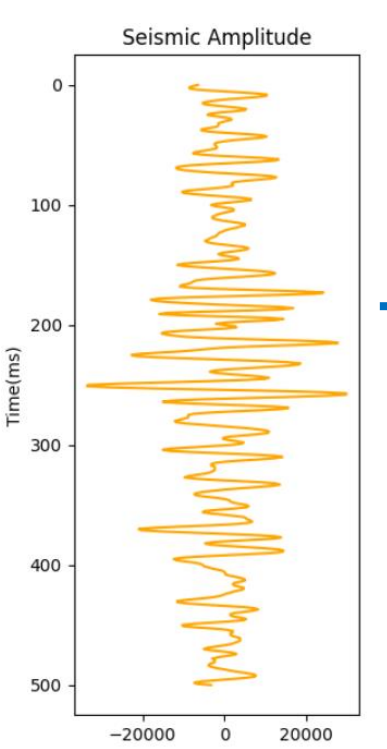

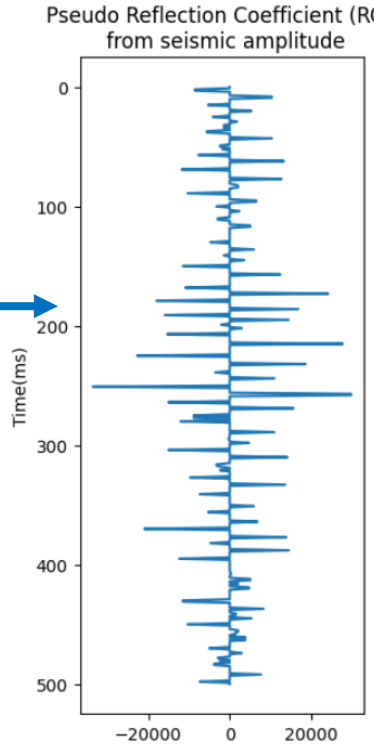

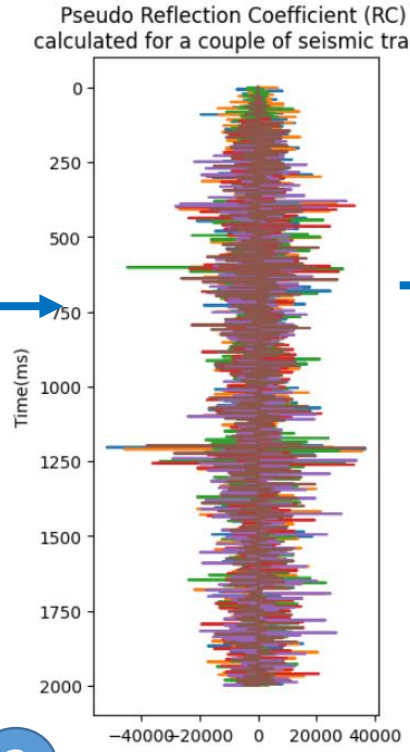

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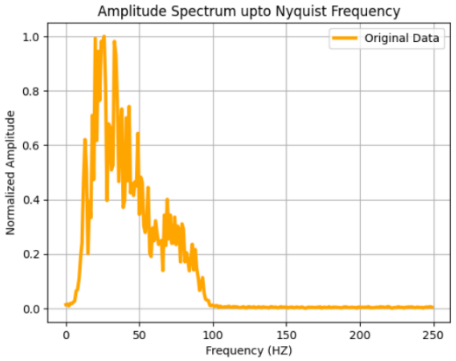

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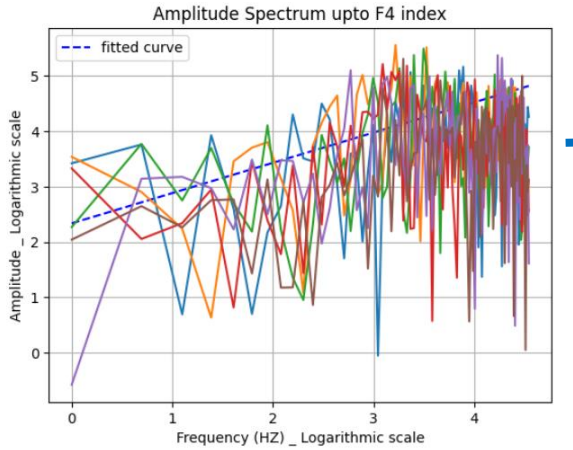
Description: Next slide

3 4



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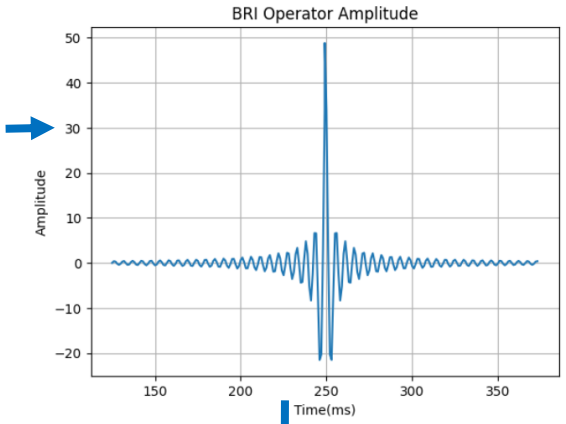

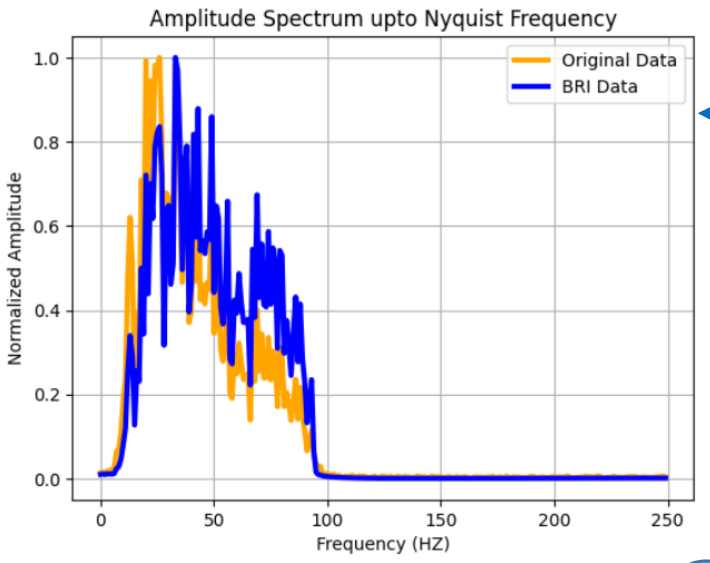

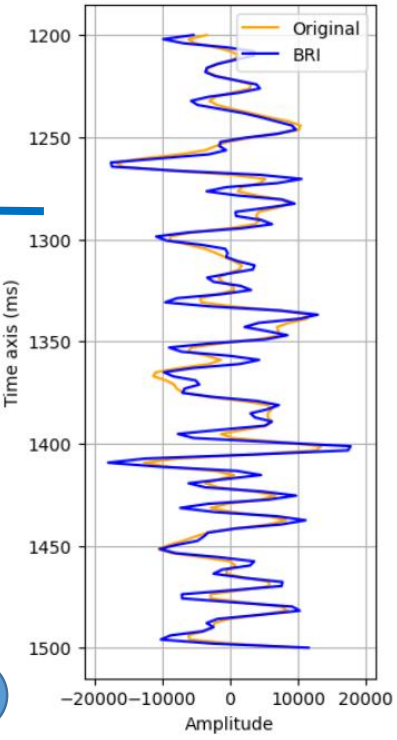

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6

Seismic Spectral Enhancement using Blueing Reflectivity Integration (BRI) Technique proposed by Babasafari et al., 2016

Blueing Reflectivity Integration (BRI) method aims to produce the same results as seismic spectral blueing, where there is not any acoustic impedance log available to create reflection coefficient log. So, by leveraging seismic traces, so-called pseudo Reflection Coefficient (RC) are extracted from local maximum or minimum along seismic traces by calculating amplitude for zero first derivative. The rest of the steps are similar to Seismic Spectral Blueing.
In addition, the function of creation RC from log is available in BRI main class but not included in BRI GUI for front-end purpose.

Steps:

1. Calculating mean amplitude spectrum of seismic data reflectivity series in the frequency domain
2. Obtaining pseudo Reflection Coefficient (RC) derived from seismic data
3. Fitting a curve on amplitude spectrum of logarithmic reflection coefficient
4. Multiplication of mean amplitude spectrum of seismic data by fitted Blue spectra
5. Taking inverse Fourier Transformation of BRI spectra to bring back the data to the time domain (BRI operator)
6. Convolving seismic amplitude with BRI operator
7. Quality control steps