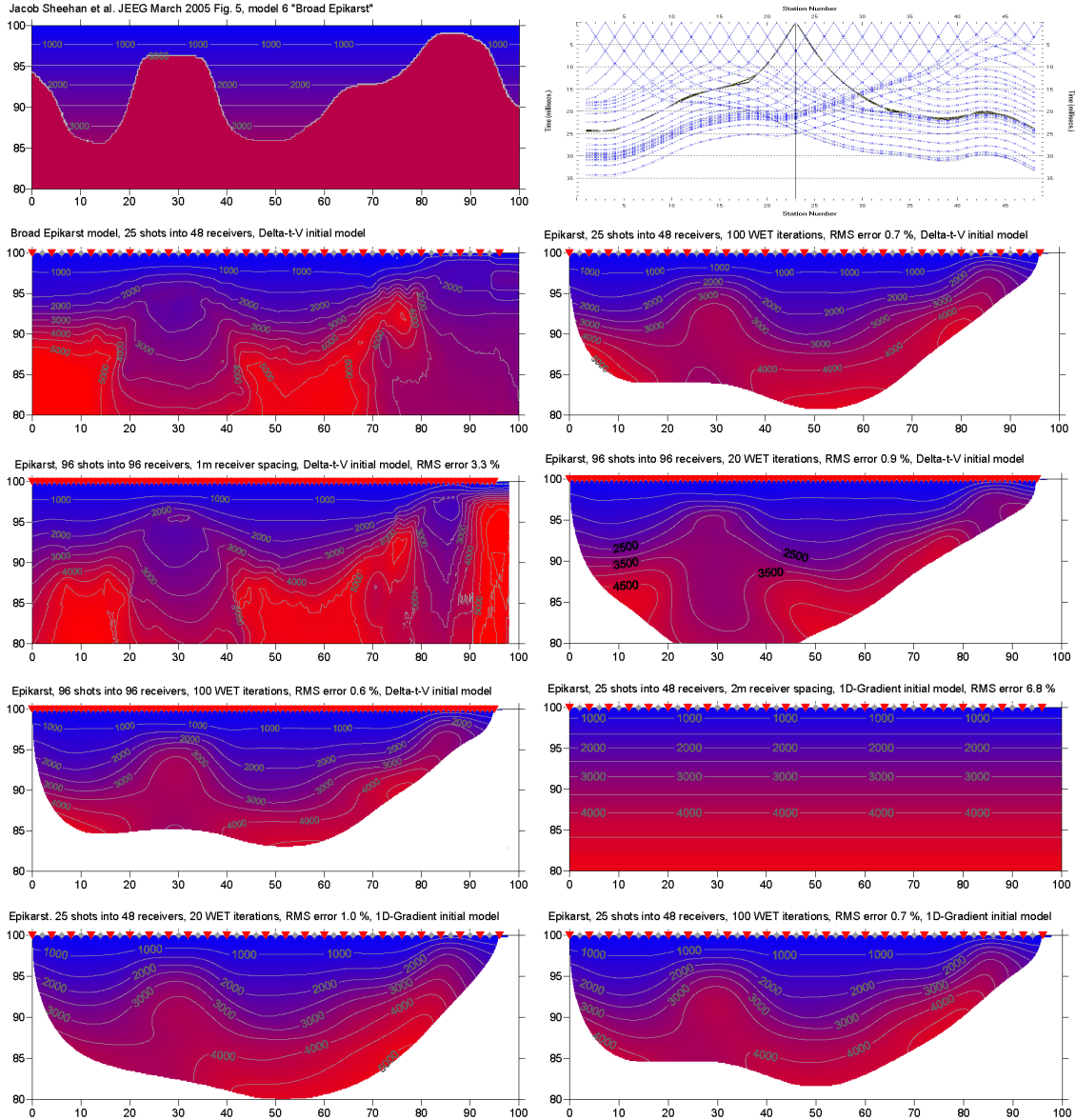


## Interpretation of Sheehan Broad Epikarst Model, with Rayfract® 3.18

We show interpretation of the [broad epikarst model](#) described by [Jacob Sheehan](#) in his [JEEG March 2005 evaluation](#). We increase the number of shots, decreasing the shot spacing : shoot at every vs. at every 2<sup>nd</sup> receiver. Also, we decrease the receiver spacing from 2m to 1m. We refine the Delta-t-V pseudo-2D initial model with [WET tomography](#), showing 20 and 100 WET iterations. Finally, we use our default [Smooth inversion](#) method, based on a 1D-Gradient initial model and 20 vs. 100 WET iterations.



Above Delta-t-V interpretation does not improve with more narrow spacing of shots and receivers. But default Smooth inversion with 1D-gradient initial model (at bottom right) works reliably, with just 20 or with 100 WET iterations. Resolution of WET and seismic refraction tomography decreases with increasing imaged depth. See [D.J. White 1989](#), [J.G. Hagedoorn 1959 Fig. 1](#), <http://rayfract.com/tutorials/thrust.pdf> and <http://rayfract.com/tutorials/fig9inv.pdf>.