

Processing Technology by **GEOGALS** company

QPSDM

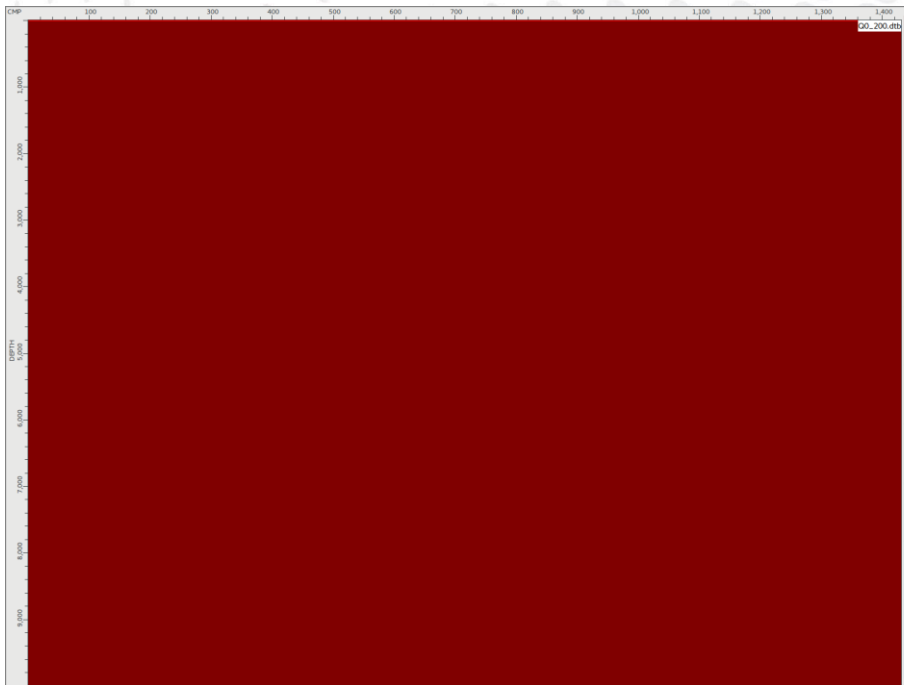
QTOMO

Kirchhoff depth migration with taking into account absorption (Q factor) by OpenCPS software

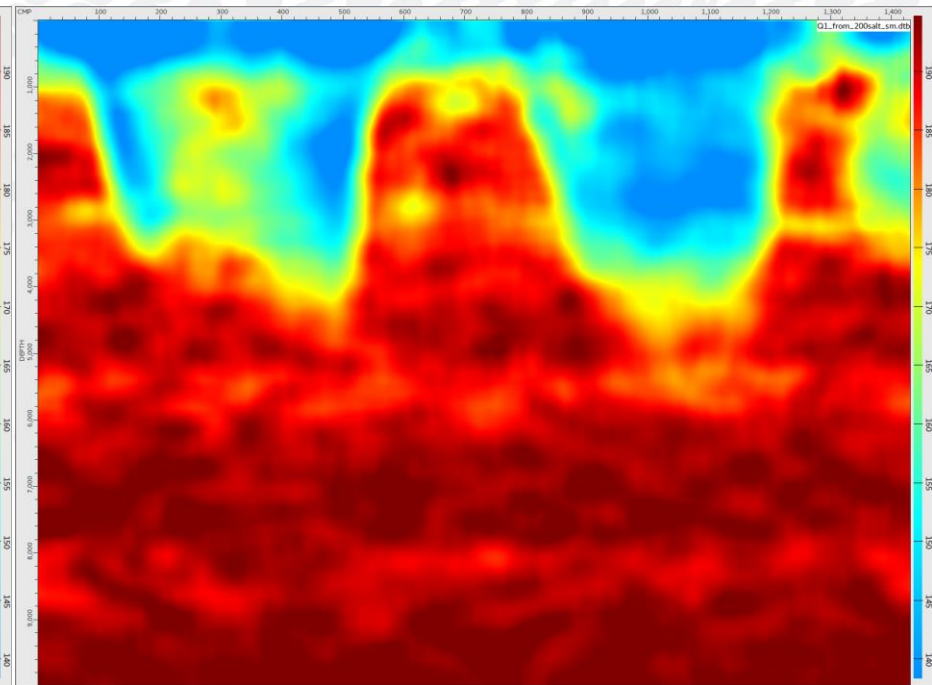
- Amplitude decay of seismic signal, propagation in the medium, occurs due:
 - geometrical divergence
 - inelastic absorption
- The implementation in this migration takes into account both of these factors, therefore, the seismic gathers fed without input gain
- In particular, inelastic absorption describes the quality factor Q , which can be refined using tomography

Q -tomography, Q section

before tomography



after tomography

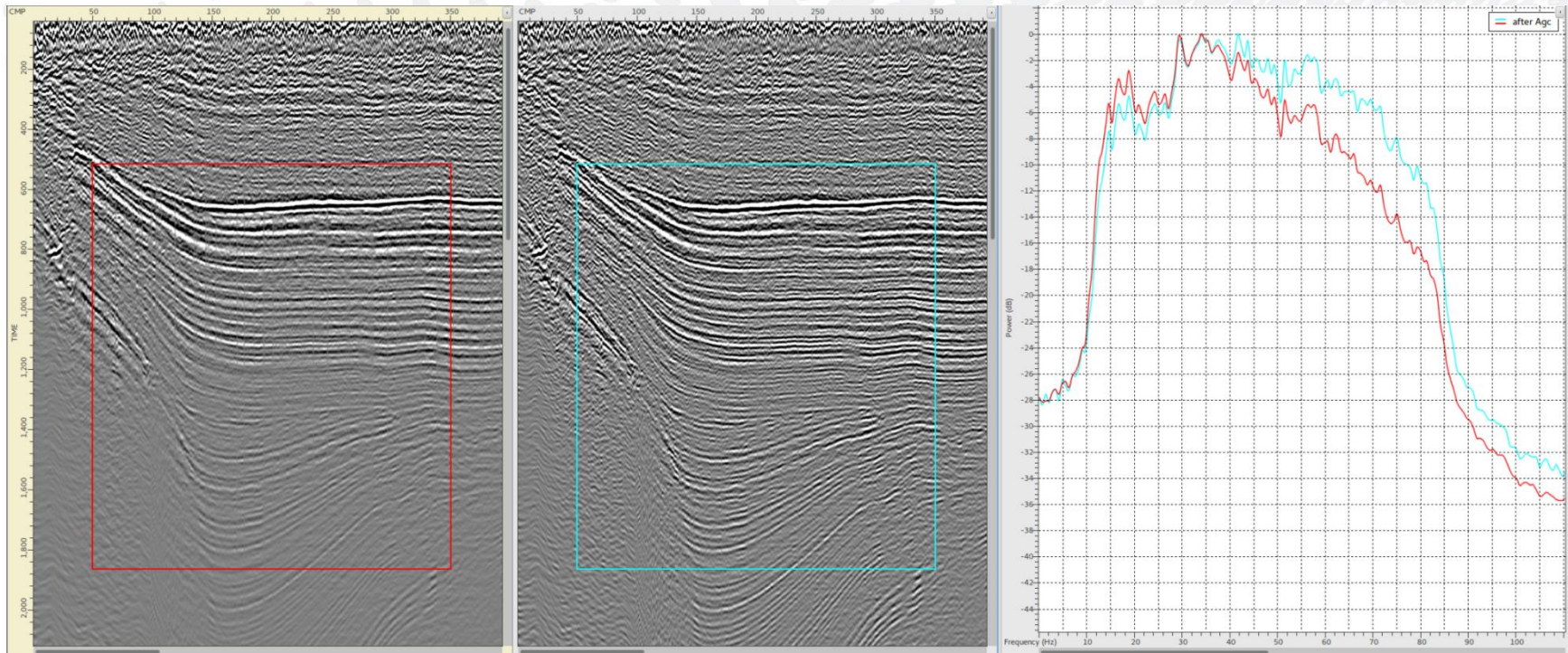


Fragments of section after migration and their spectrums with $Q=200$ and refined Q -factor after tomography

before tomography

after tomography

amplitude-frequency spectrum



The use of Q migration allows to restore high frequencies, as a result of their absorption by the medium, thereby increasing the resolution of seismic recording