Correlation of three-dimensional variations of seismic Moho with tectonic terranes in eastern North America

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Motivations

- The subsurface distribution of the tectonic terranes is poorly constrained.
- To explore the correlations between the geologically-defined surface terranes and seismically-defined Moho variations.
Distribution of Stations and Events

Earthquakes
- 1835 events
- 2010.1 – 2017.11
- Magnitude > 5.5
- Epicenter distance: 30° – 95°
Examples of RFs
Correlations between $P_m$'s Arrivals, Gravity and Terranes
Spatial offset between Moho gradient and surface terranes in the northern Appalachians
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