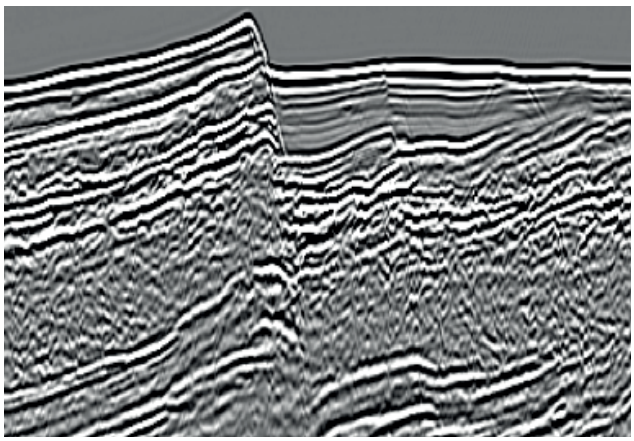
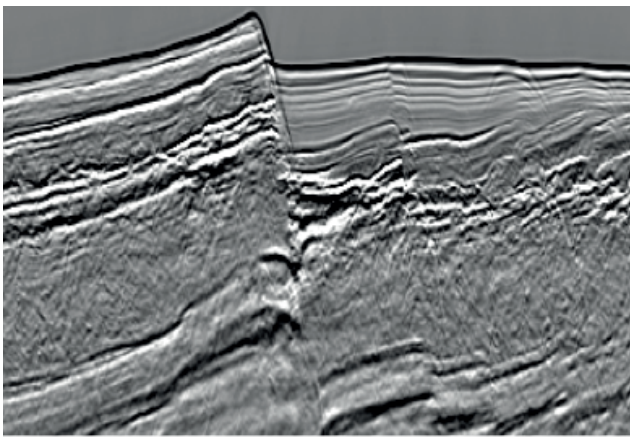
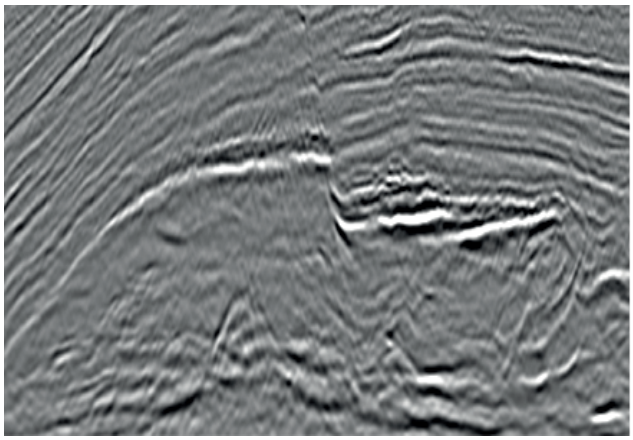
SHarp Broadband Processing

The Shearwater SHarp Broadband processing provides enhanced bandwidth for all streamer configurations

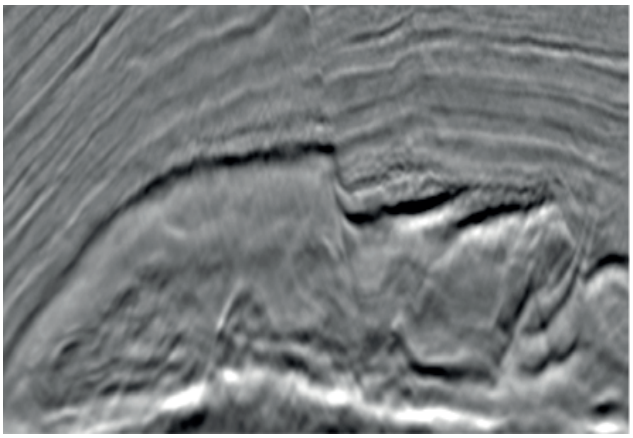
- **Source and receiver**
- **Legacy flat cables**
- **Deep flat cables**
- **Linear slant, curved or irregular depth cables**
- **Calm or rough sea states**





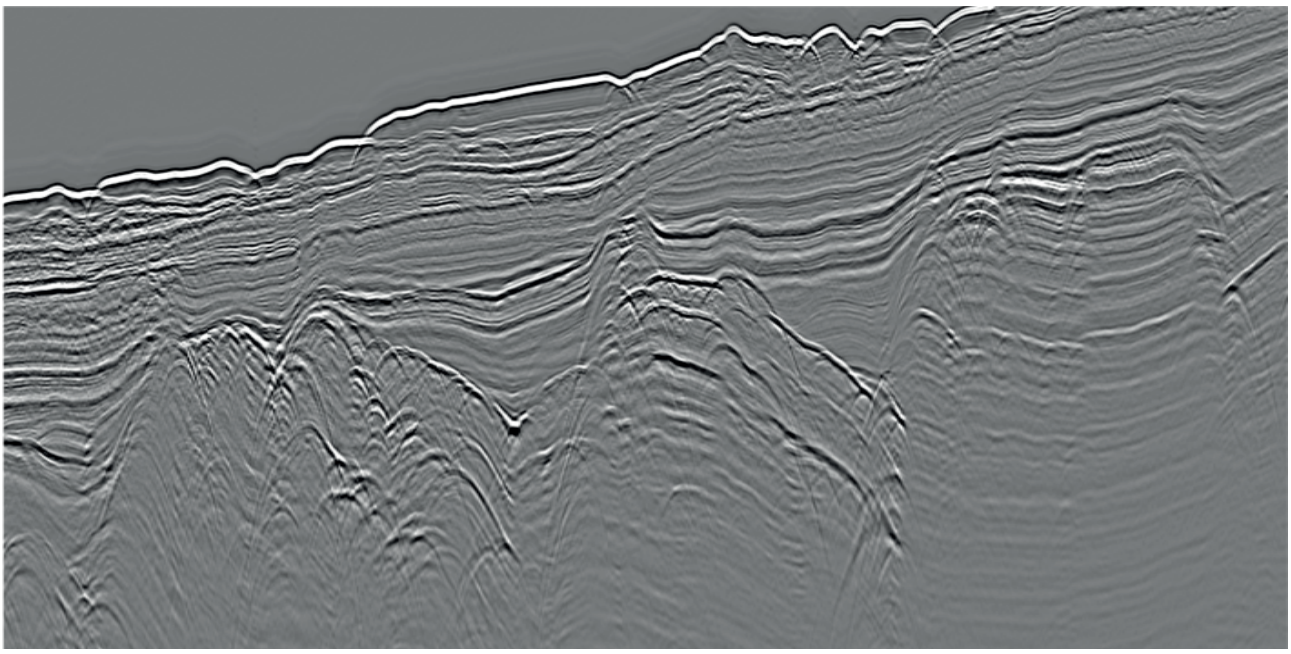


Conventional Processing
(Zoom of Shallow & Deep)
Data courtesy of ENI

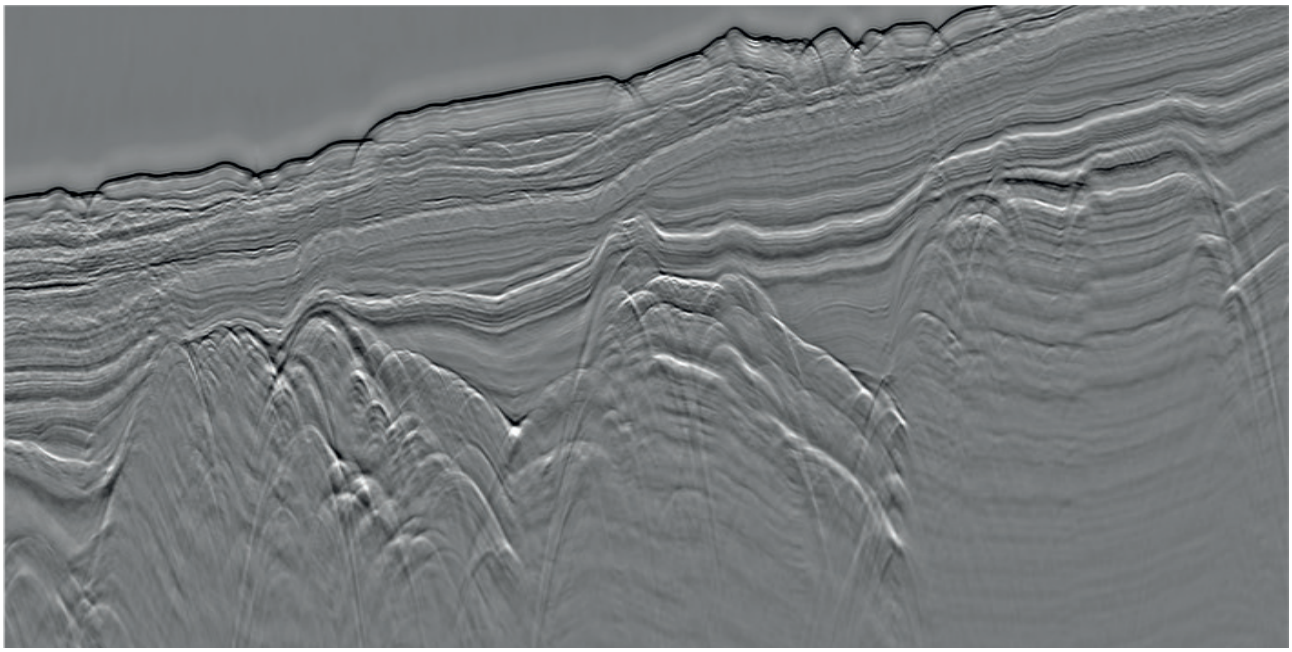


SHarp Processing
(Zoom of Shallow & Deep)
Data courtesy of ENI

The Shearwater SHarp broadband processing sequence, incorporating **SHarp**Sig, corrects for source and receiver ghosts as well as providing accurate source de-signature and de-bubble. The techniques can be applied to any cable configuration and in rough or calm seas.



Conventional Processing, Australia



SHarp Broadband Processing, Australia

SHarp

SHarp Receiver De-ghosting uses 1D or 2D operators that can accurately de-ghost a flat or slanted cable as well as account for the non-linear offset distribution on the outer cables of a 3D spread. Moreover, a frequency dependent, sea surface reflection coefficient can be selected.

SHarpSig

SHarpSig incorporates source zero phasing, de-bubble and de-ghosting into a single operator derived from the recorded near field hydrophone data. The algorithm explicitly accounts for bubble motion resulting in more accurate amplitude and phase down to the lowest frequencies.

SHarpVS

SHarp Variable Sea State Receiver De-ghosting uses phase-shift extrapolators between non-planar interfaces to account for irregular cable depths as well as a rough sea state.

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