

Full-length seismic sections for OBH 15 - 13.
Geological cross-sections from the southern Baltic Sea.
Examples of the selected tested models.
Comparison of the P_n and $P_M P$ traveltimes for the tested models.

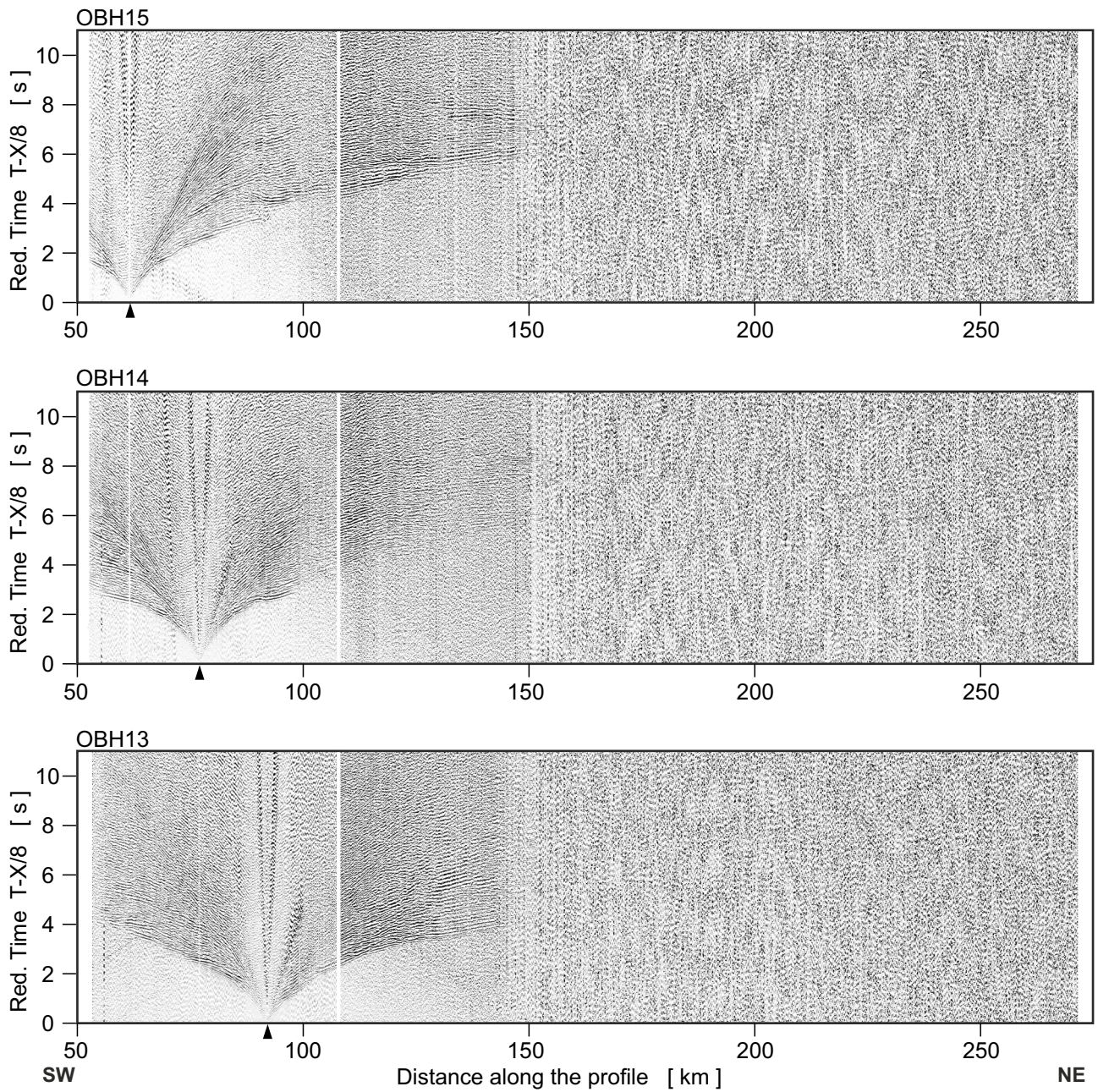


Figure 1. Examples of trace-normalized, full-length seismic record sections along the BalTec profile for OBHs 15-13, which are displayed in Figures 3a and 6d of the manuscript, in truncated form. From about km 150 of the profile we observe a very low signal to noise level. A band-pass filter (4-19 Hz) has been applied. The reduction velocity is 8.0 km/s.

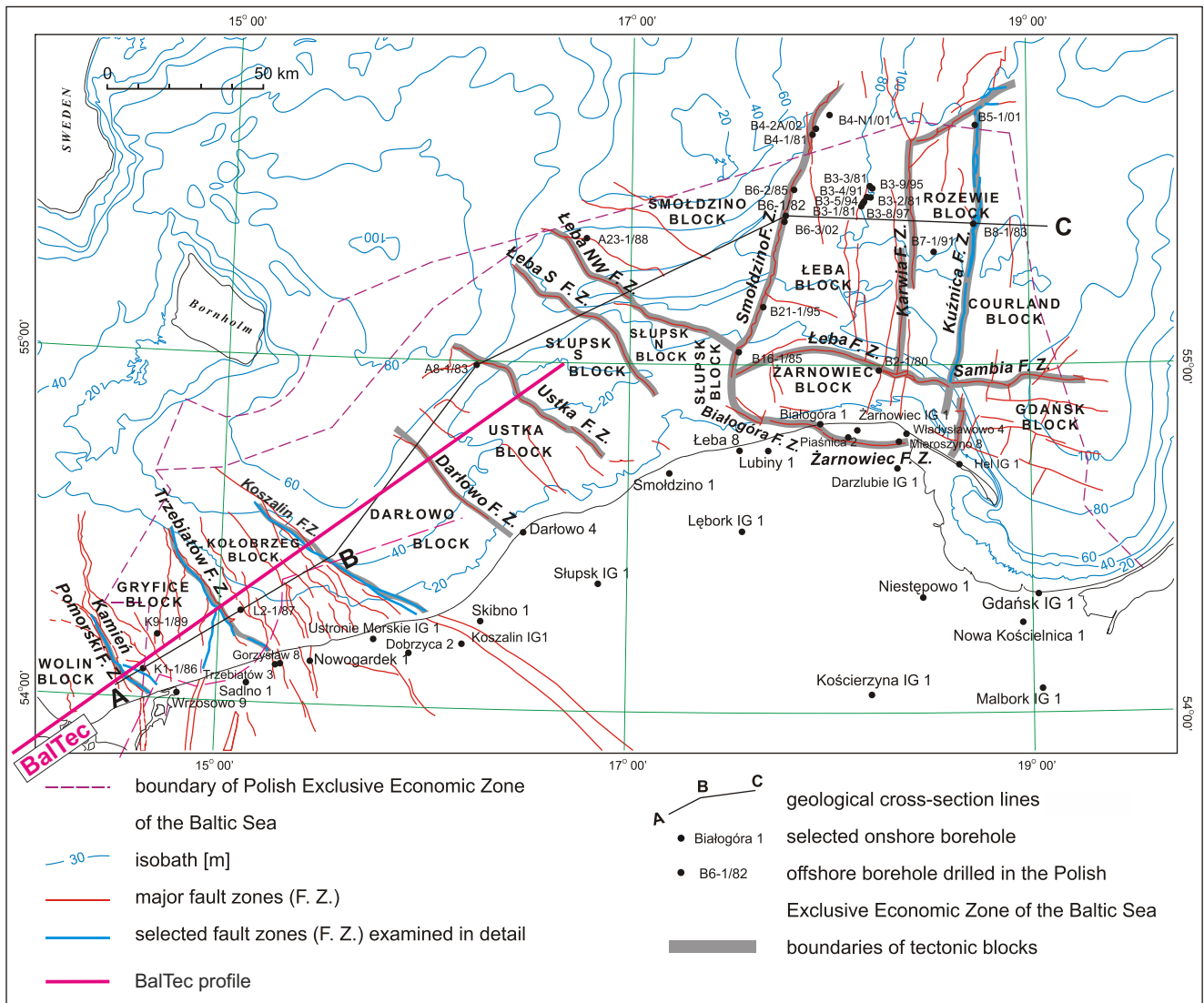


Figure 2. Structural-tectonic sketch map of the Polish Exclusive Economic Zone of the Baltic Sea (modified after [Jaworowski et al., 2010](#)). The BalTec profile line has been added.

Reference

Jaworowski, K., Wagner, R., Modlinski, Z., Pokorski, J., Sokołowski, A., Sokołowski, J., 2010. Marine ecogeology in semi-closed basin: case study on a threat of geogenic pollution of the southern Baltic Sea (Polish Exclusive Economic Zone). *Geological Quarterly* 54(2), 267–288.

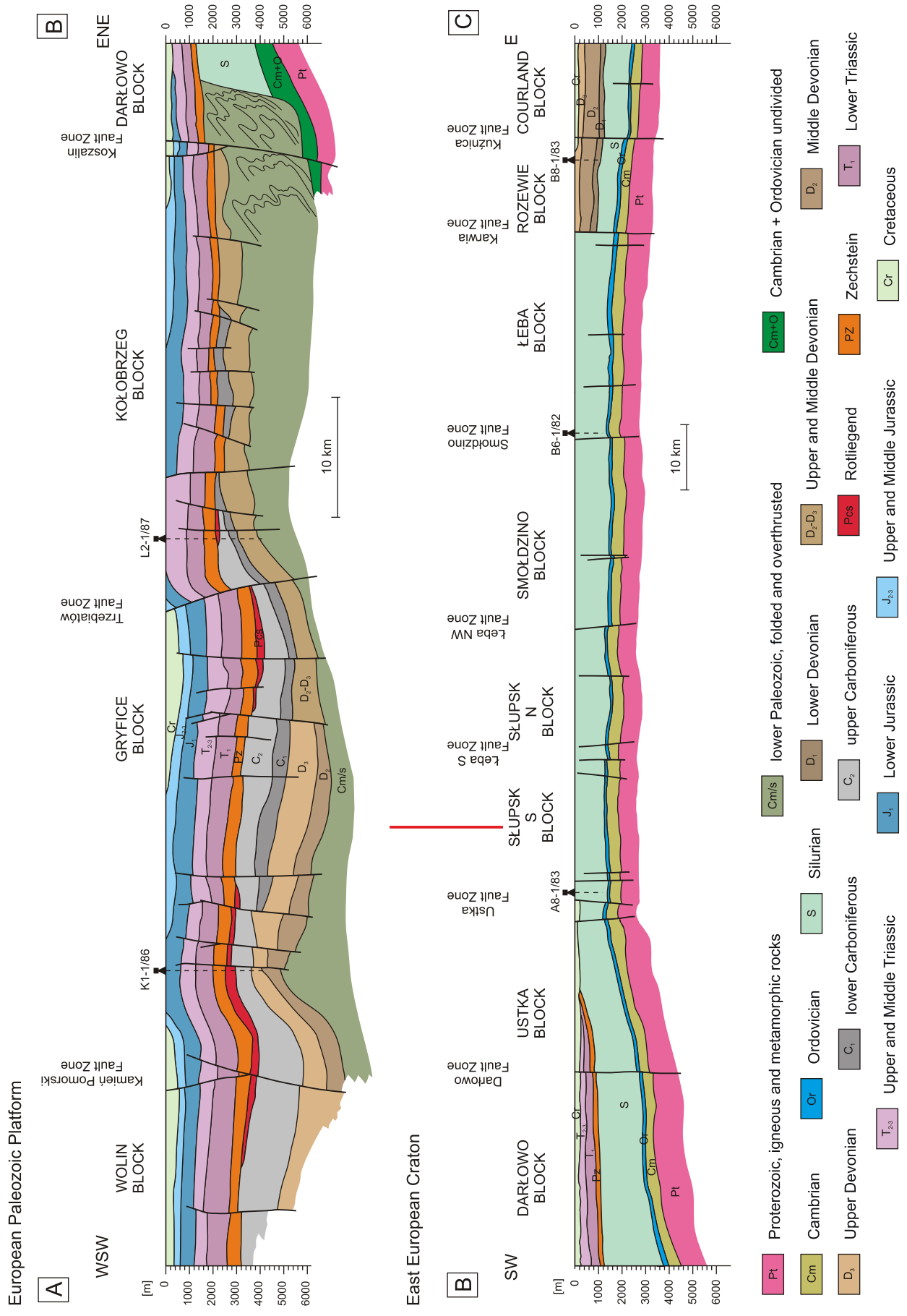


Figure 3. Regional geological cross-sections: A-B and B-C (modified after Jaworowski et al., 2010). Their locations are shown on the map in Figure 2. The extrapolated information on the geological structure was included in the trial-and-error modeling. The vertical red line marks the end of the cross-section's segment used in the model preparation.

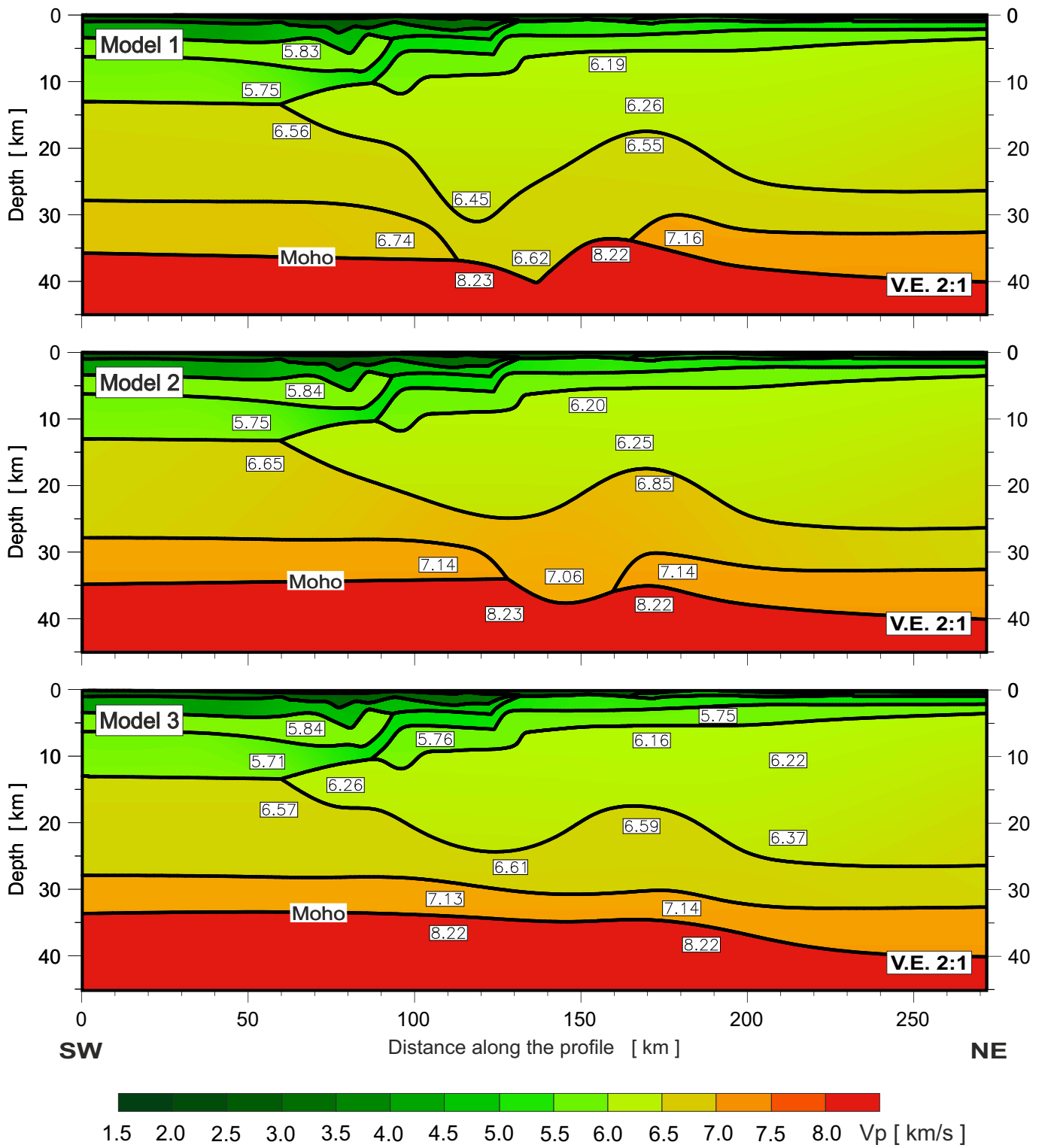


Figure 4. Selected examples of tested models: Model 1, Model 2 and Model 3.

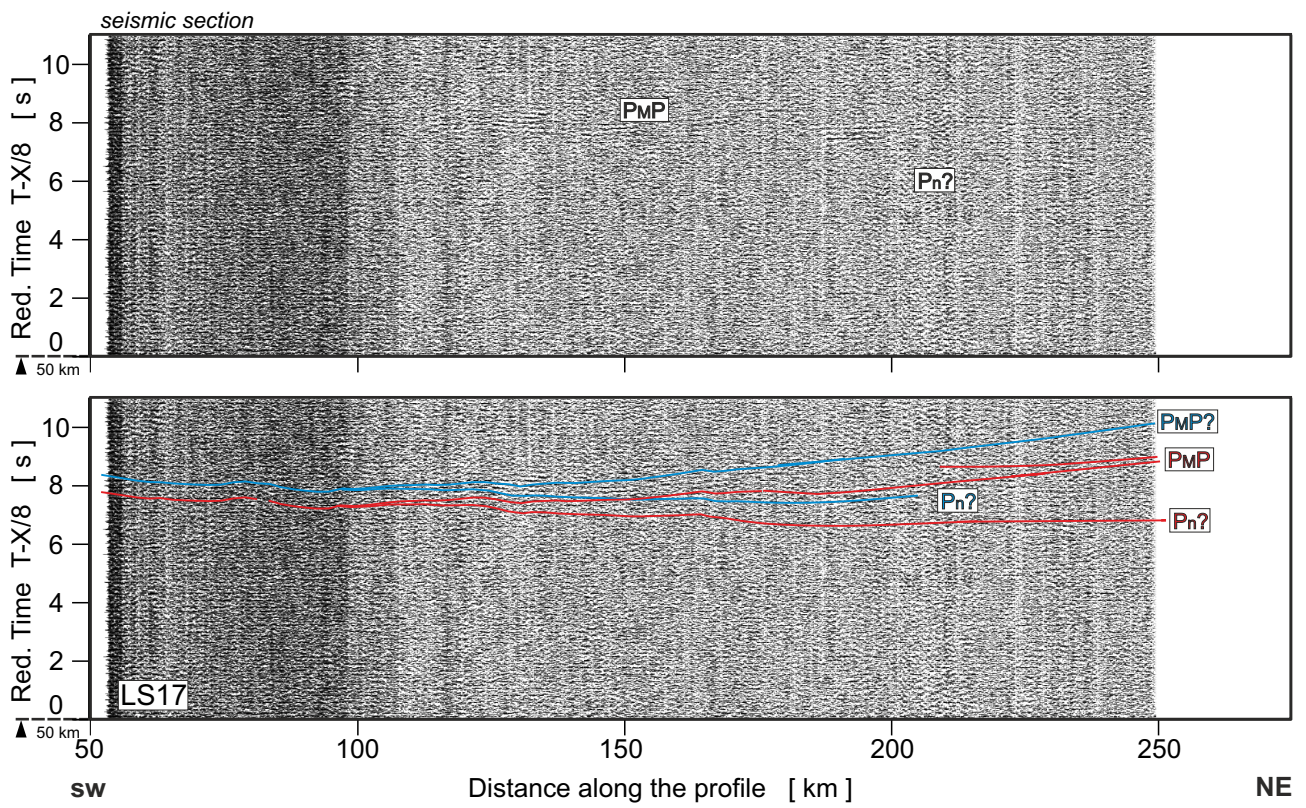


Figure 5. The seismic section for land station (LS17), comparison of the P_{MP} and P_n travel-times for the tested Model 1 (blue lines, see Figure 4 in Supplementary Material S2) and the final Model 4 (red lines, see Figure 4 in the article).