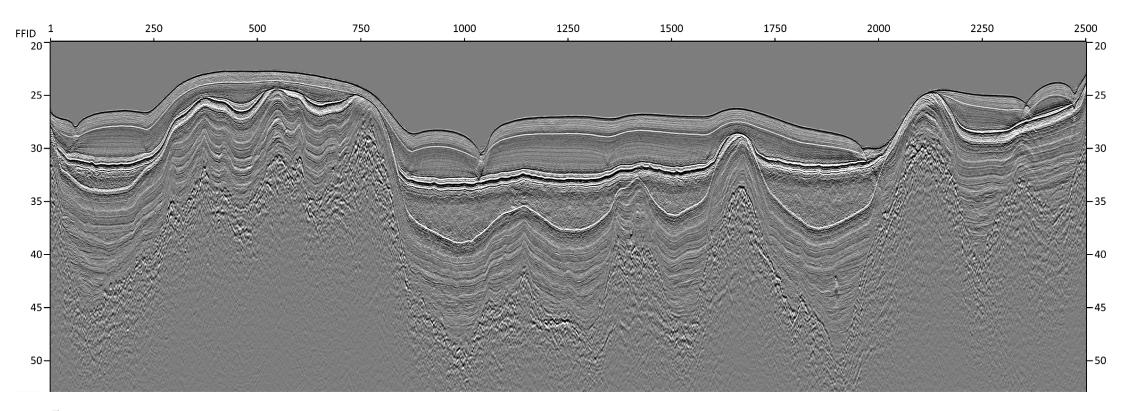
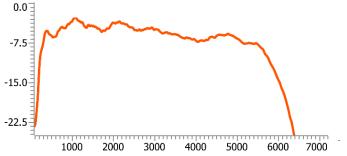
### Holocene sediments over glacial deposits



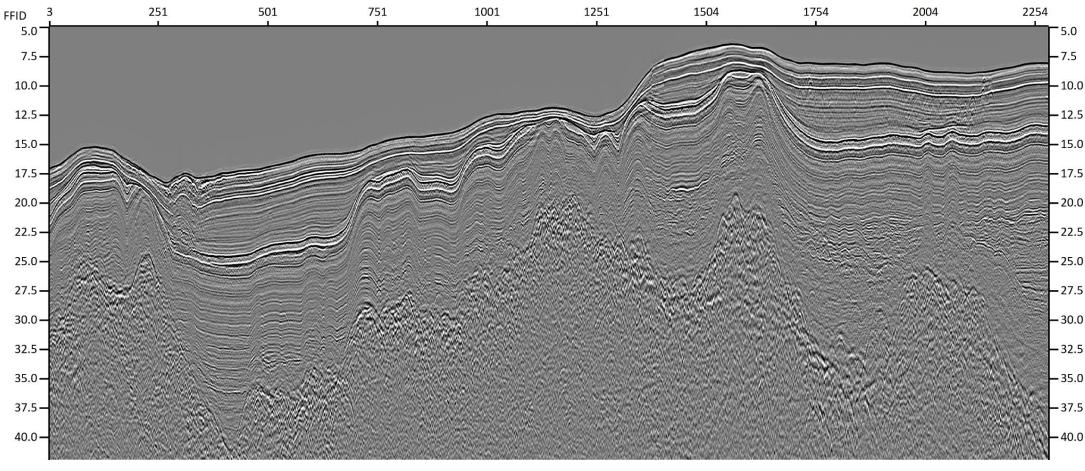


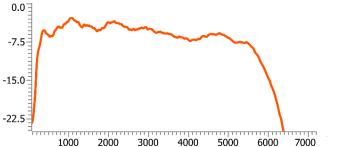
Key processing steps Noise attenuation Swell statics Designature Multiple attenuation Migration <u>Acquisition parameters</u> Source: G-Boomer HF Receiver: HR Streamer (1 channel) Acquired: GEODEVICE

Water depth: 18-25 m Vertical scale: time Resolution: < 1m

# UHR Data Processing

Post-glacier boulder detection, non-migrated mage



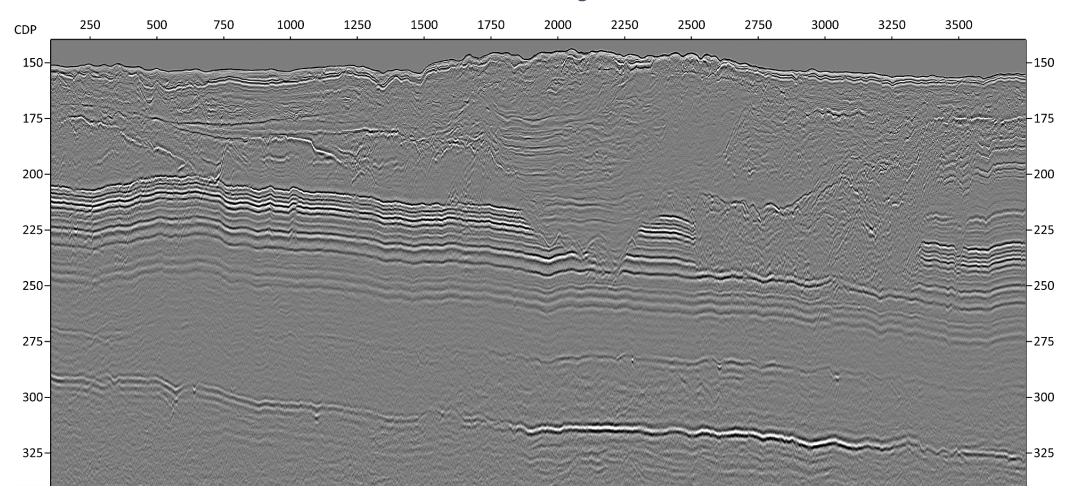


Key processing steps Noise attenuation Swell statics Designature Multiple attenuation Migration

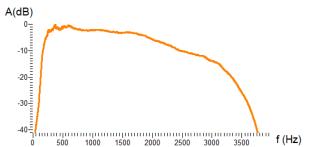
# Acquisition parameters

Source: Sparker FWS-125 Receiver: HR Streamer (1 channel) Acquired: GEODEVICE Water depth: 5-13 m Resolution: < 1m

# UHR Data Processing



### Kara Sea – shallow geohazard assessment



#### Key processing steps

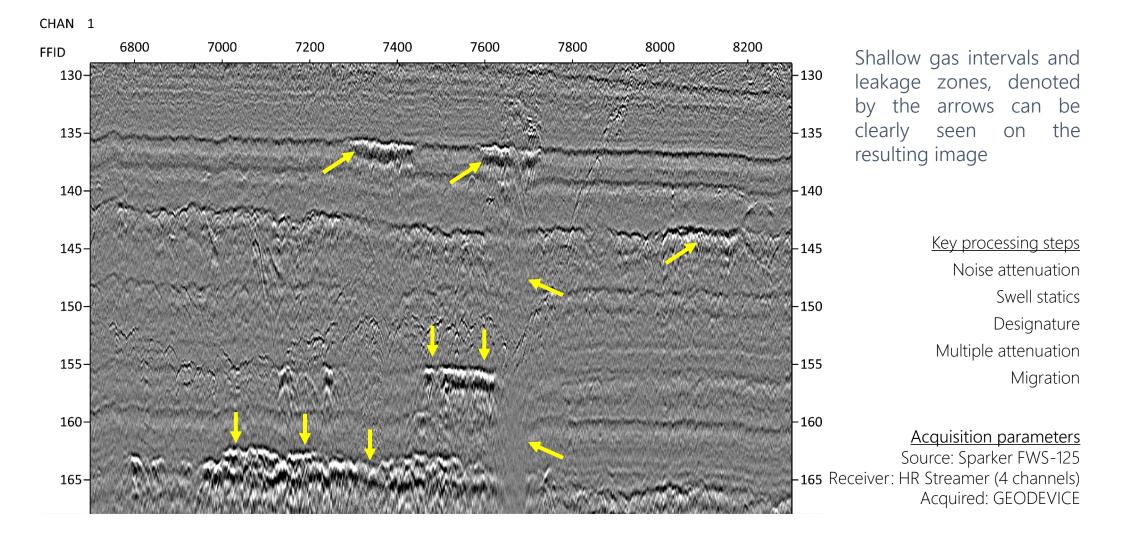
Nosie attenuation S UHR Statics Velocity Analysis

Sparker Designature SRME PSTKM

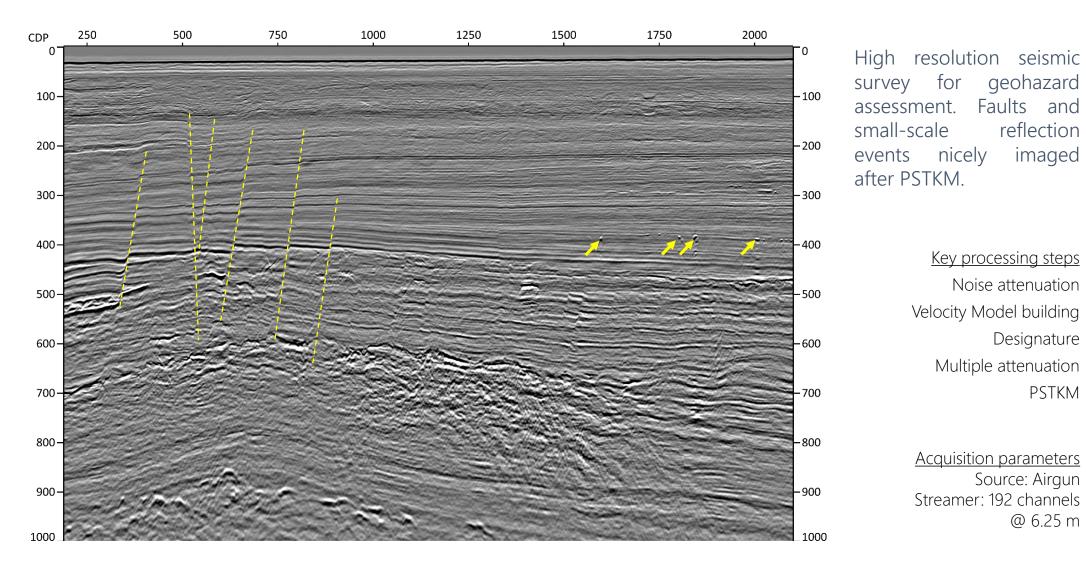
#### Acquisition parameters

Source: Sparker SWS-500 Receiver: 48 channels @ 3.125 m Acquired: MAGE Water depth: 110-140 m

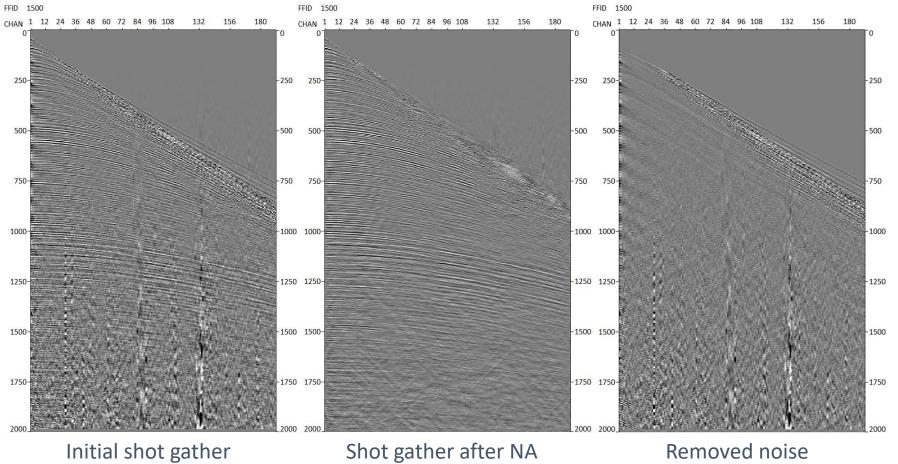
### Shallow gas detection – geohazard assessment survey



### High resolution seismic survey - airgun



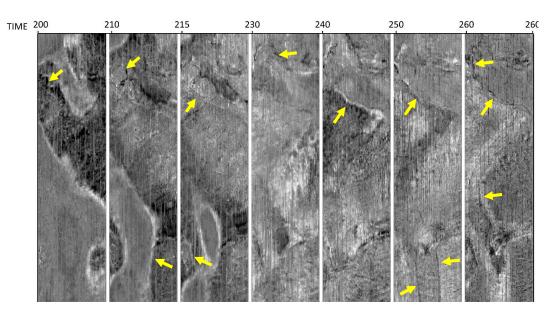
### Noise elimination



As any other marine seismic surveys, HR/UHR are subjected to various types of noise (swell, linear, random, industrial, etc.)

RadExPro provides a complete set of algorithms and approaches for noise elimination, including sophisticated Sparse Radon and FK techniques.

### 3D Regularization



TIME 200 210 215 230 240 250 260 260

Inaccuracy in cable steering during high resolution 3D seismic surveys (weather conditions, absence of steering birds, etc.) and other aspects of data acquisition, result in coverage gaps as well as non-regular fold and offset distributions in bins. These issues can be fixed by regularization routine.

Application of 3D regularization to 3D high resolution seismic survey with a small volume airgun is shown. Time slice images significantly improved due to filled gaps coverage and fold regularization. Arrows denote paleo channels and small scale features.

<u>Acquisiton parameters</u> Source: Small volume airgun Flip-flop shooting Streamers: 2x48 channels @ 6.25 m Bin size: 6.25x6.25 m



www.radexpro.com sales@radexpro.com