

# Visualizing Earthquake Simulation Data

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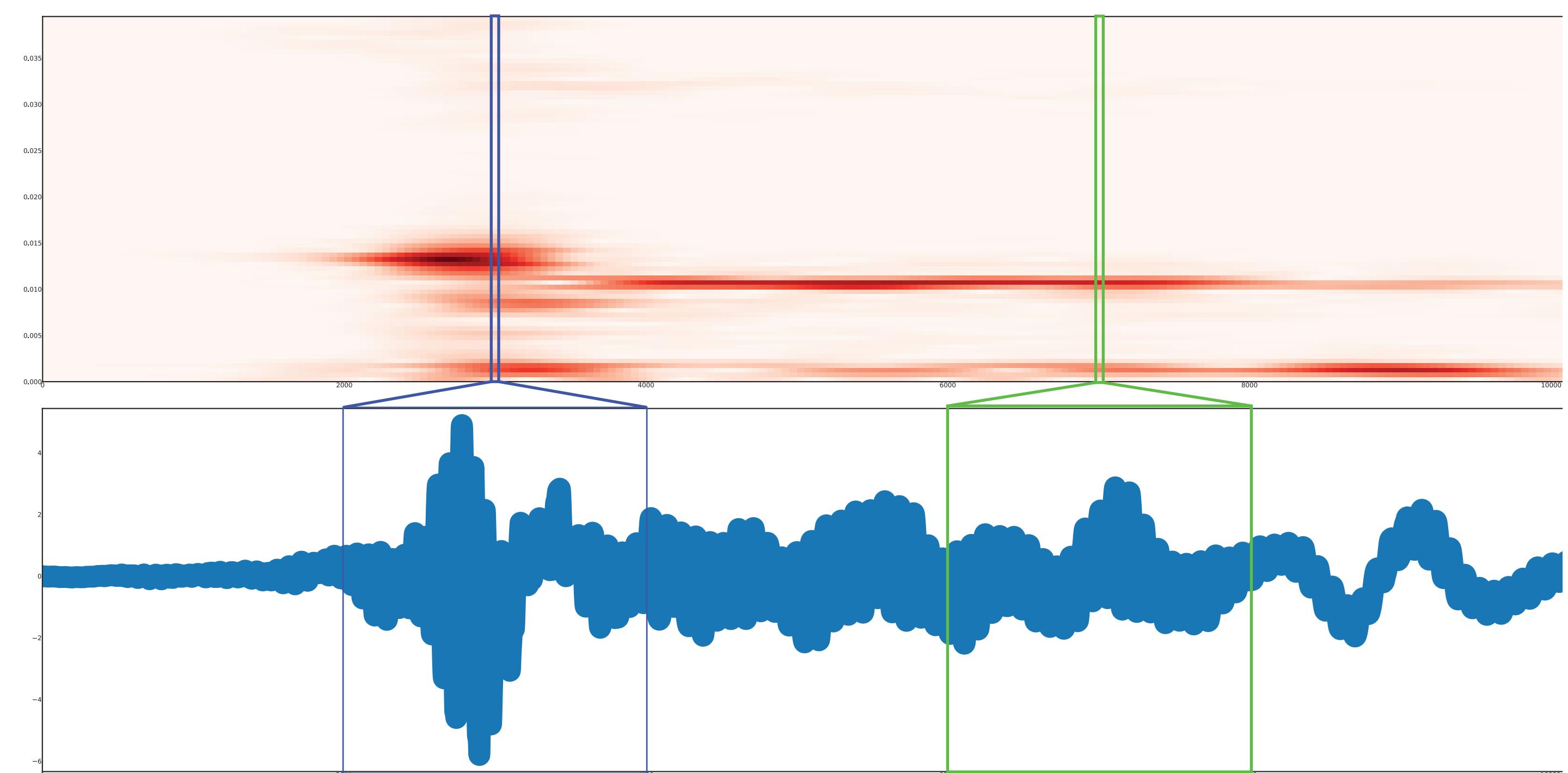
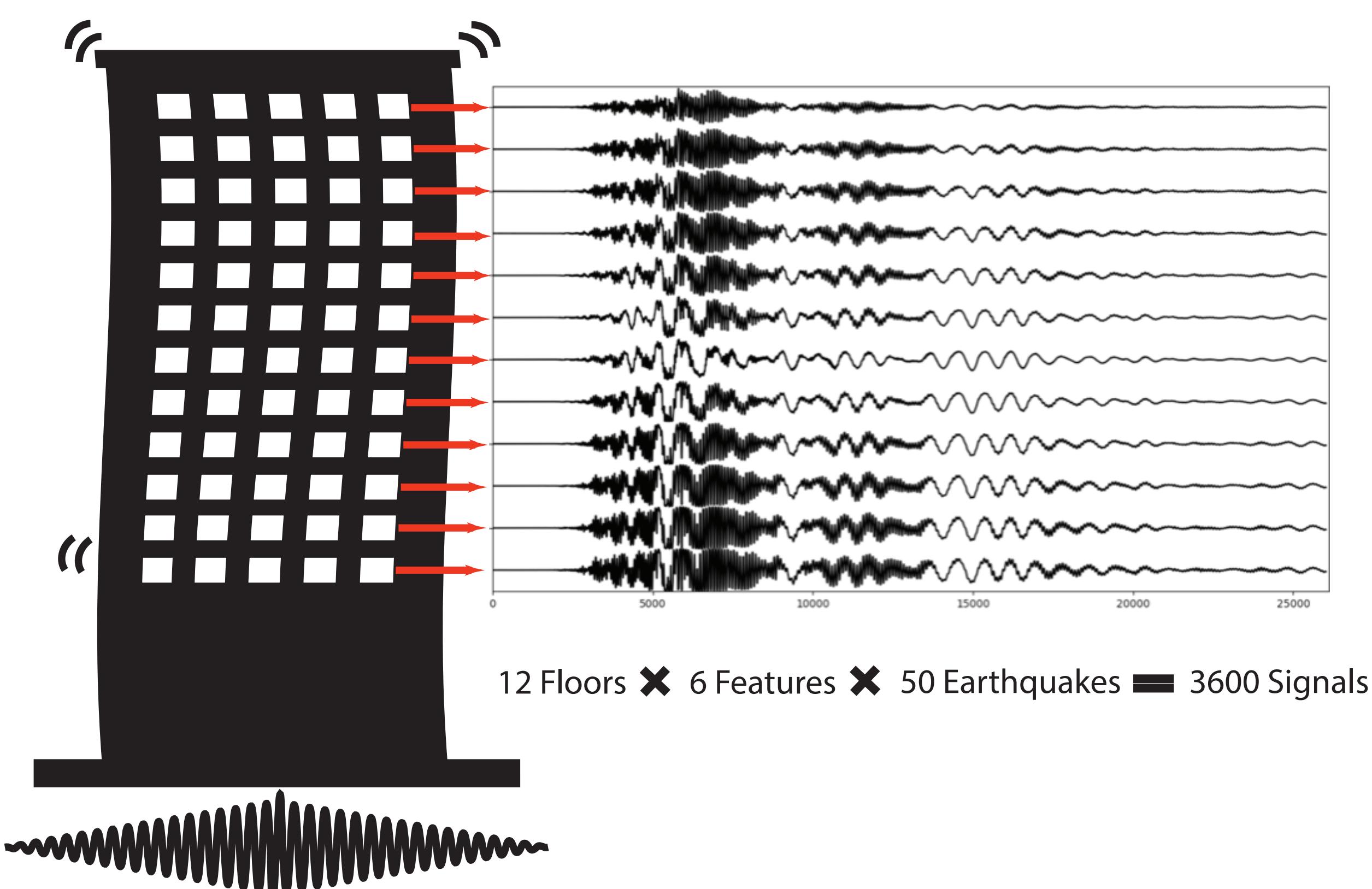
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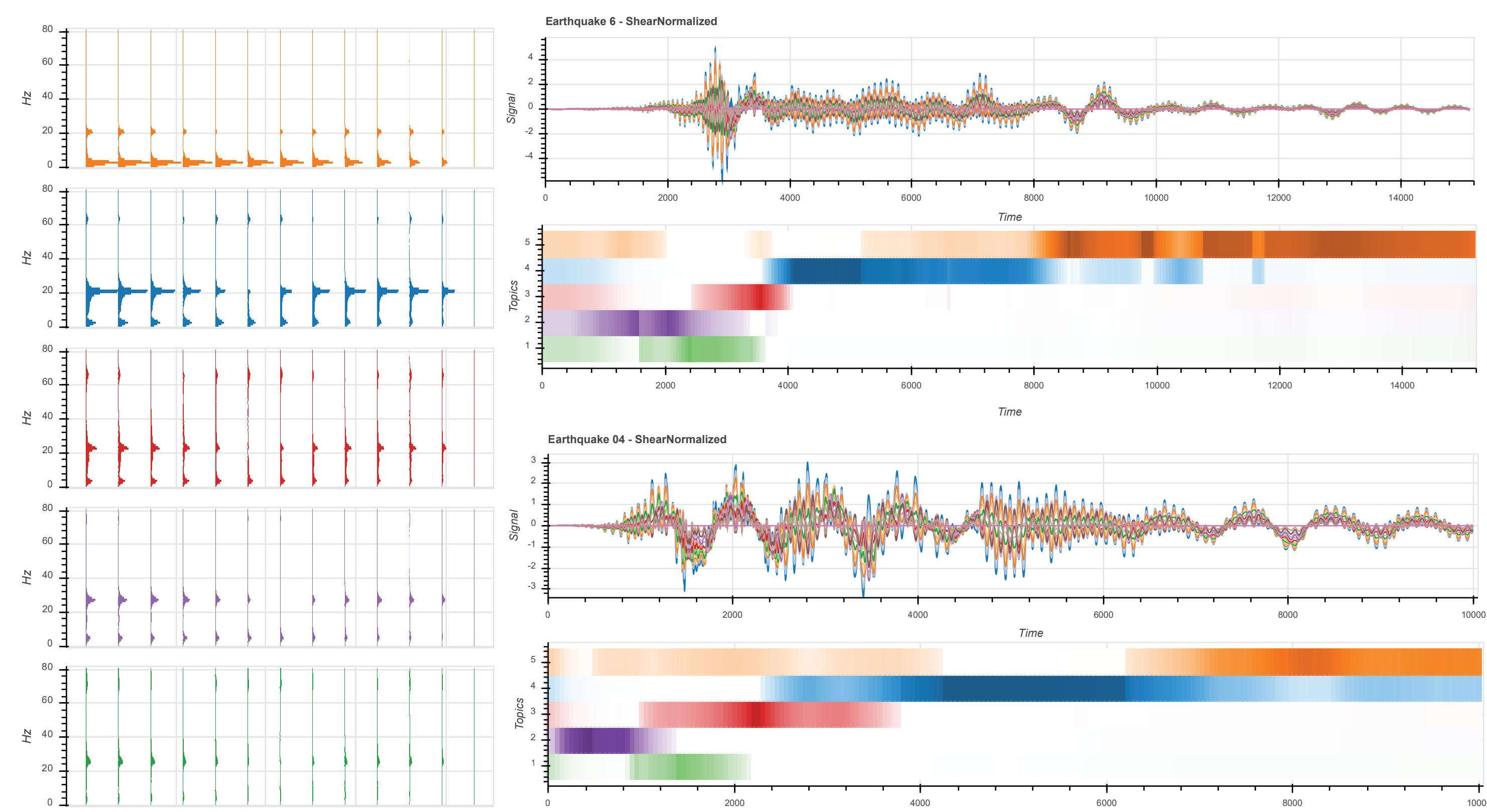
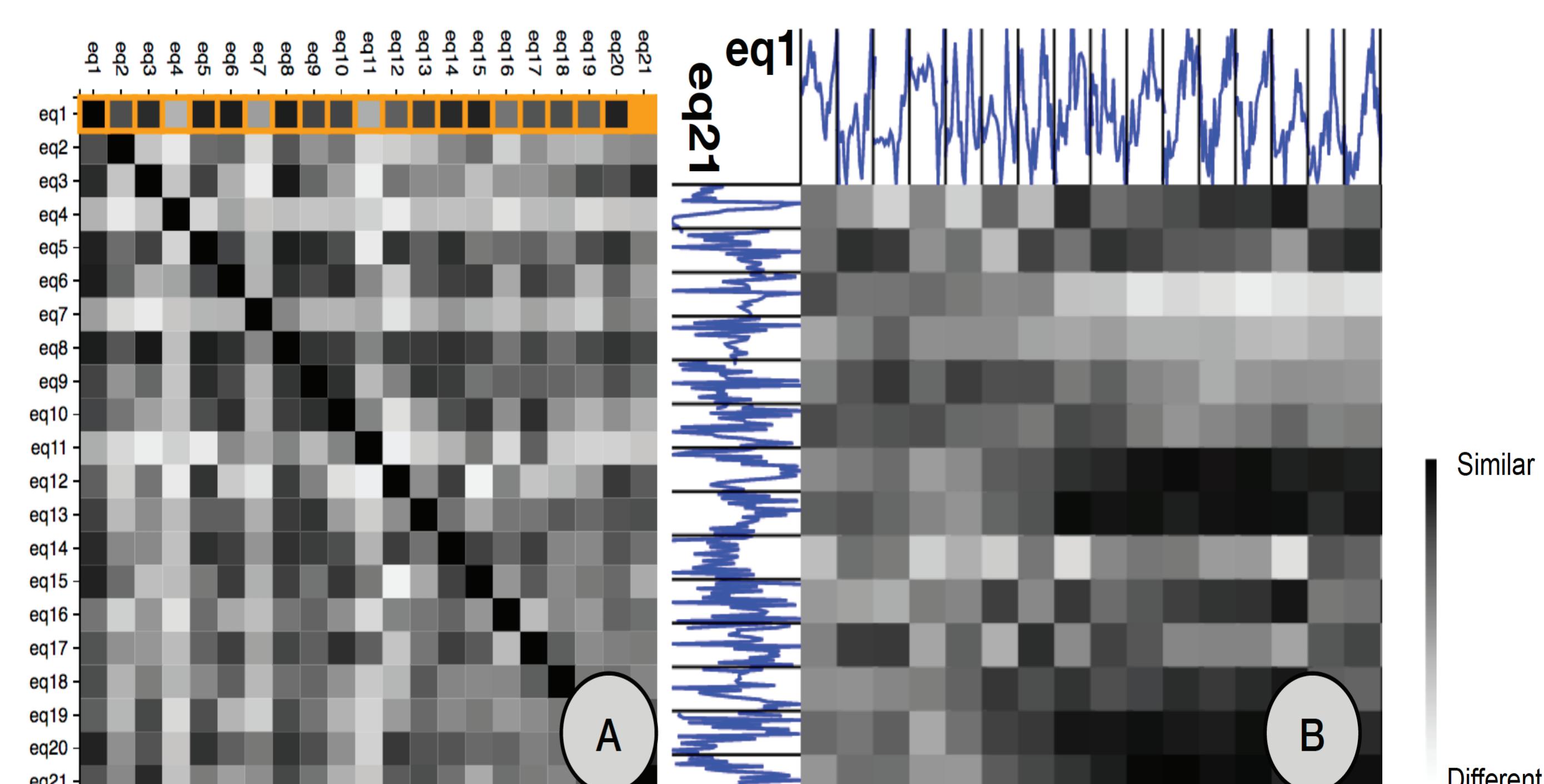
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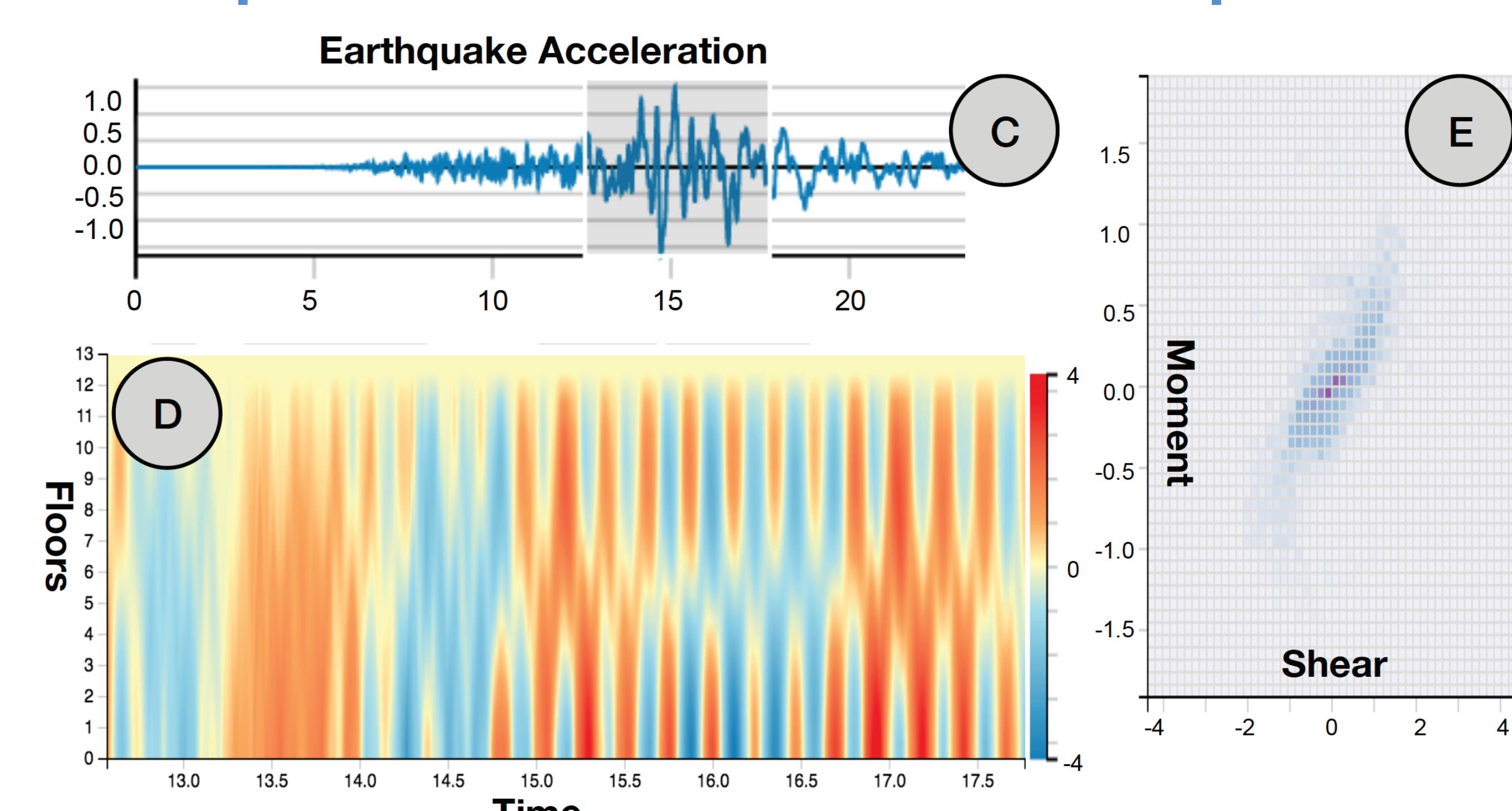
## Problem



## Comparisons across earthquakes



## Comparisons within earthquakes



## Topic modelling identifies time-varying multisignal evolution!

Our methodology applies topic modelling to the context of signal analysis where:

- Words are frequencies
- Documents are multi-signal segments

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## References

- [1] Blei, David M., Andrew Y. Ng, and Michael I. Jordan. "Latent dirichlet allocation." Journal of machine Learning research 3.Jan (2003): 993-1022.