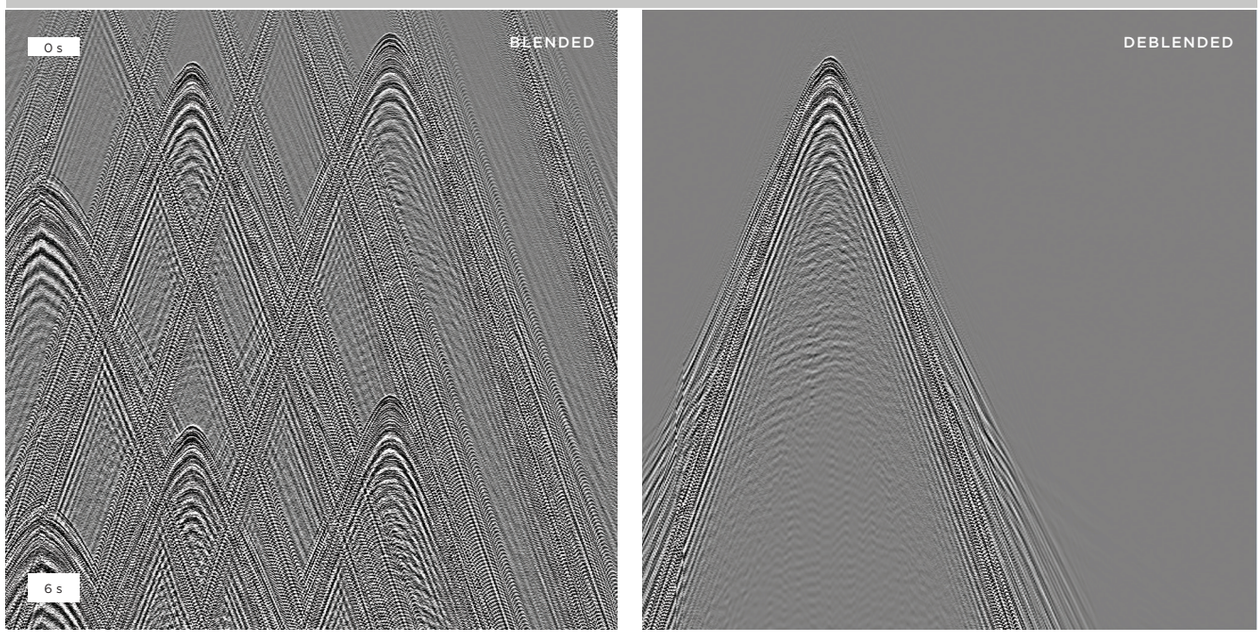
DUG Deblend

Realise the full potential of blended acquisition without compromising data quality or amplitude fidelity with our inversion-based deblending algorithm.

Blended seismic acquisition offers improved spatial sampling and increased acquisition efficiency through the use of additional sources and/or reduced source spacing. However, overlapping shots require separation so that they appear as if they have been acquired with no overlap at all. The simple objective of the DUG Deblend inversion algorithm is to explain all the input data as unblended records so that when re-blended they will accurately reproduce the input. We have developed an industry-leading inversion-based algorithm that performs exceptionally well to recover both weaker and stronger parts of the wavefield even in the most extreme of circumstances. In addition, DUG Deblend is able to handle seismic interference so that multiple acquisition campaigns can operate simultaneously, further increasing efficiency.

MULTI-VESSEL, MULTI-SOURCE DEBLENDING



01. In this OBN example, three triple-source vessels were firing within 15 km of each other. Images courtesy of AGS and TGS.

PROVING THE EFFICACY OF DUG DEBLEND

02. These land shot records demonstrate the results of DUG Deblend (centre) as applied to blended data (left) compared to data acquired without any interfering shots (right). The non-blended dataset provides a powerful comparison highlighting the efficacy of our deblending solution. Images courtesy of Apache.