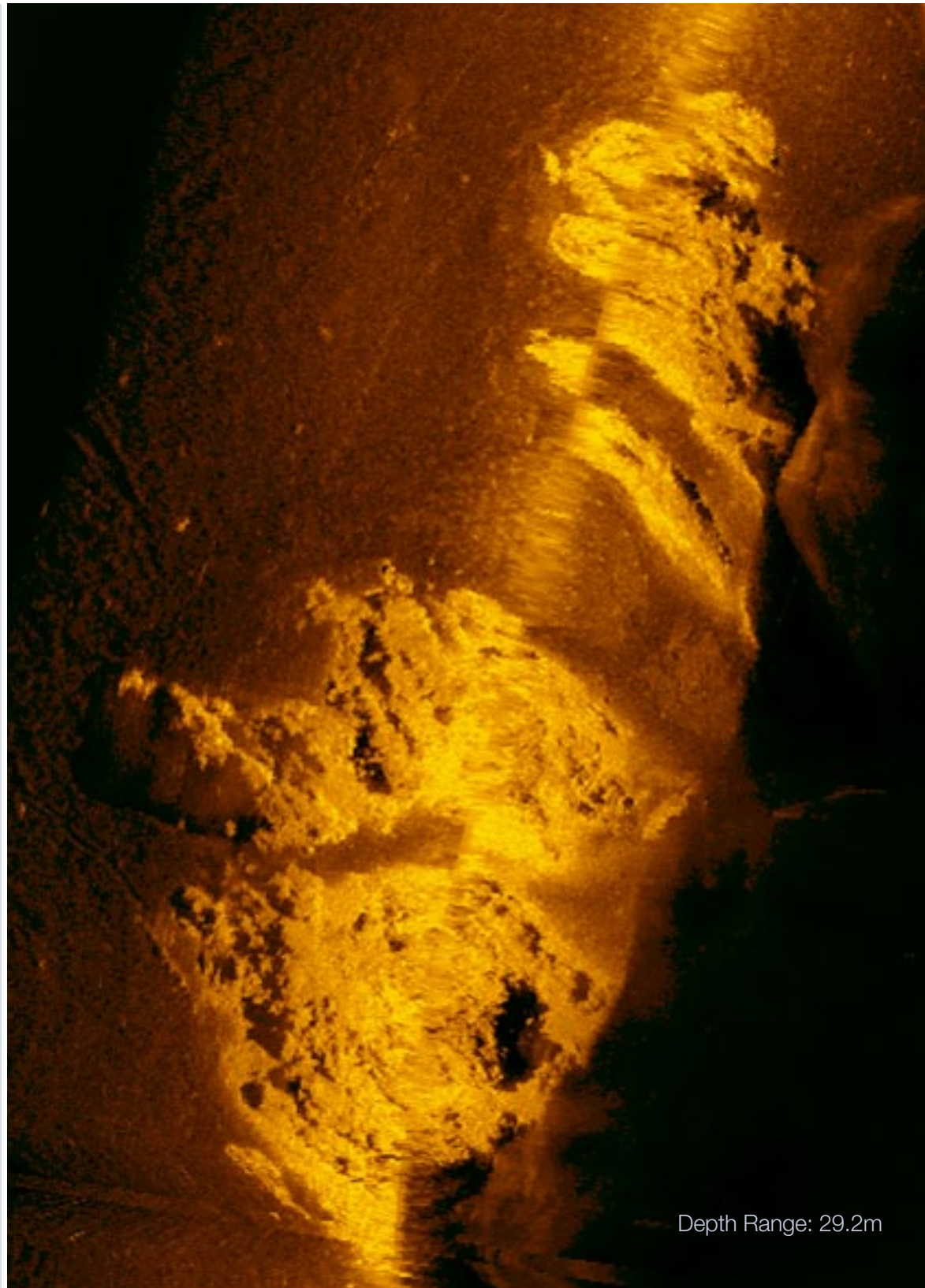


TruePix™ Backscatter Imagery



From R2Sonic, pioneers of wideband high resolution shallow water Multibeam Echosounders

Multibeam
Backscatter
never looked
so good.



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TruePix™

Utilizing the narrow beams from Multi Beam Echo Sounders (MBES) for the formation of backscatter imagery offers a significant improvement in multi-path and noise suppression. The time series output centered around bottom detection points, often referred to as Snippets, was a big step forward in imagery quality, but it also presented some drawbacks. **TruePix™** is a process that is independent from bottom detection, and the preassembled record is space efficient and yields uniform results across imagery processing platforms.

TruePix™ processing comes with a number of advantages:

TruePix™ processing is independent from MBES bottom detection, and thus can be used in MBES data editing to determine whether data points are outliers or real. Snippet data are centered around the bottom detection points, so the standard procedure is to edit out snippets related to outliers, potentially creating holes in the imagery data.

TruePix™ assembles an imagery record with one sample per range bin per side, so there is no overlapping data pieces to be merged and reduced into a single record. This produces uniform quality data, independent of the data collection software.

TruePix™ outputs angles associated with each imagery point in contrast to Snippets that only report the angle of the center point of each snippet. This increases the number of angular measurements by an order of magnitude or more and provides an additional source of information for bottom classification.

TruePix™ has provisions for supporting calibrated sonar outputs. Sonar calibration infers that the projector source levels and receiver sensitivities have been calibrated.

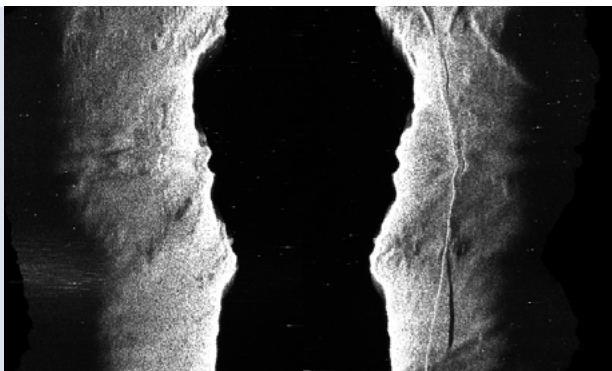


Image courtesy of R2C

TruePix™ offers a significant improvement
in multi-path and noise suppression.