## SurfSeis<sup>©</sup> Surface Wave Processing Software for use with Microsoft<sup>®</sup> Windows™

*SurfSeis*<sup>©</sup> software has developed as a product of our research at the Kansas Geological Survey (KGS). It was written to process both active and passive seismic data to obtain shear-wave velocity (Vs) models, using the multichannel analysis of surface waves (MASW) method, which was also originally conceived and developed at the KGS.

Surface waves have historically been the bane of near-surface reflection seismologists. With the development of **MASW** has come a global explosion in research and use of the MASW method for application to engineering, groundwater, and environmental problems. Our fourth generation (*SurfSeis*<sup> $\circ$ </sup> 4.0/4.2) provides industry-leading features and capabilities.





## New to SurfSeis<sup>©</sup> 4

- Enhanced passive MASW data dispersion-curve imaging in the presence of passive multi-source environments such as road traffic and trains.
- Inversion using friendly 1-D and 2-D a priori information input.
- HLRT better (sharper) dispersion-curve imaging and mode separation (and interpretation) (optional in v4.2), can be useful with multi-mode inversion (available since v.3.0).
- Ongoing-inversion 2-D Vs monitoring and 2-D imaging of final derivable from *a priori* information and Vs results (such as Vp or Poisson's ratio).
- New menus and friendly dialogs complementing existing interface; smoother operation; faster code.
- Improved compatibility with other KGS seismic software (i.e., WinSeis, SeisUtil, seismodeler).

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## SurfSeis<sup> $\circ$ </sup> 4.0 / SurfSeis<sup> $\circ$ </sup> 4.2

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Contact us for pricing and visit our webpage for more information (email and web address below). Upgrade pricing available with current serial number.



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SurfSeis 5 (coming soon)

- varying Topography,
- passive-data HRLRT,
- Love-wave inversion,
- Scholte-wave inversion, and more scheduled release – <u>March 1, 2016</u>