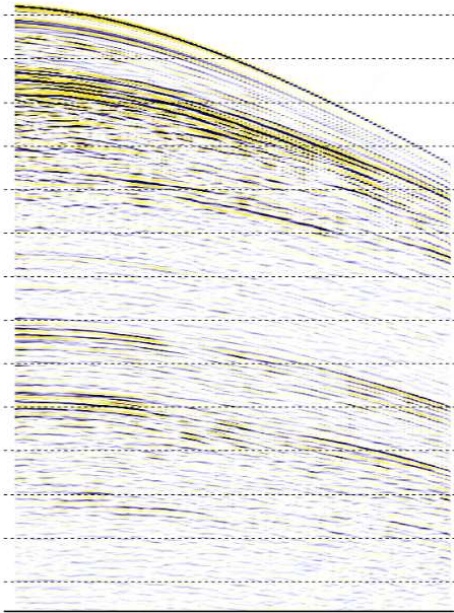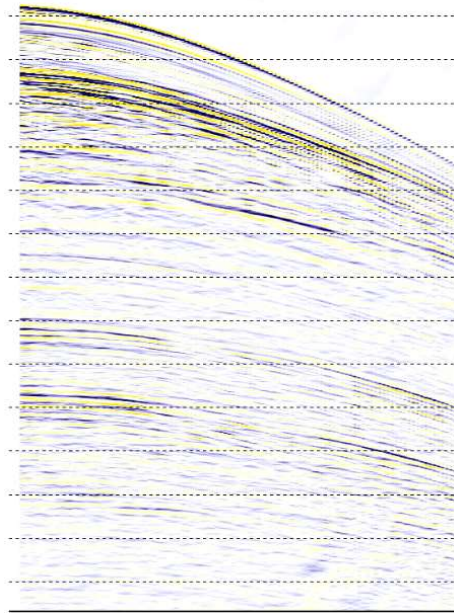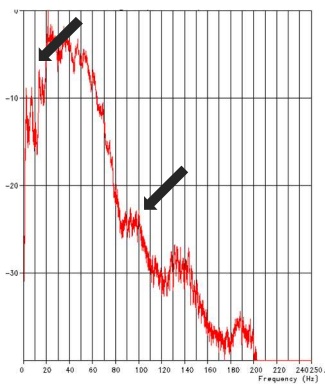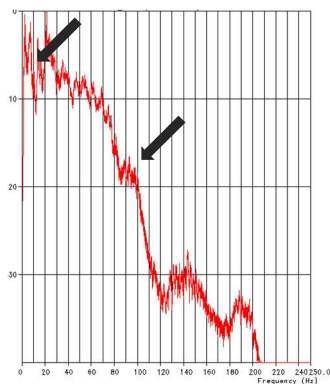# Broadband Processing

Input Shot

Deghost Shot

As companies strive to extract more information from new and vintage marine acquisition the phenomena of the source and cable ghost needs to be compensated for.
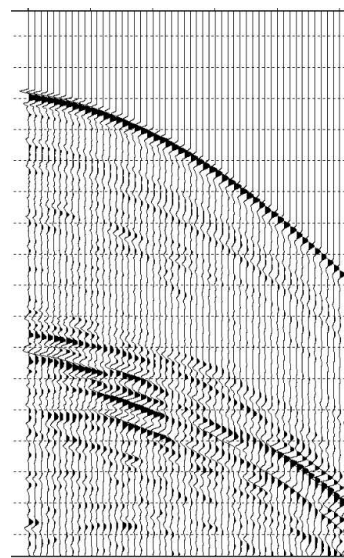
The ghost reflection not only impacts the higher frequencies by introducing notches, but also causes a loss of amplitude at lower frequencies. These lower frequencies are essential for broadband processing and subsequent inversion attribute analysis.
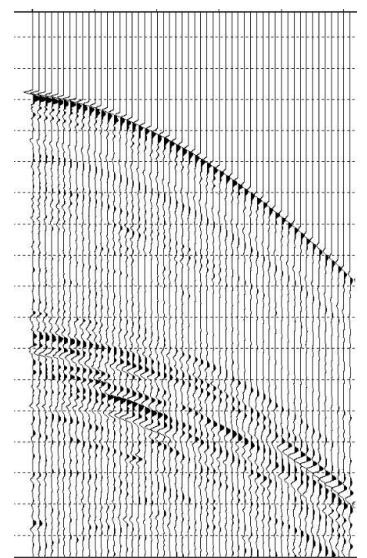

Spectrum Input Shot

Spectrum Deghost Shot

Input Shot

Deghost Shot

Implementing Emerson's algorithm, either in the X-T or Tau-P domains, and by knowing the acquisition parameters of source and cable depth we can obtain the ghost free wavefield.