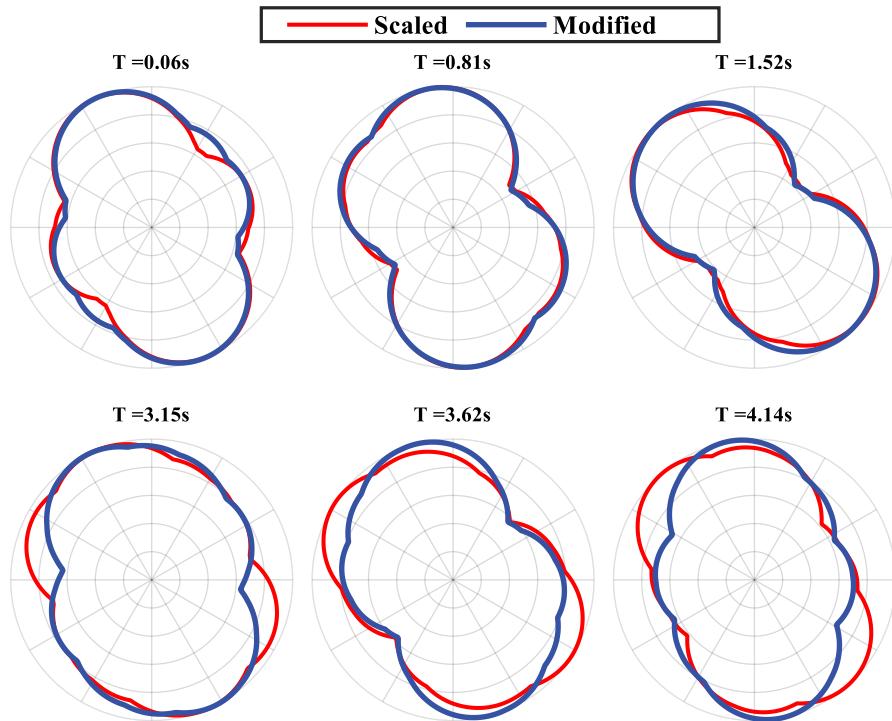
RotD100 response spectrum



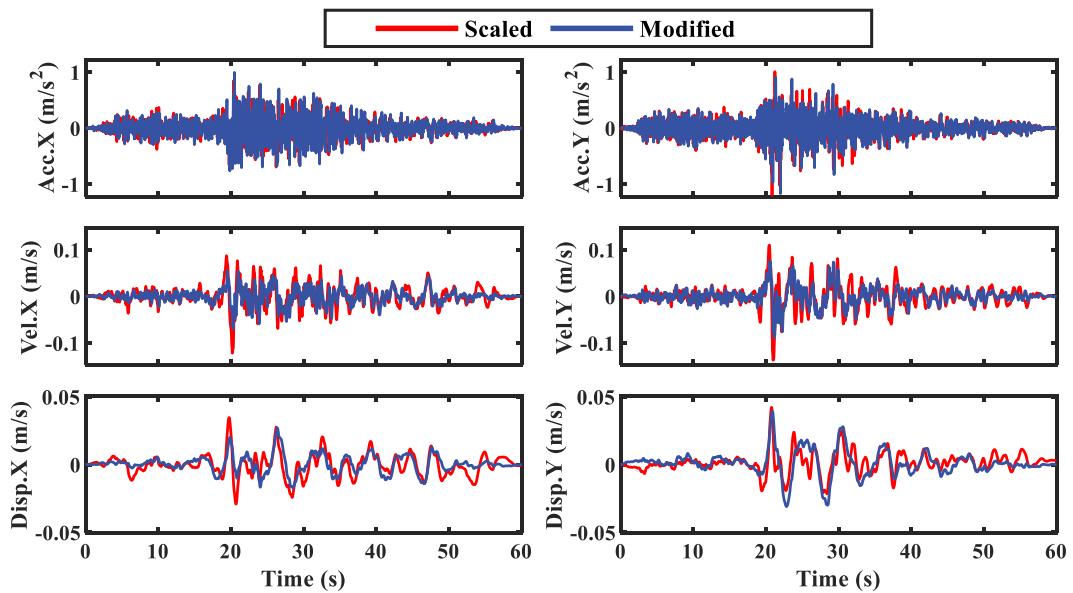
Arias intensity



Radial spectral acceleration pattern (RadSAP)

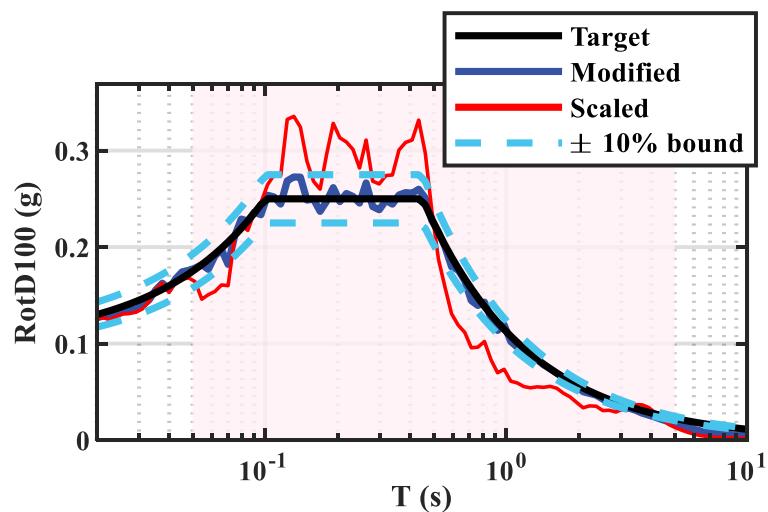


Time history comparison

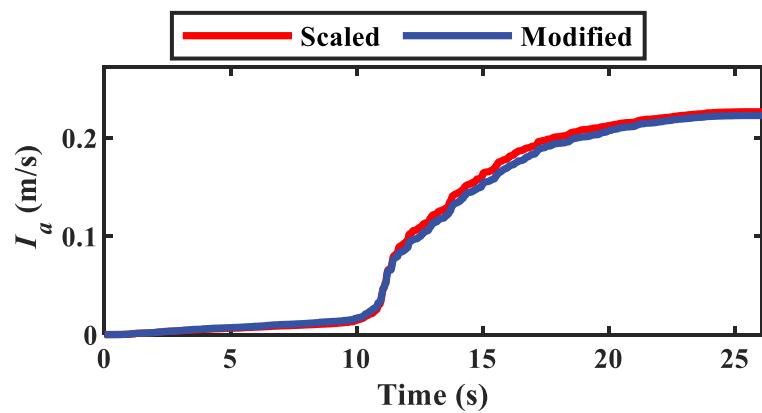


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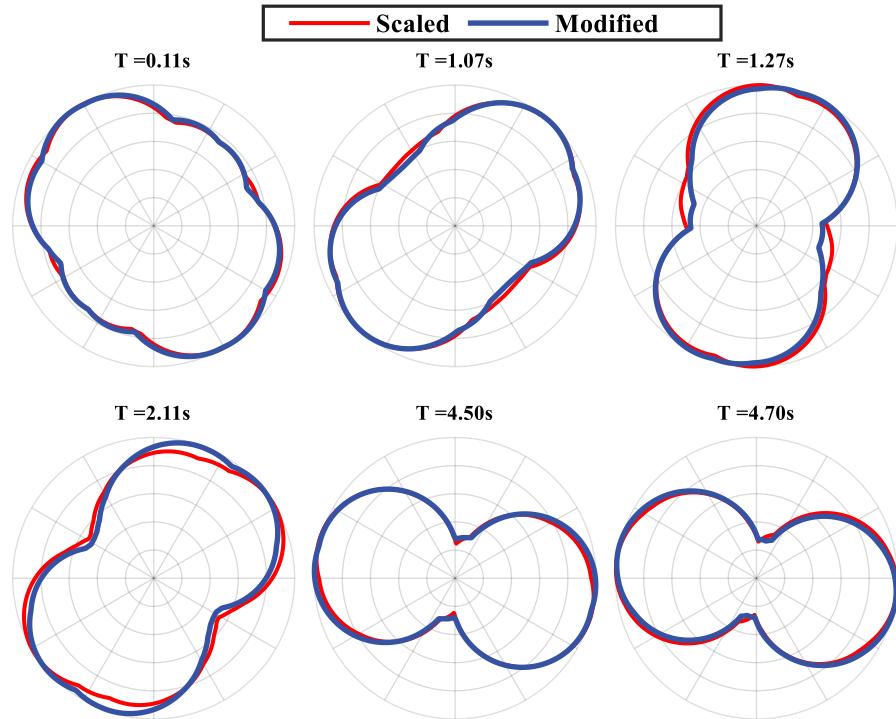
RotD100 response spectrum



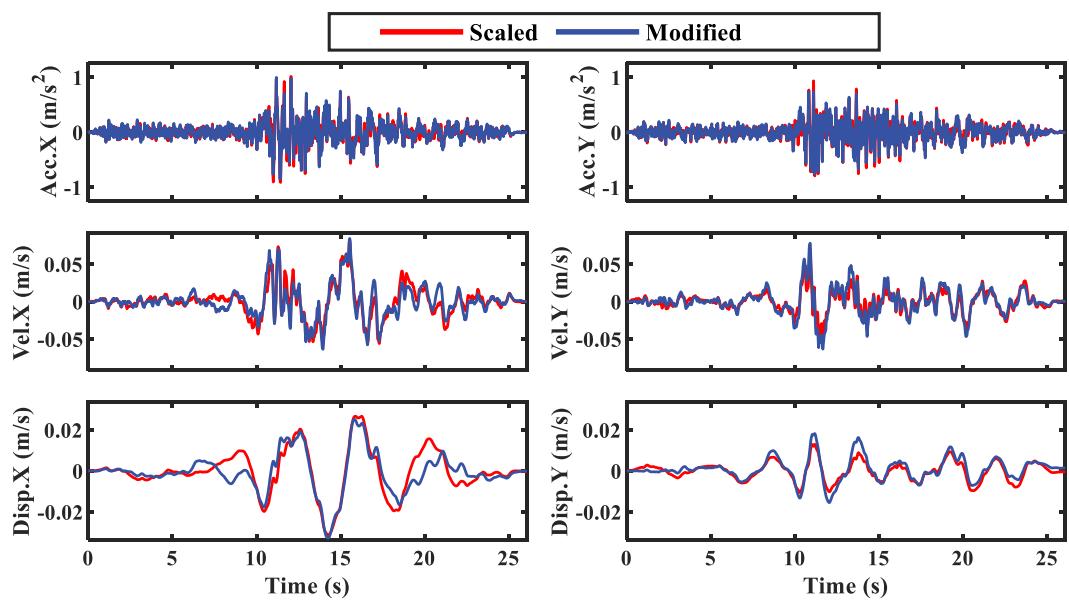
Arias intensity



Radial spectral acceleration pattern (RadSAP)

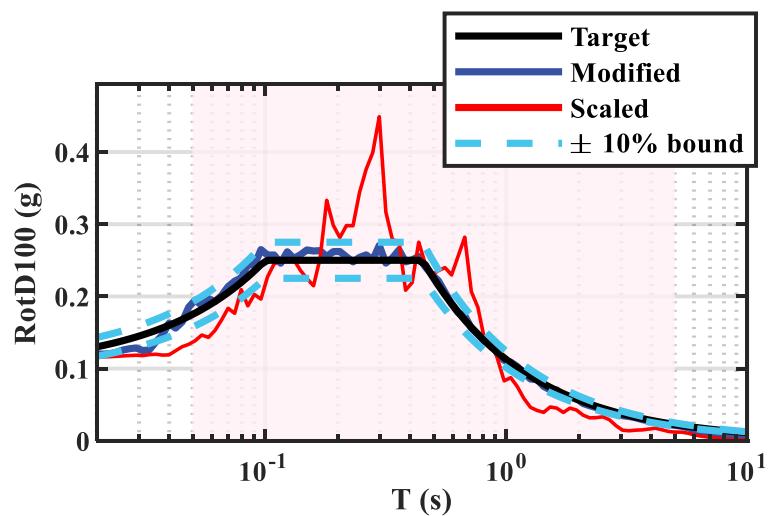


Time history comparison

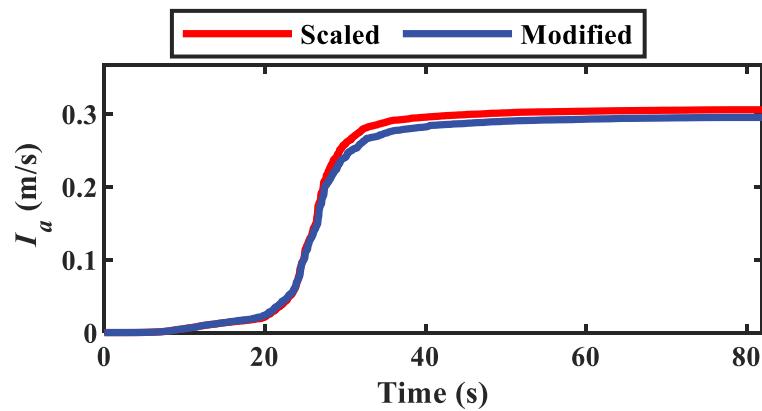


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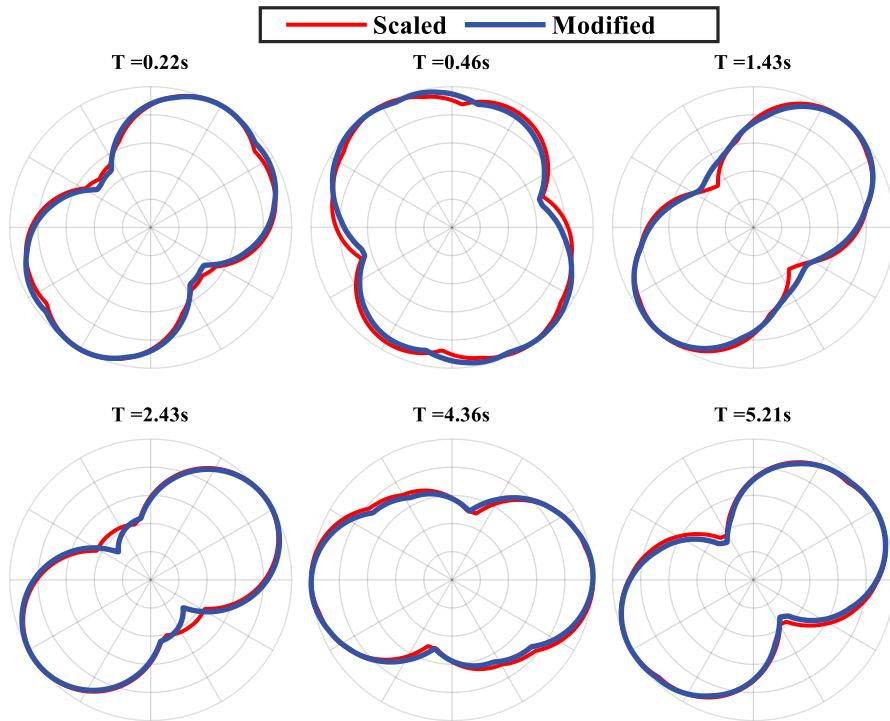
RotD100 response spectrum



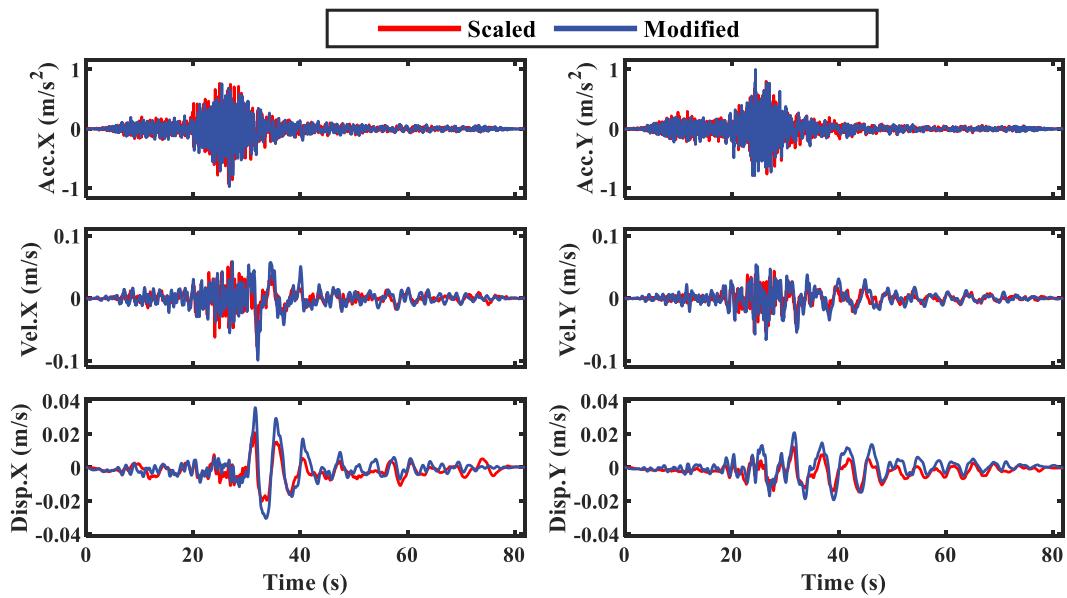
Arias intensity



Radial spectral acceleration pattern (RadSAP)

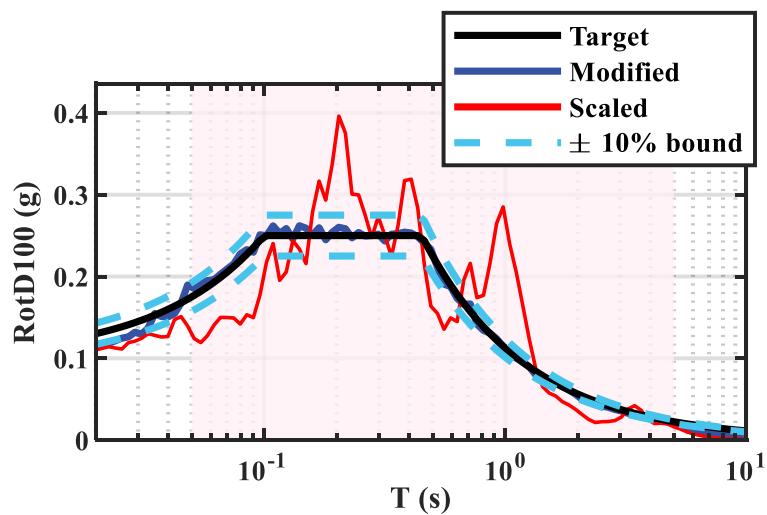


Time history comparison

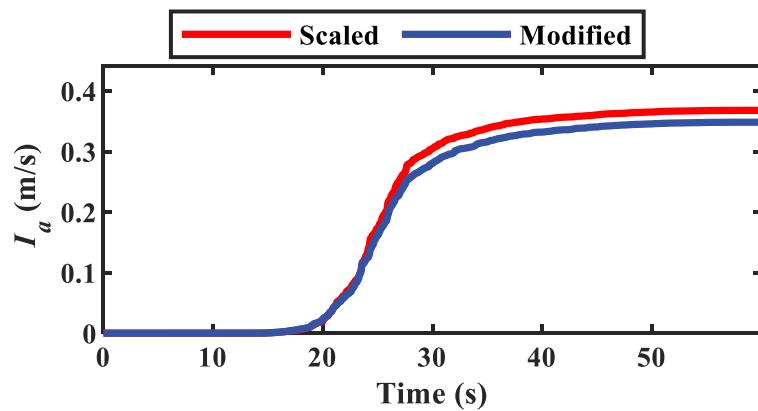


No. 13 RSN # 5808

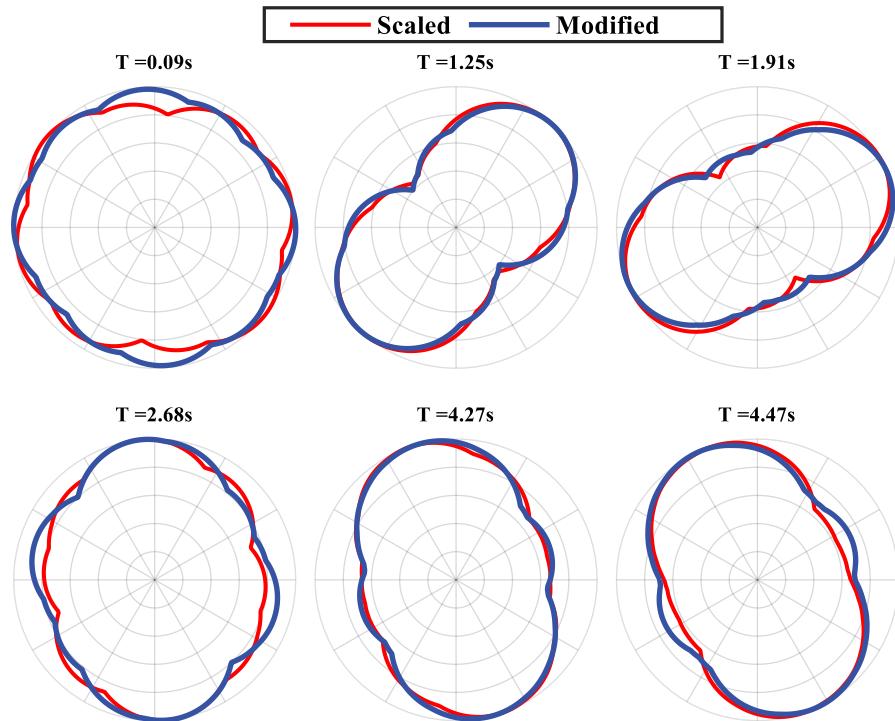
RotD100 response spectrum



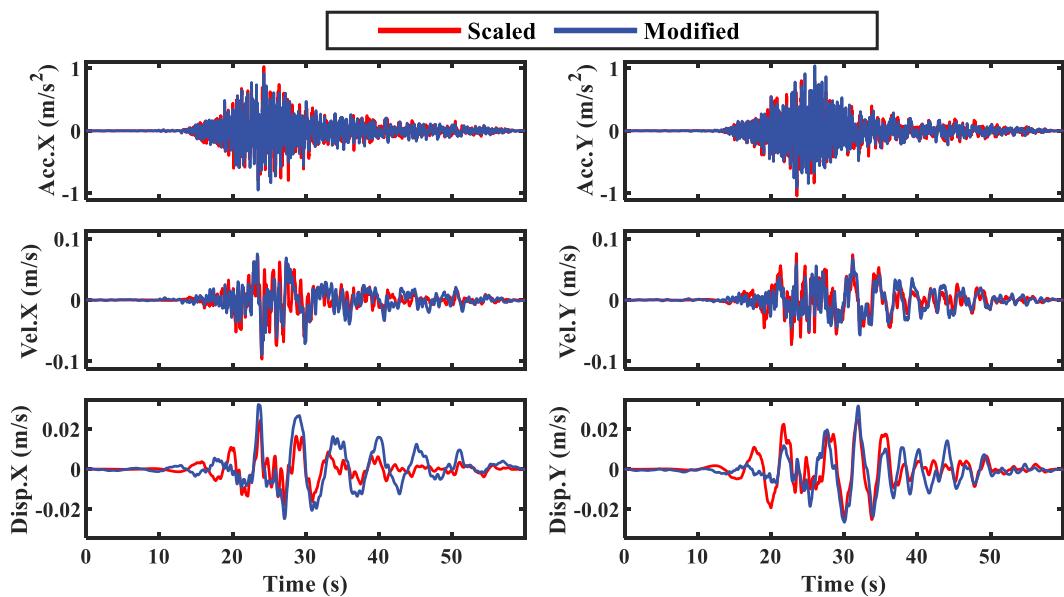
Arias intensity



Radial spectral acceleration pattern (RadSAP)

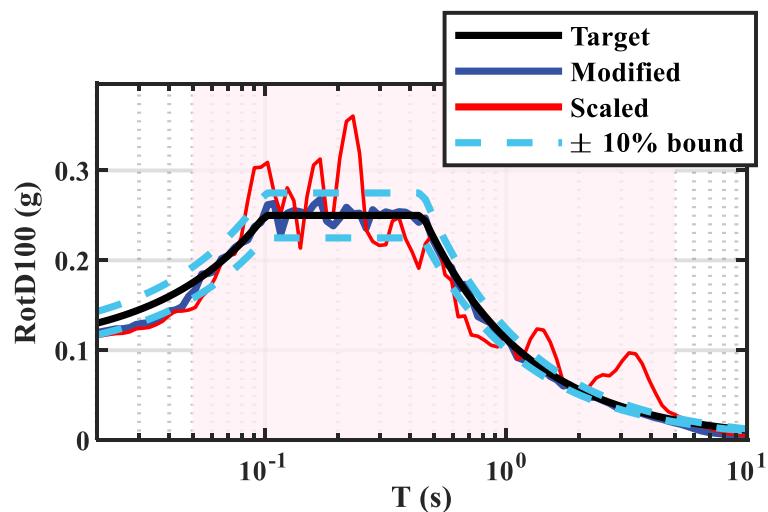


Time history comparison

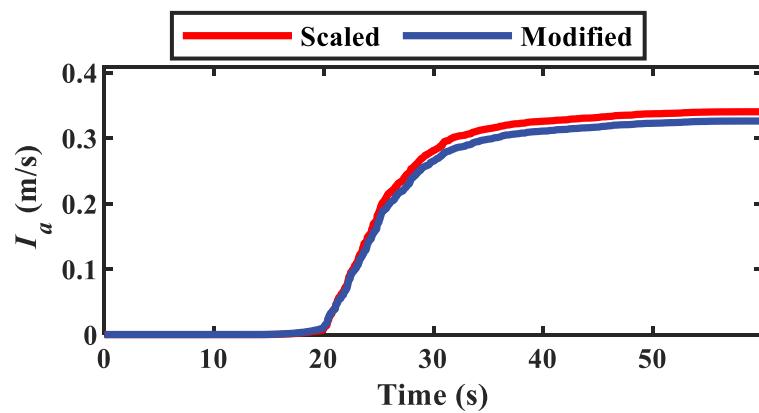


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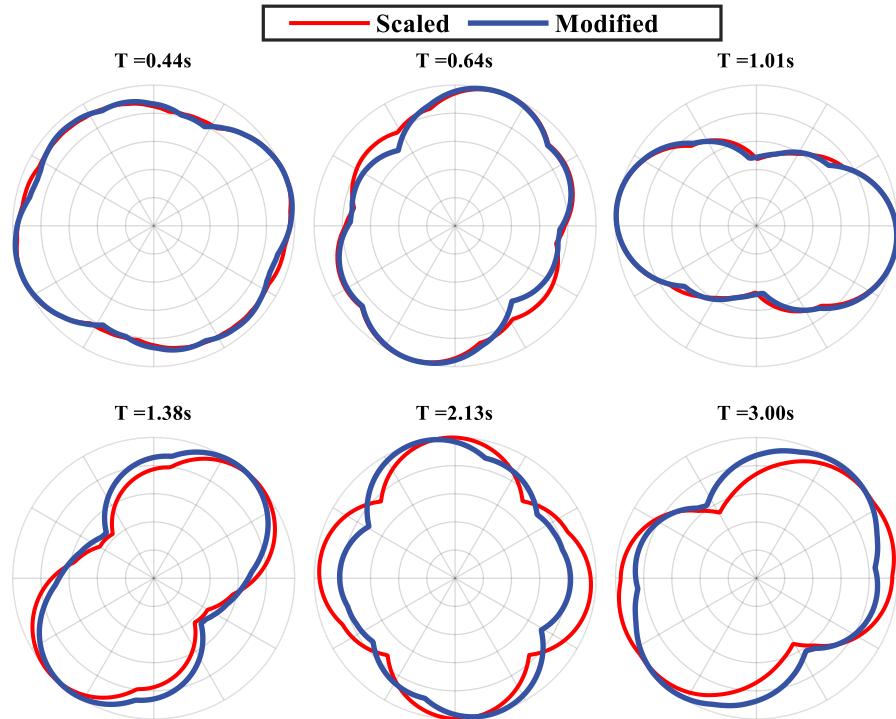
RotD100 response spectrum



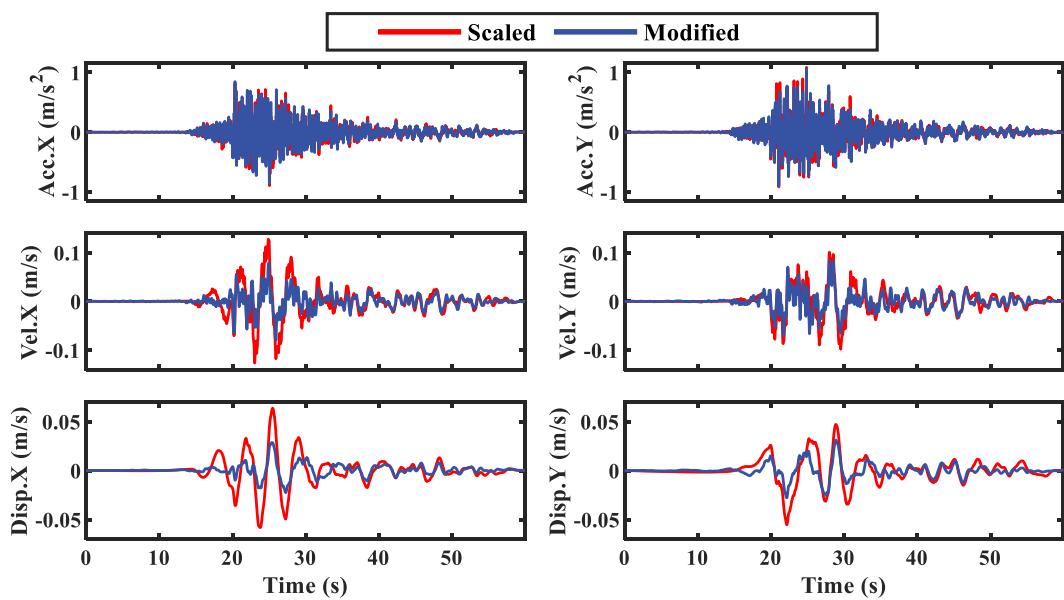
Arias intensity



Radial spectral acceleration pattern (RadSAP)

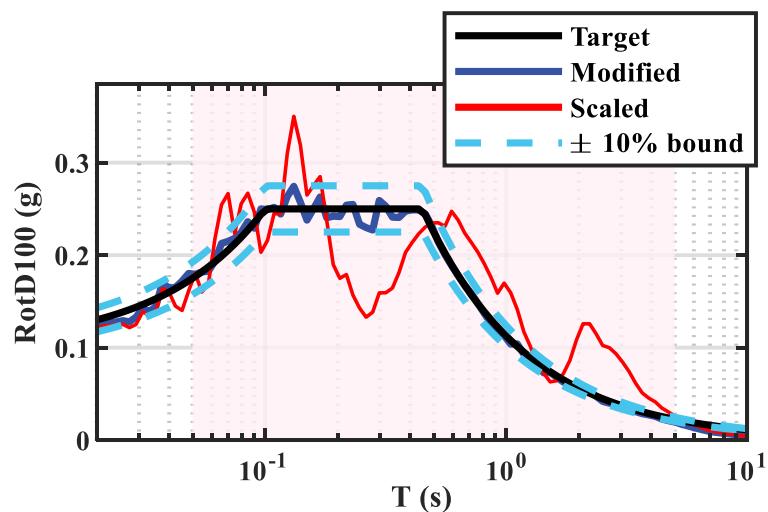


Time history comparison

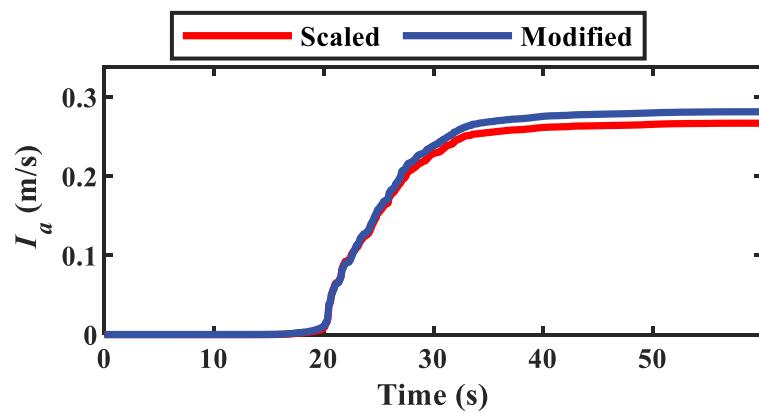


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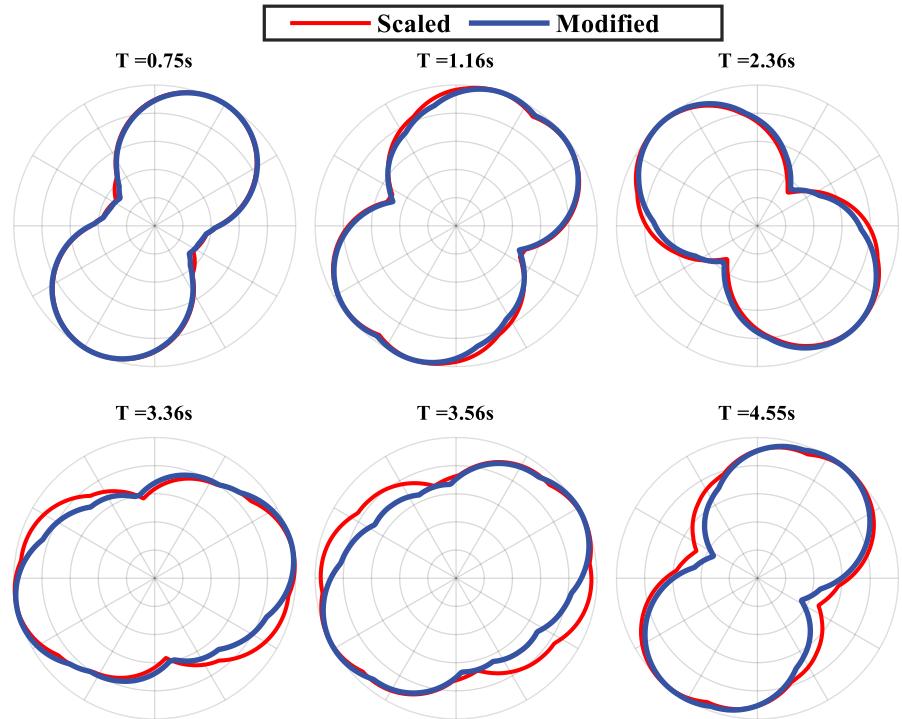
RotD100 response spectrum



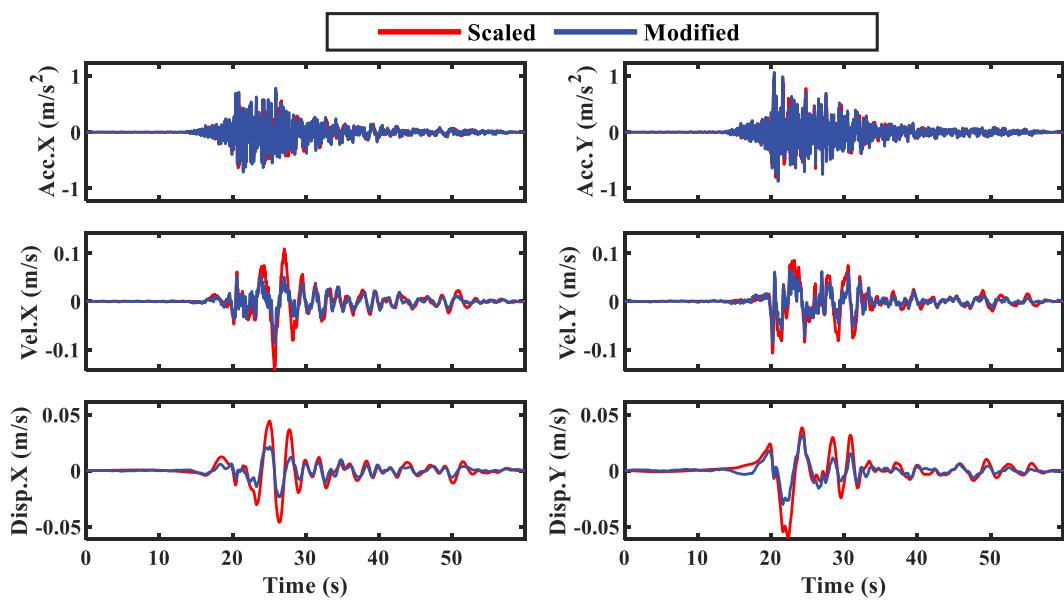
Arias intensity



Radial spectral acceleration pattern (RadSAP)

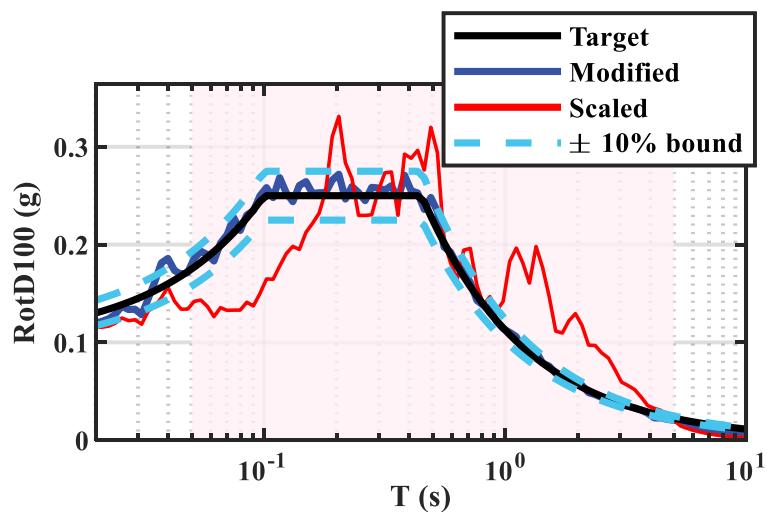


Time history comparison

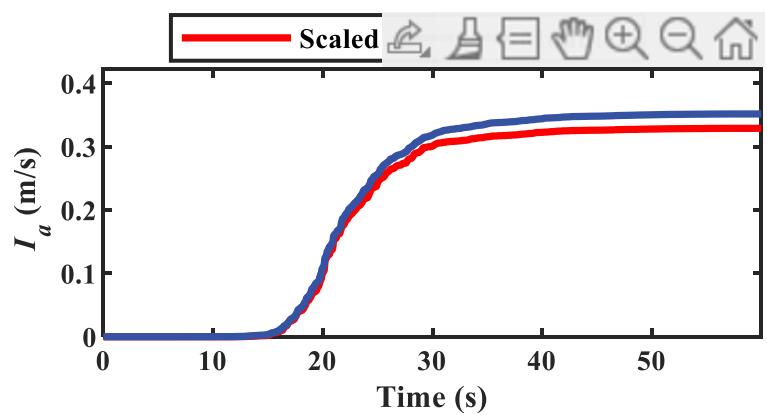


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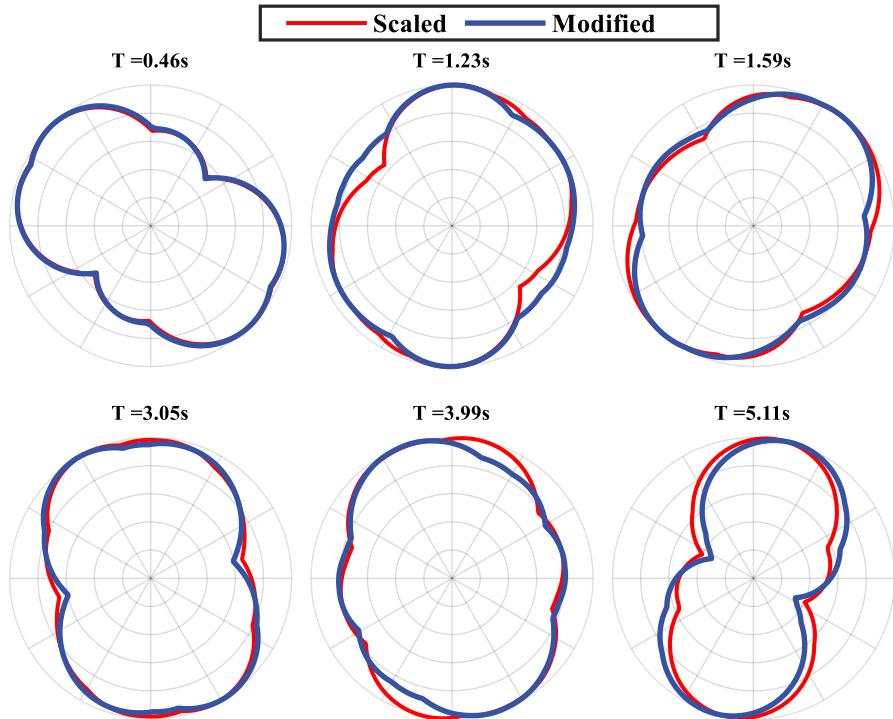
RotD100 response spectrum



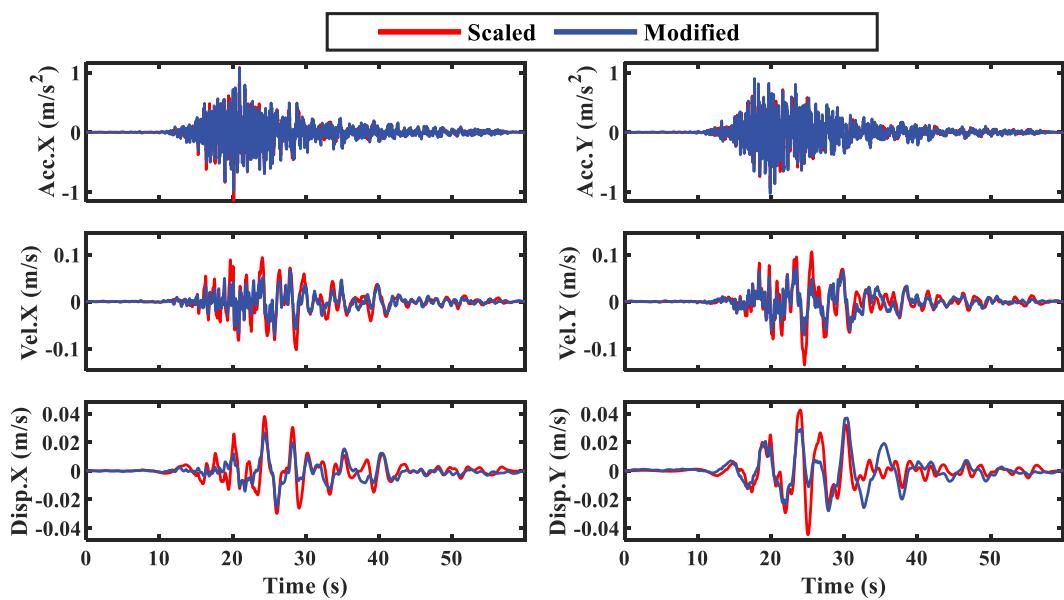
Arias intensity



Radial spectral acceleration pattern (RadSAP)

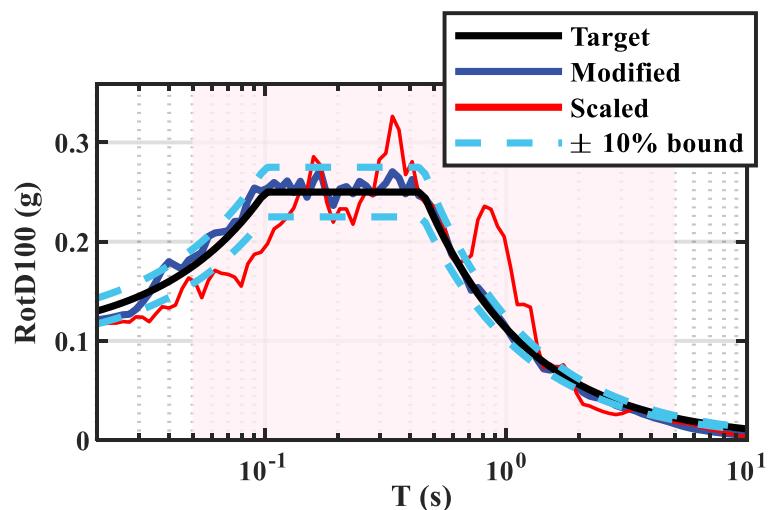


Time history comparison

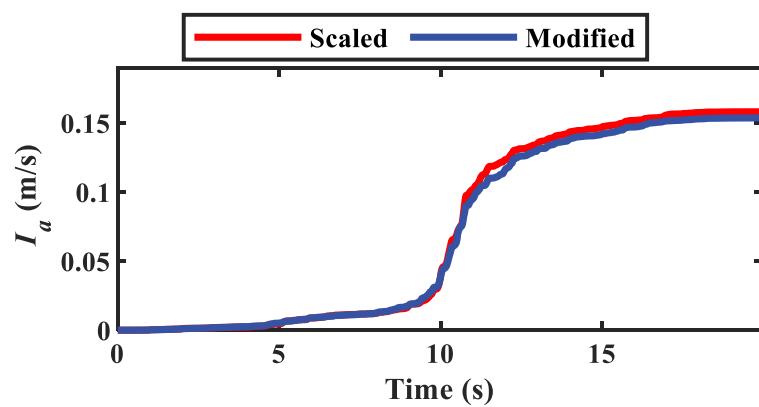


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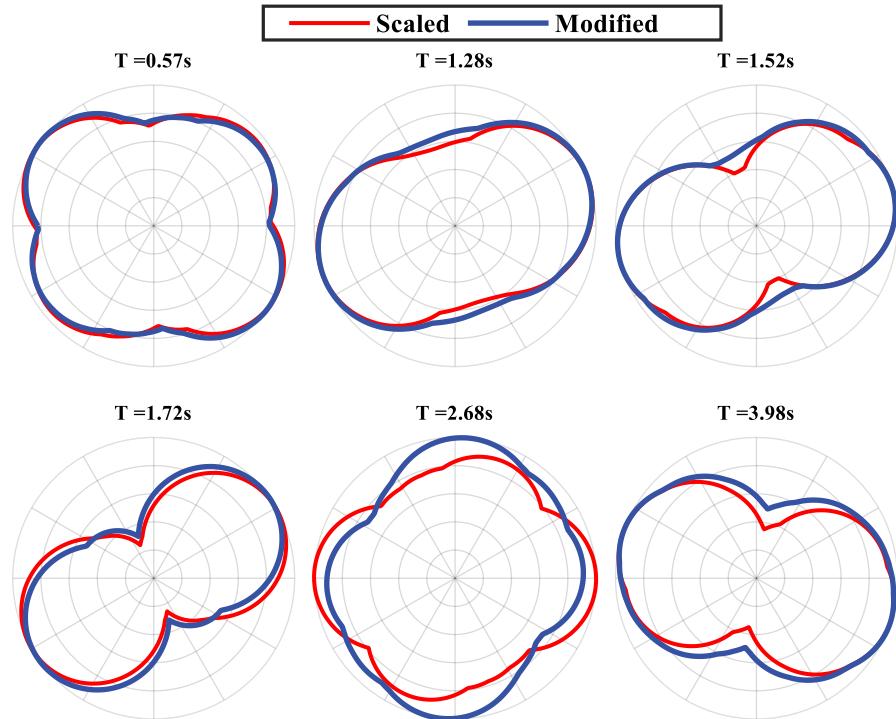
RotD100 response spectrum



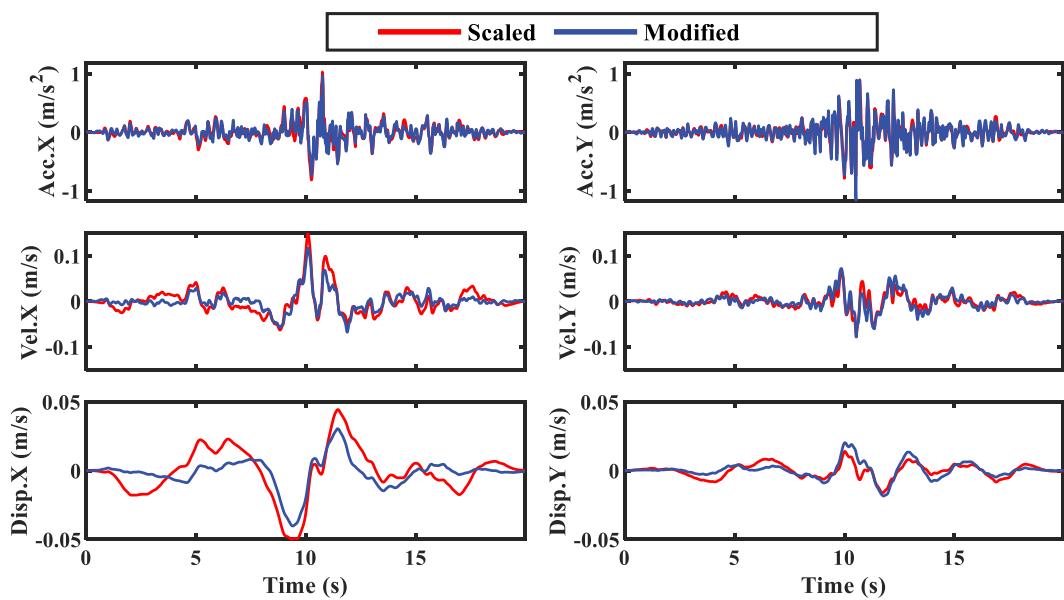
Arias intensity



Radial spectral acceleration pattern (RadSAP)

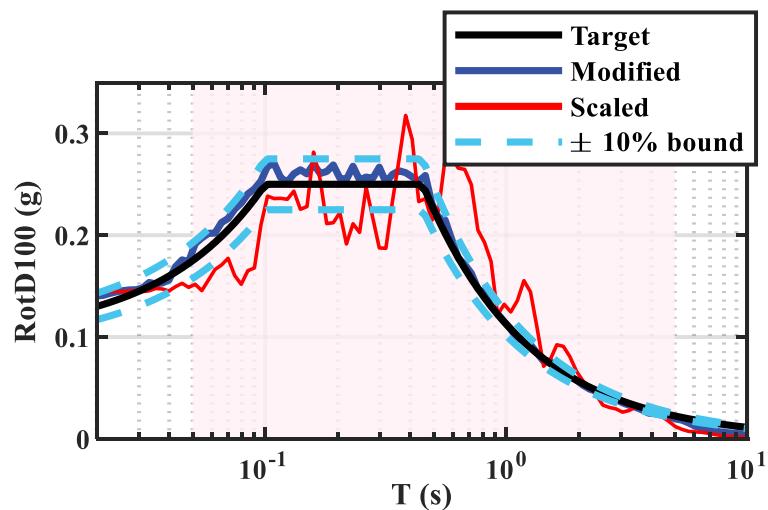


Time history comparison

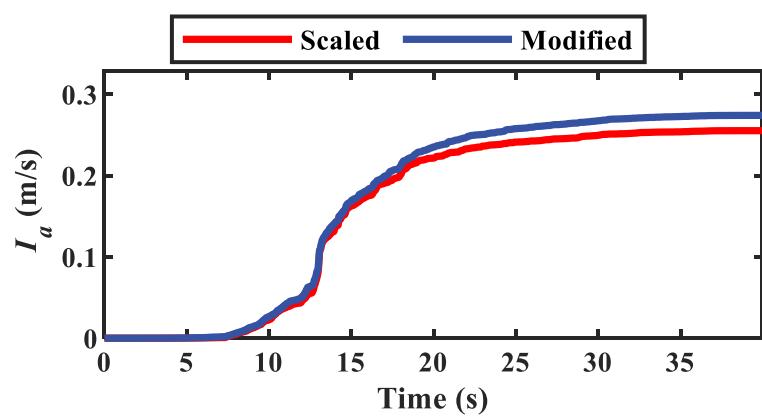


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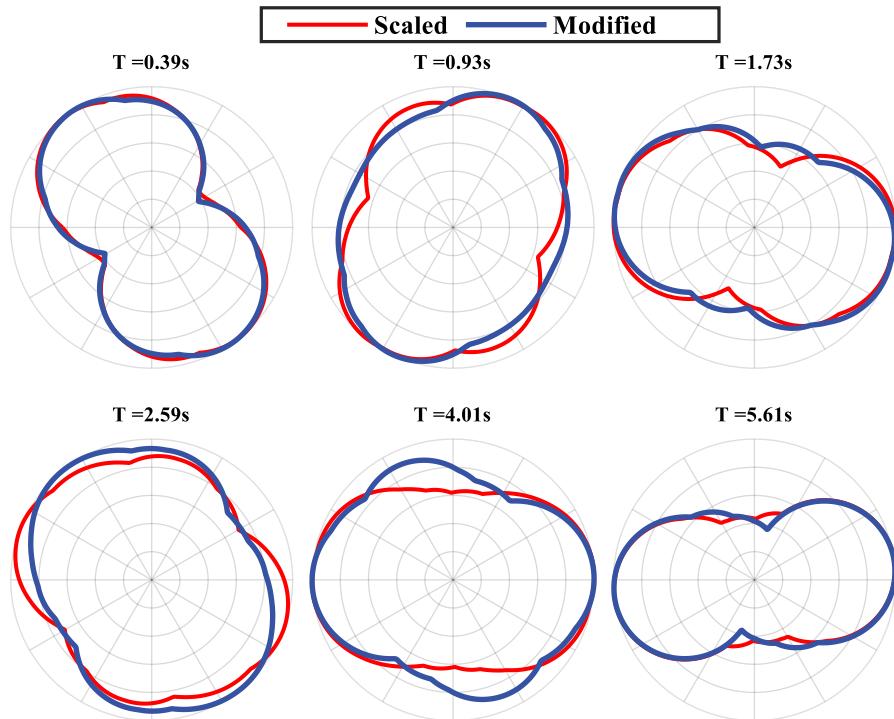
RotD100 response spectrum



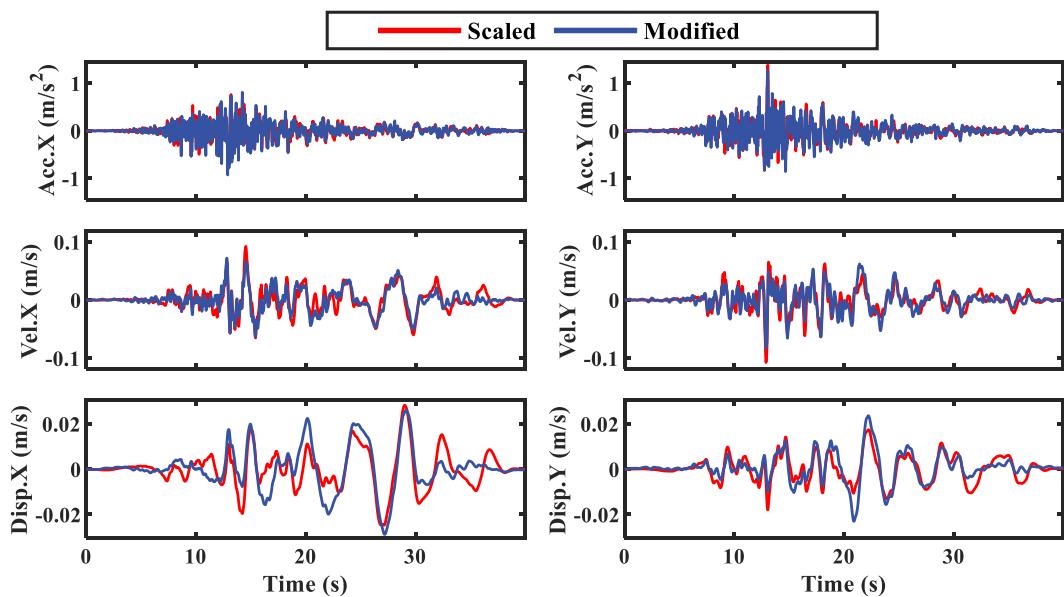
Arias intensity



Radial spectral acceleration pattern (RadSAP)

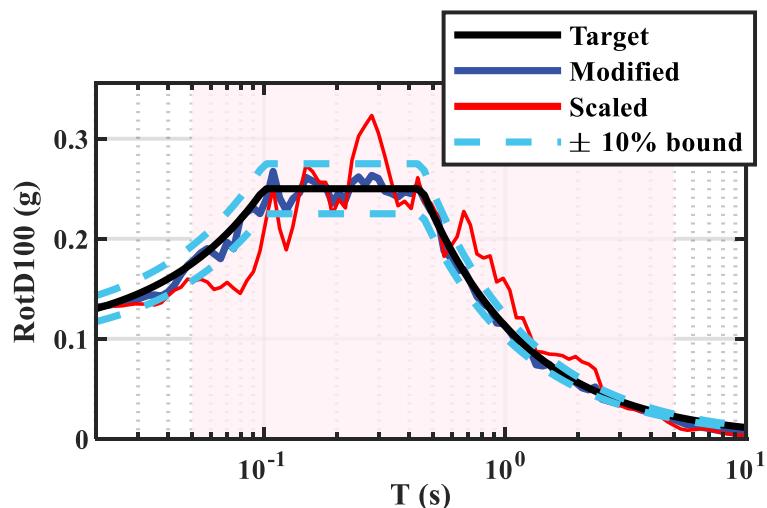


Time history comparison

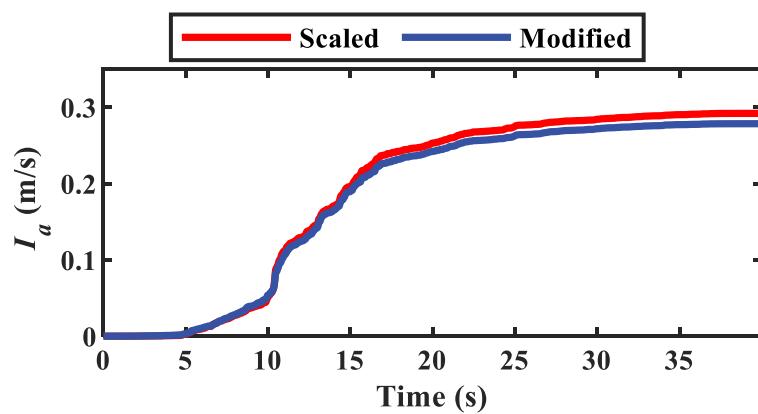


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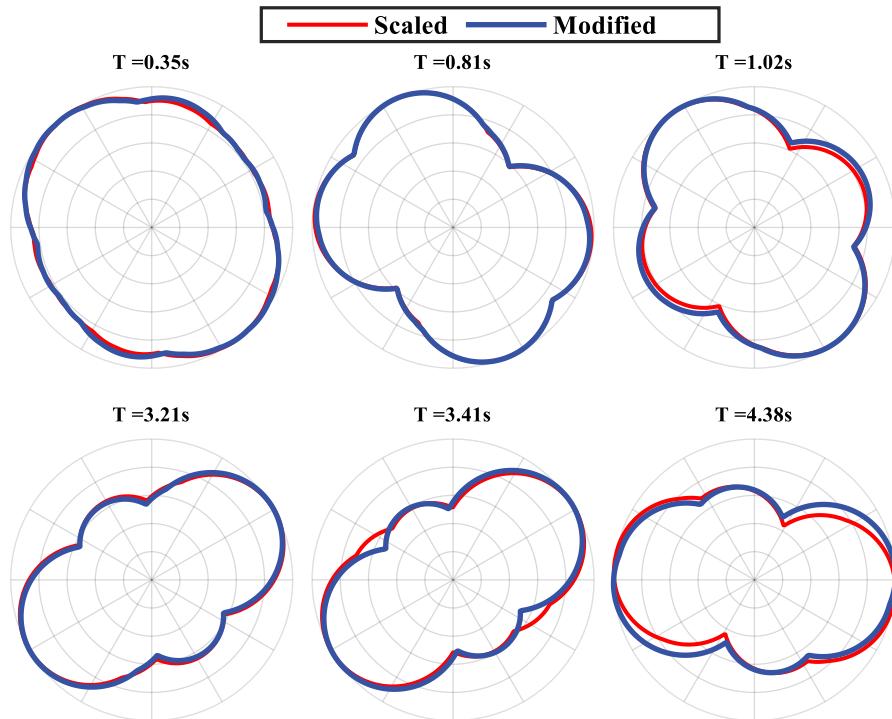
RotD100 response spectrum



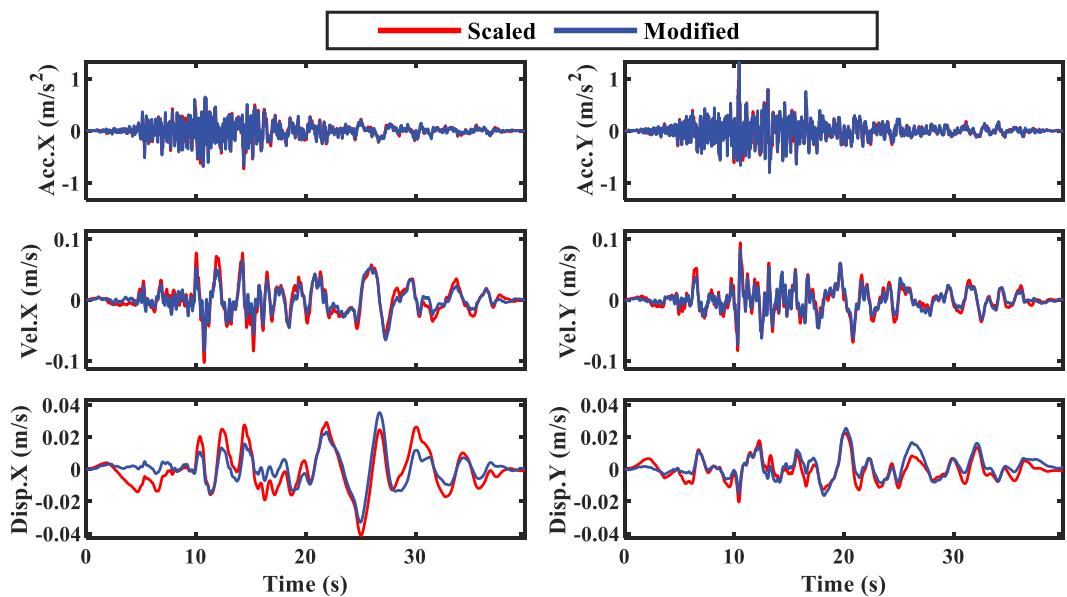
Arias intensity



Radial spectral acceleration pattern (RadSAP)

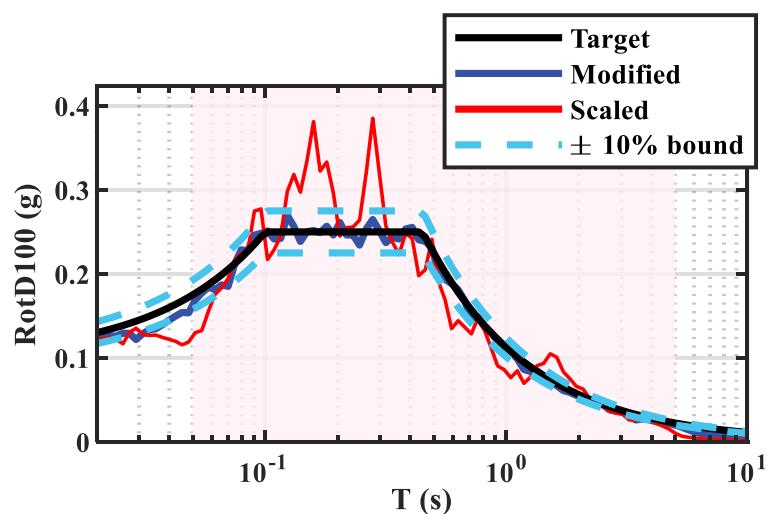


Time history comparison

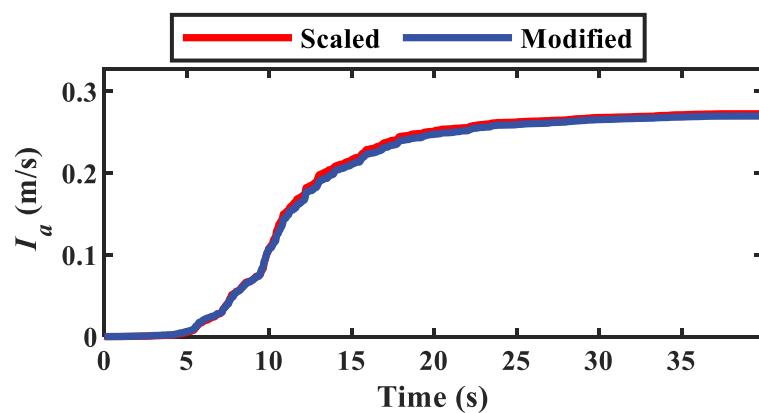


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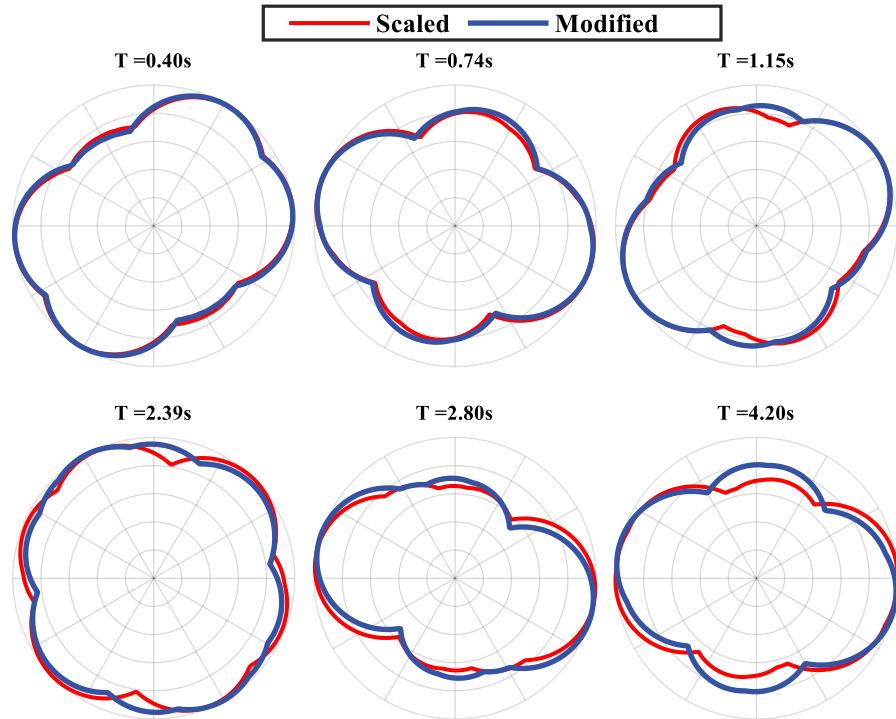
RotD100 response spectrum



Arias intensity



Radial spectral acceleration pattern (RadSAP)



Time history comparison

