

*Geophysical Research Letters*

Supporting Information for

**Seismic Evidence for Lower Crust Magmatic Underplating and Magmatic Intrusion in Northeast China**

Chuansong He

Institute of Geophysics, China Earthquake Administration, Beijing 100081, China

Corresponding author: Chuansong He, email: hechuansong@aliyun.com

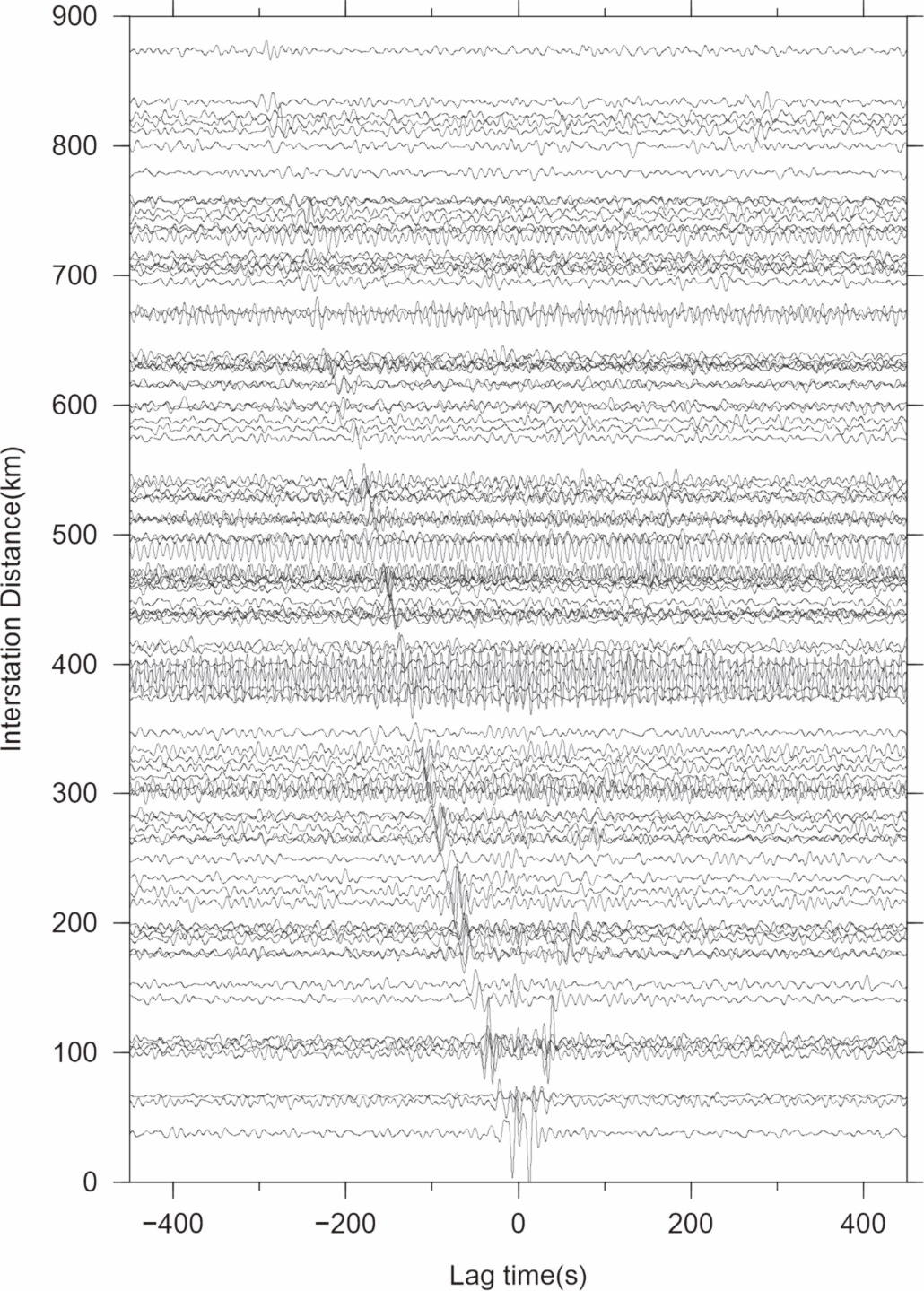


Figure S1. Correlation of one year of data at seismic station ZXT0 relative to other seismic stations at periods from 5 to 50 s.

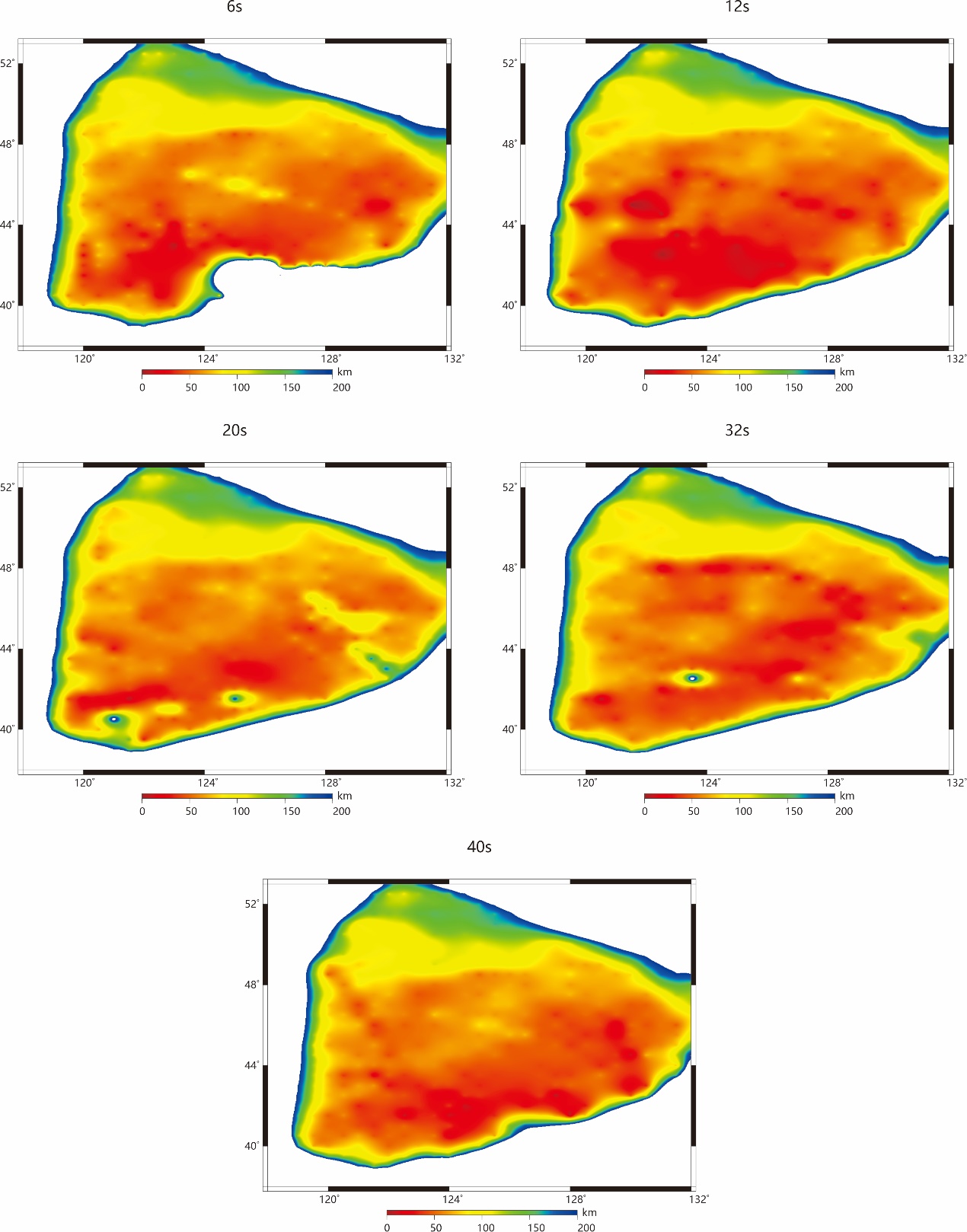
****

Figure S2. Distributions of the spatially averaged resolution radius at different periods. The color scale at the bottom shows the value of the resolution radius.

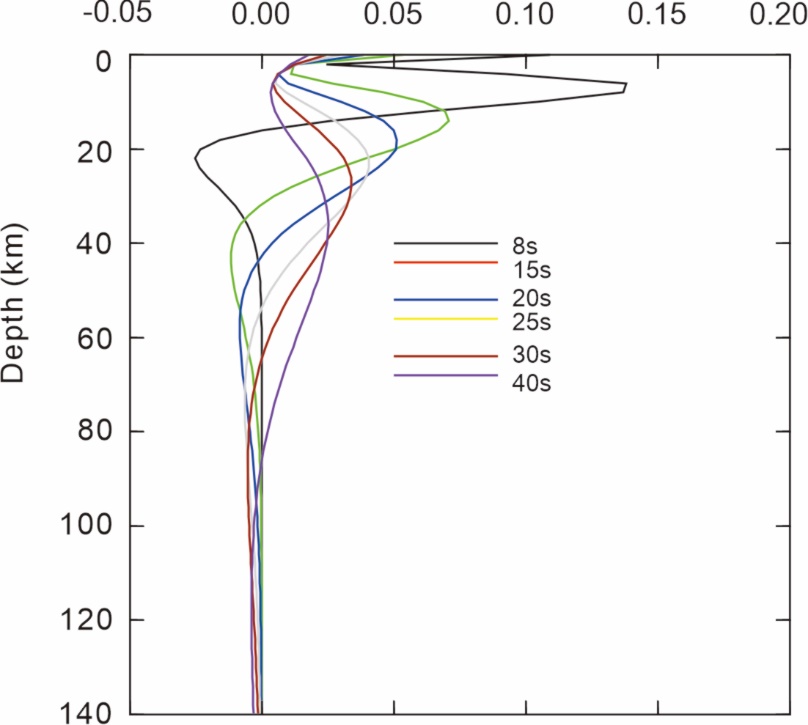


Figure S3. Sensitivity kernels of the fundamental Rayleigh group velocities at 8 s, 15 s 20 s, 25 s, 30 s and 40 s. The AK135 model (Kennett et al., 1995) is adopted for the calculation, and the crustal thickness is set at 35 km.

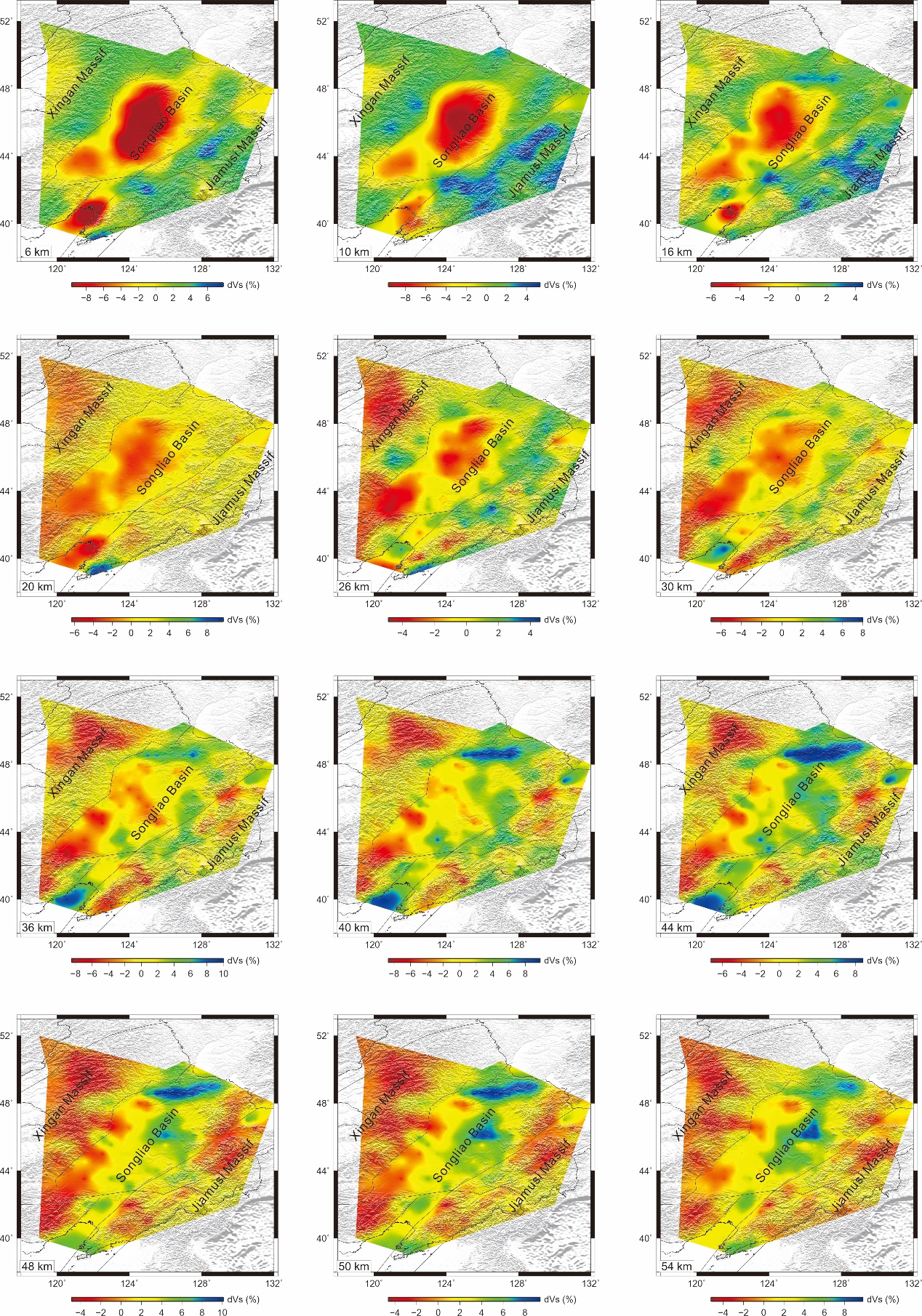


Figure S4. S-wave velocity perturbations at depths of 6–54 km.

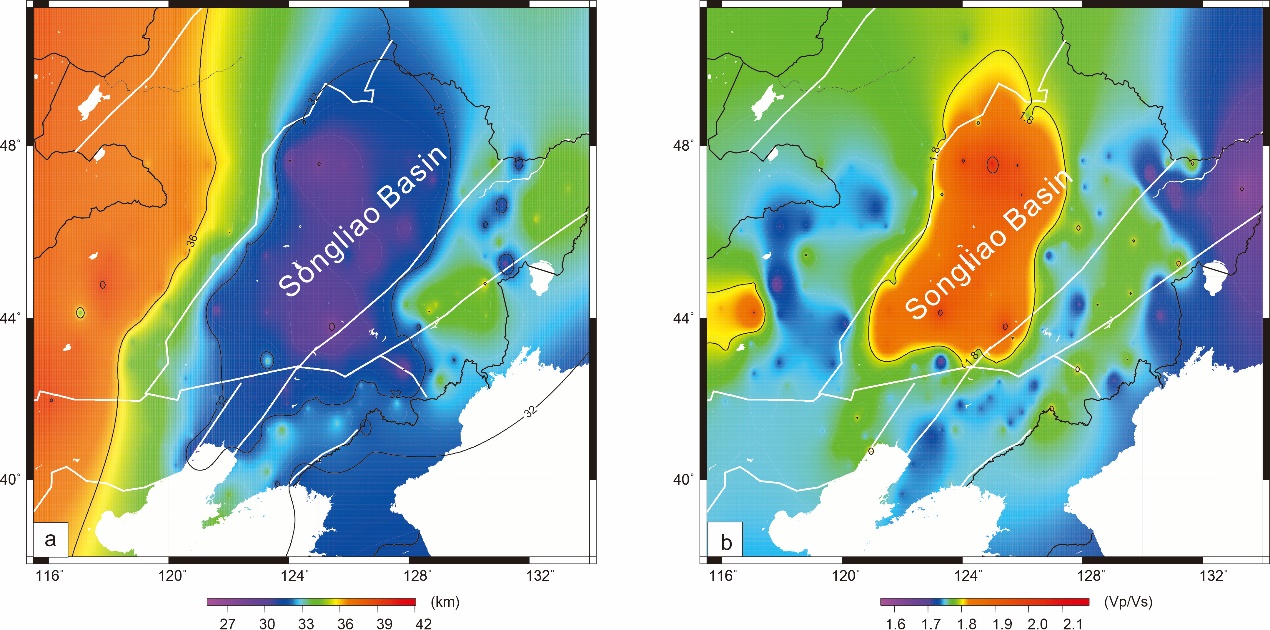


Fig. S5. Crustal thickness (a) and Vp/Vs ratio (b) (He and Santosh, 2016; He, 2021).

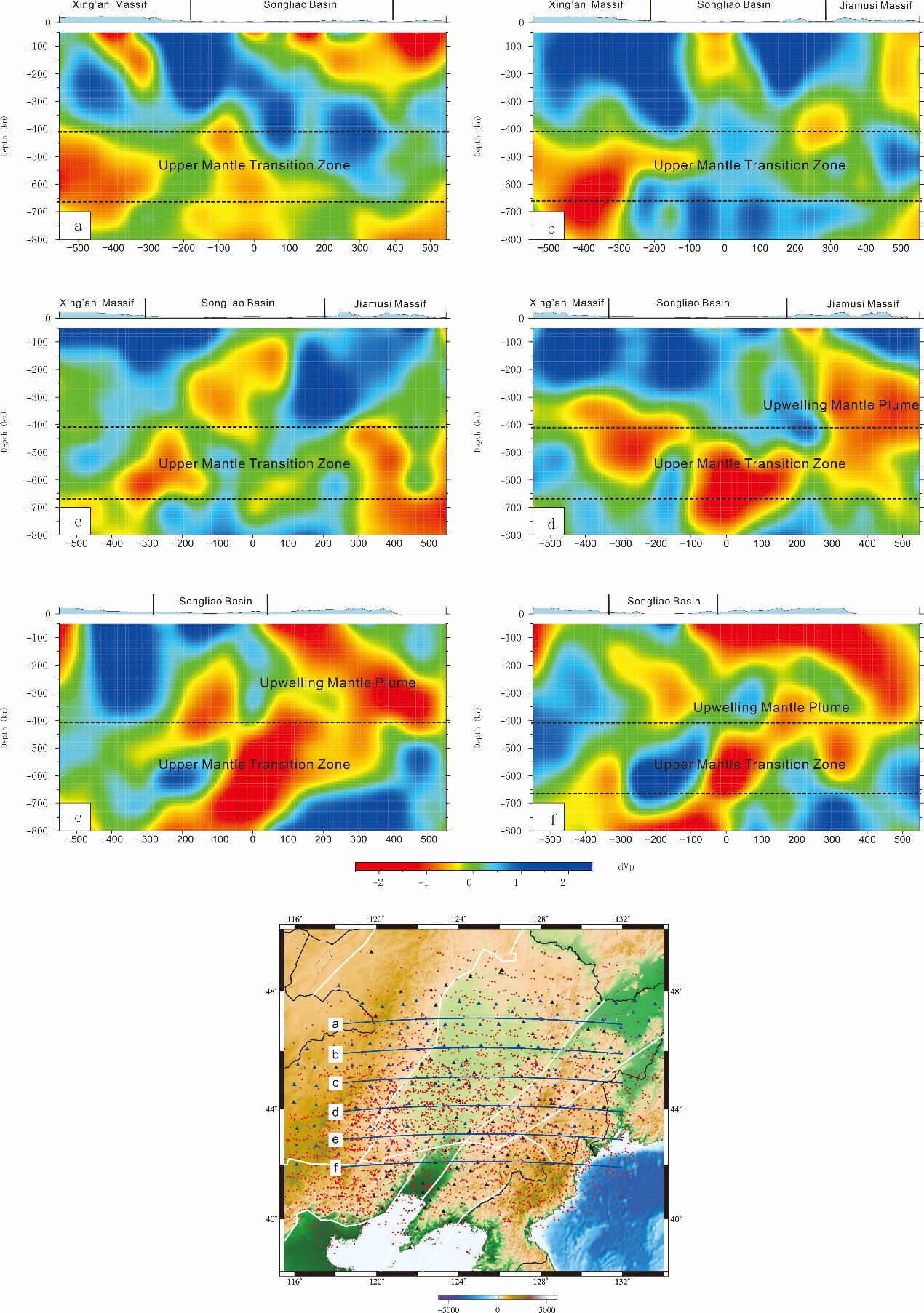


Fig. S6. P-wave velocity perturbation (He and Santosh, 2016; He, 2021).