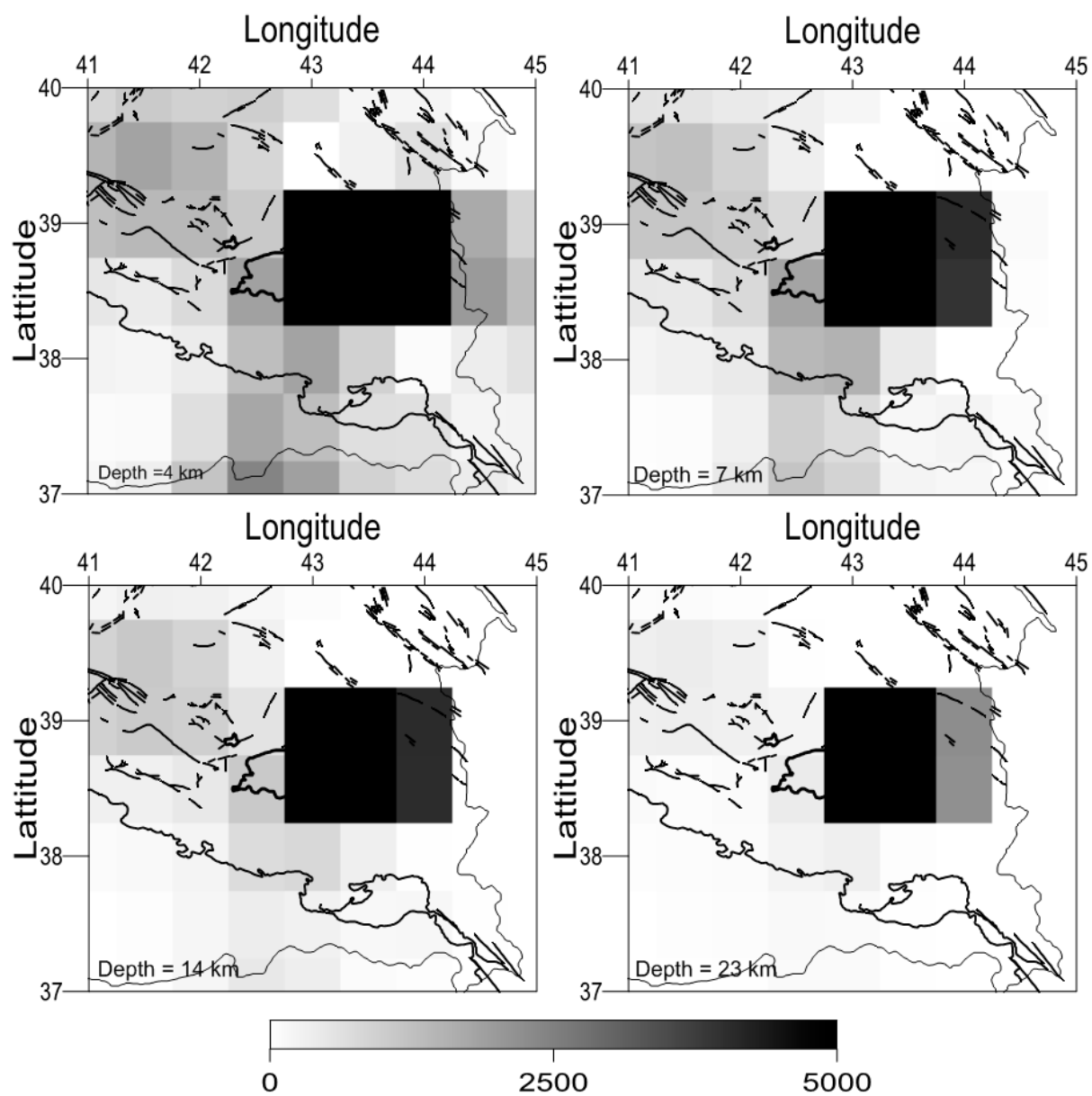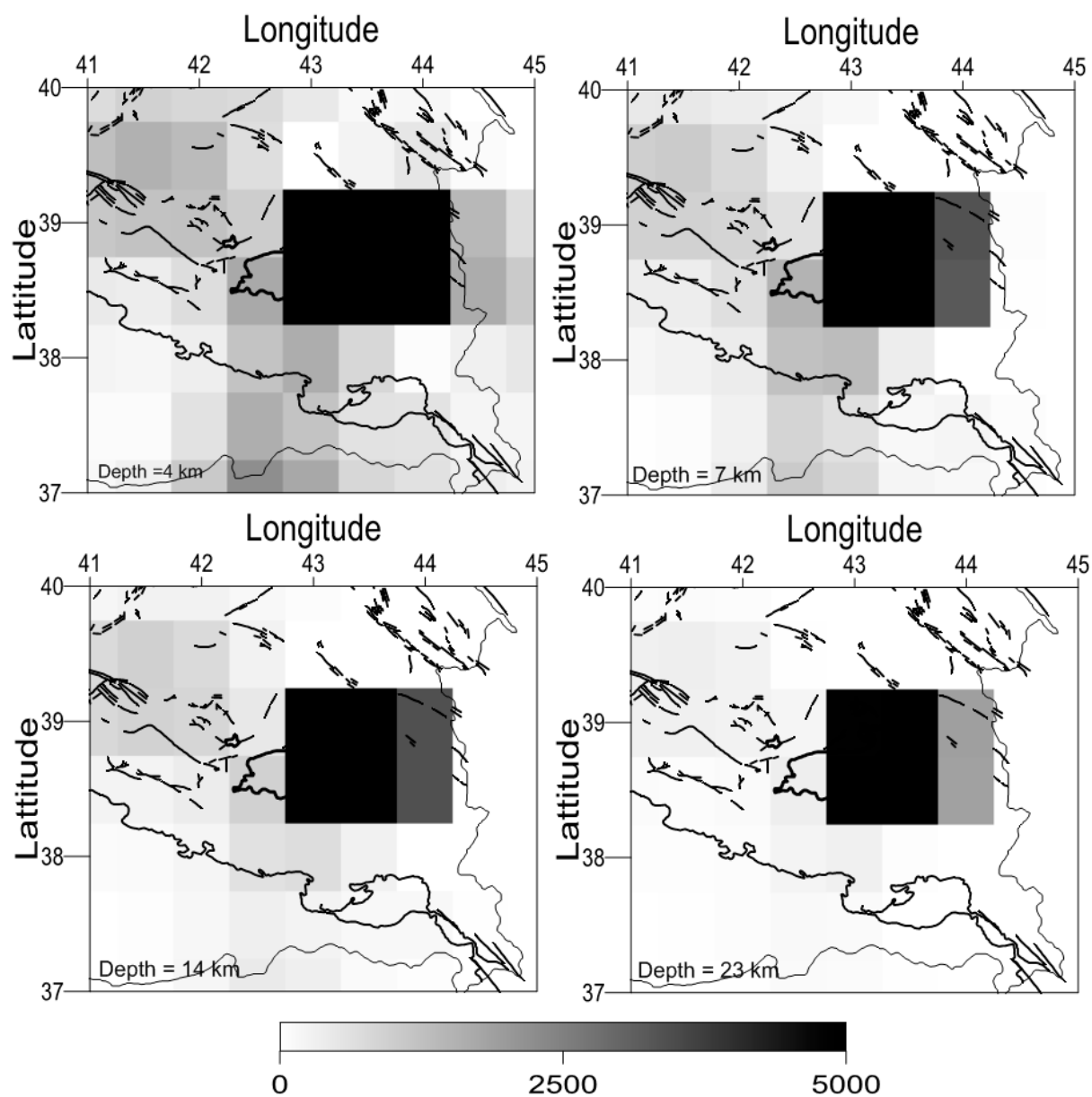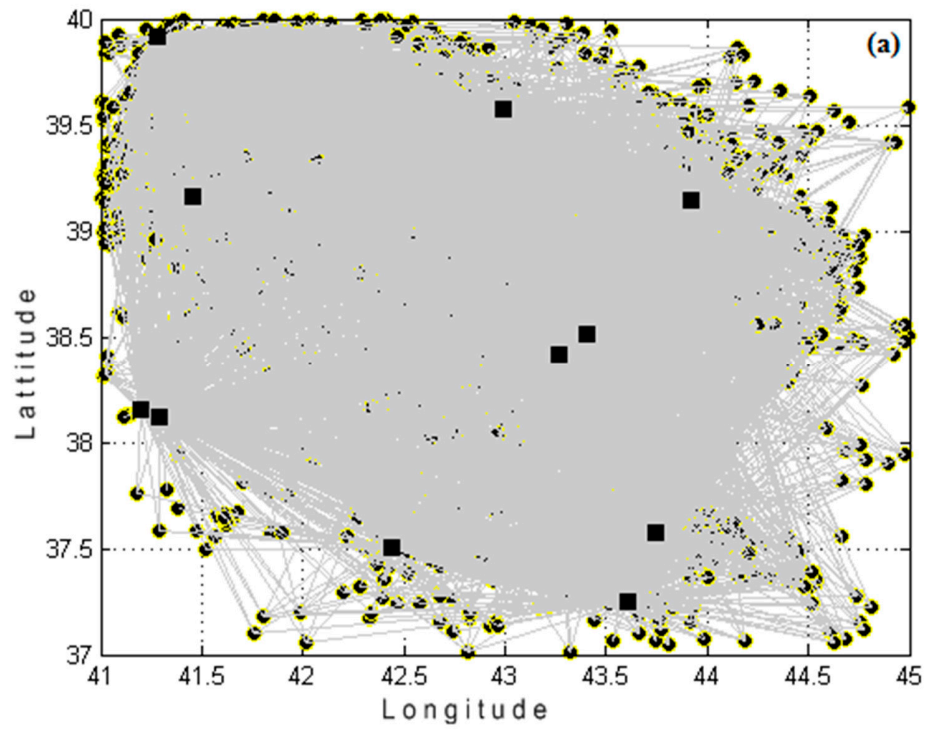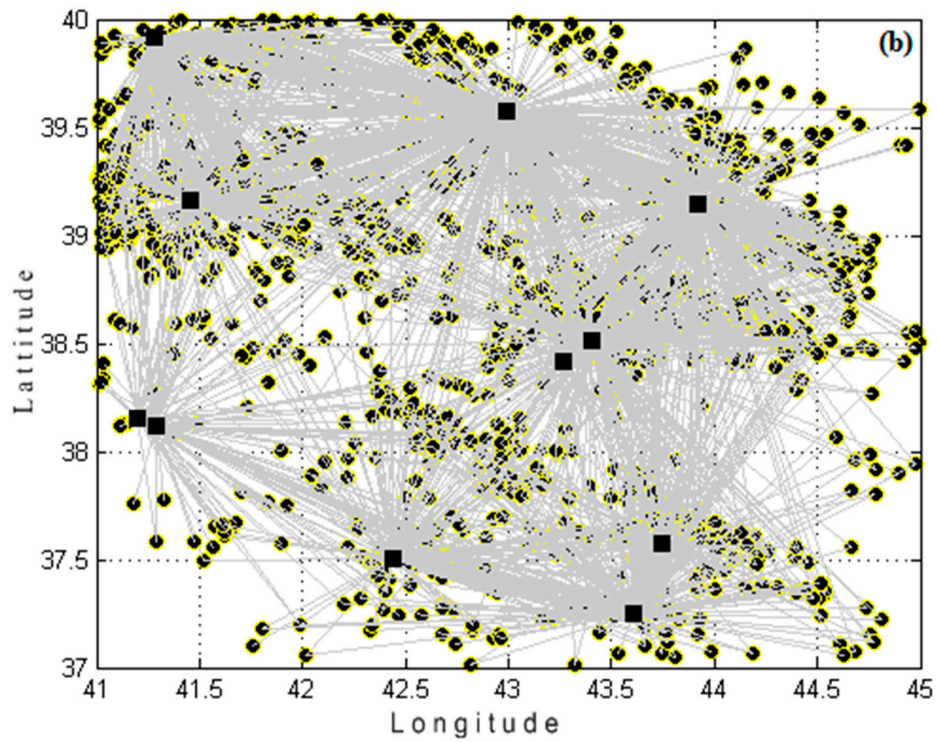**1. Grid Net**

2. Number of rays passing through each grid node for P-wave

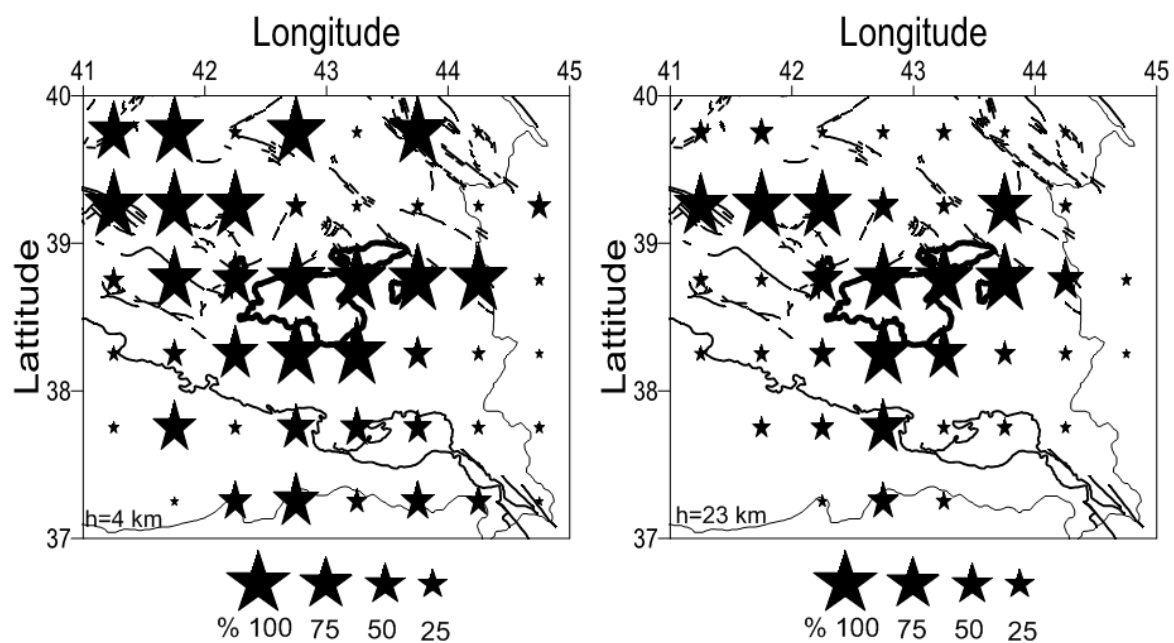**3. Number of rays passing through each grid node for S-wave**

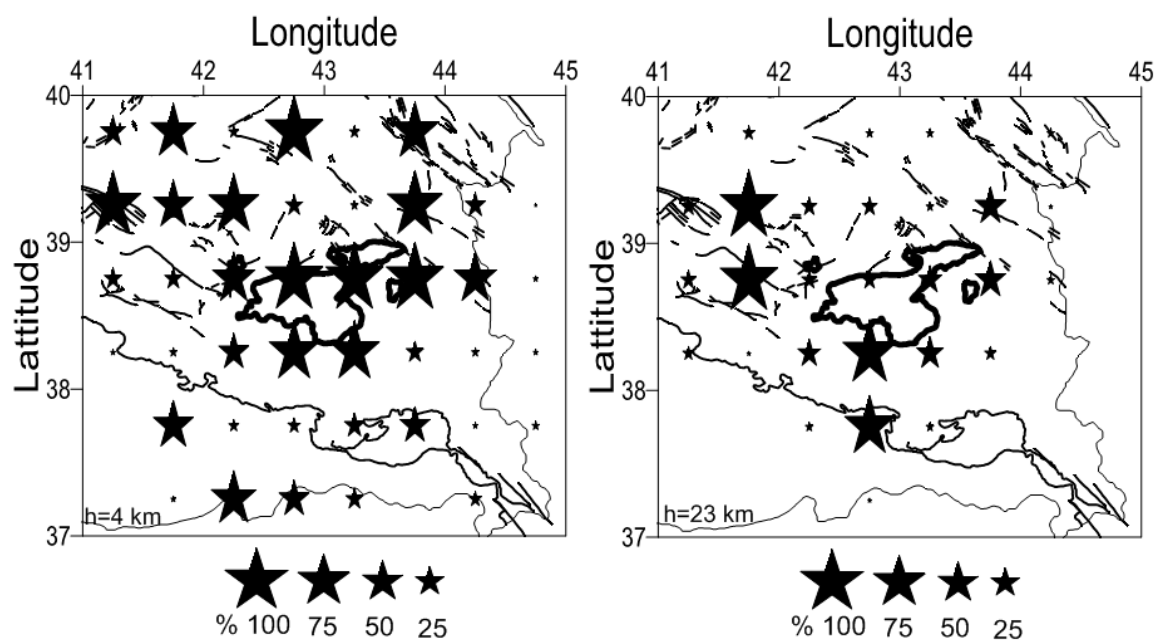**4. P-wave ray path**
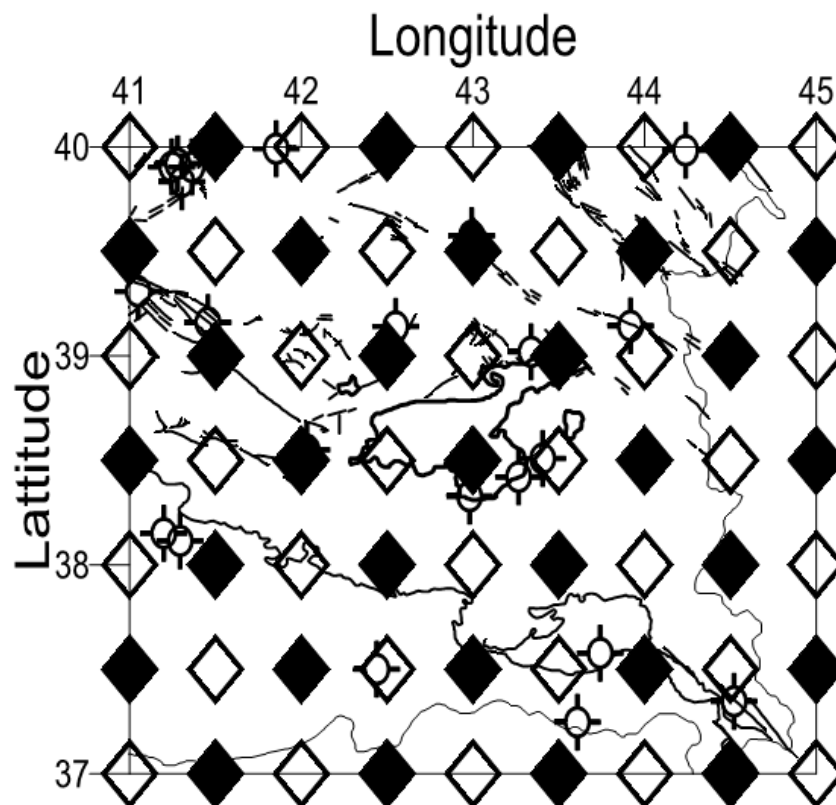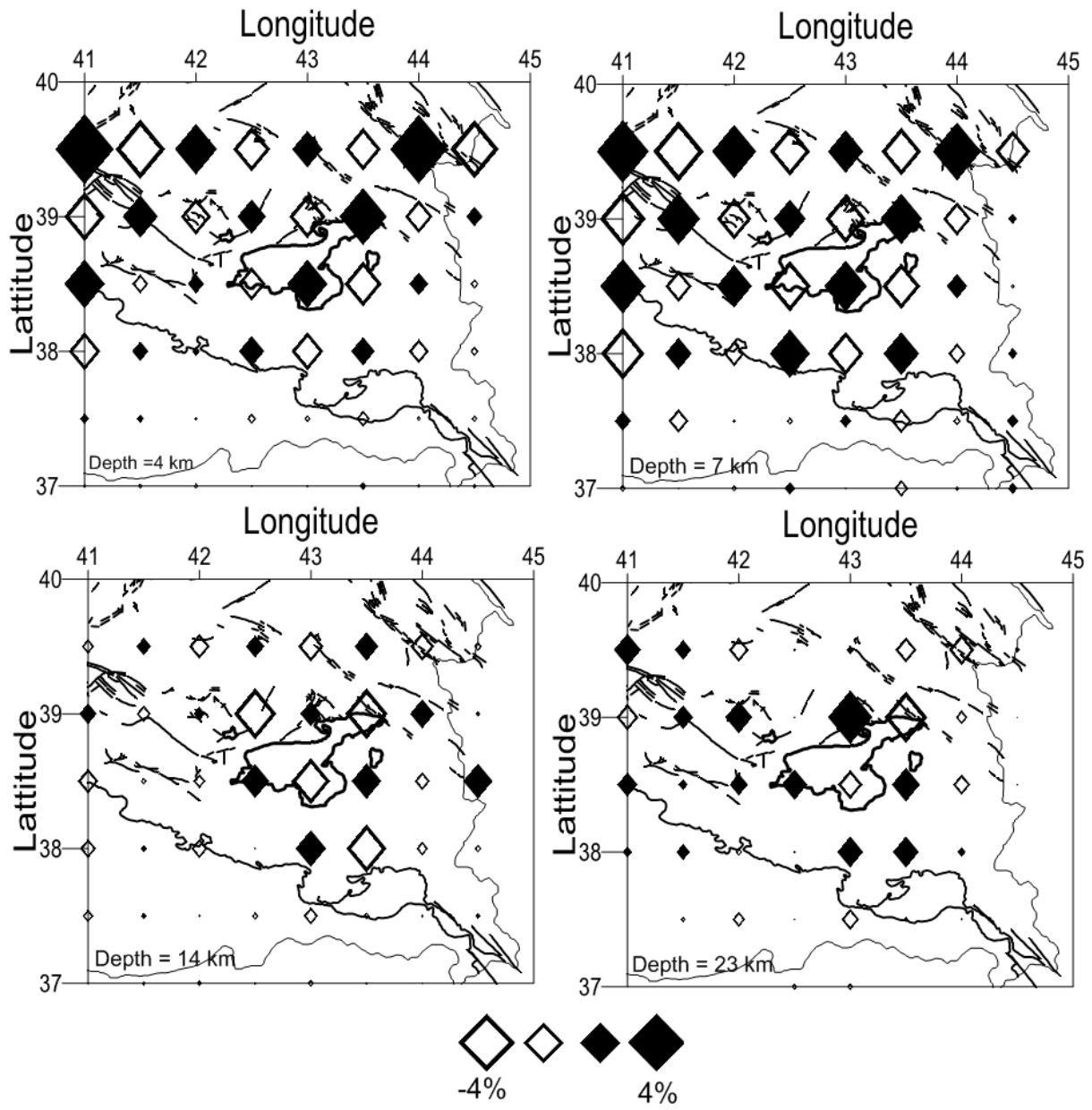

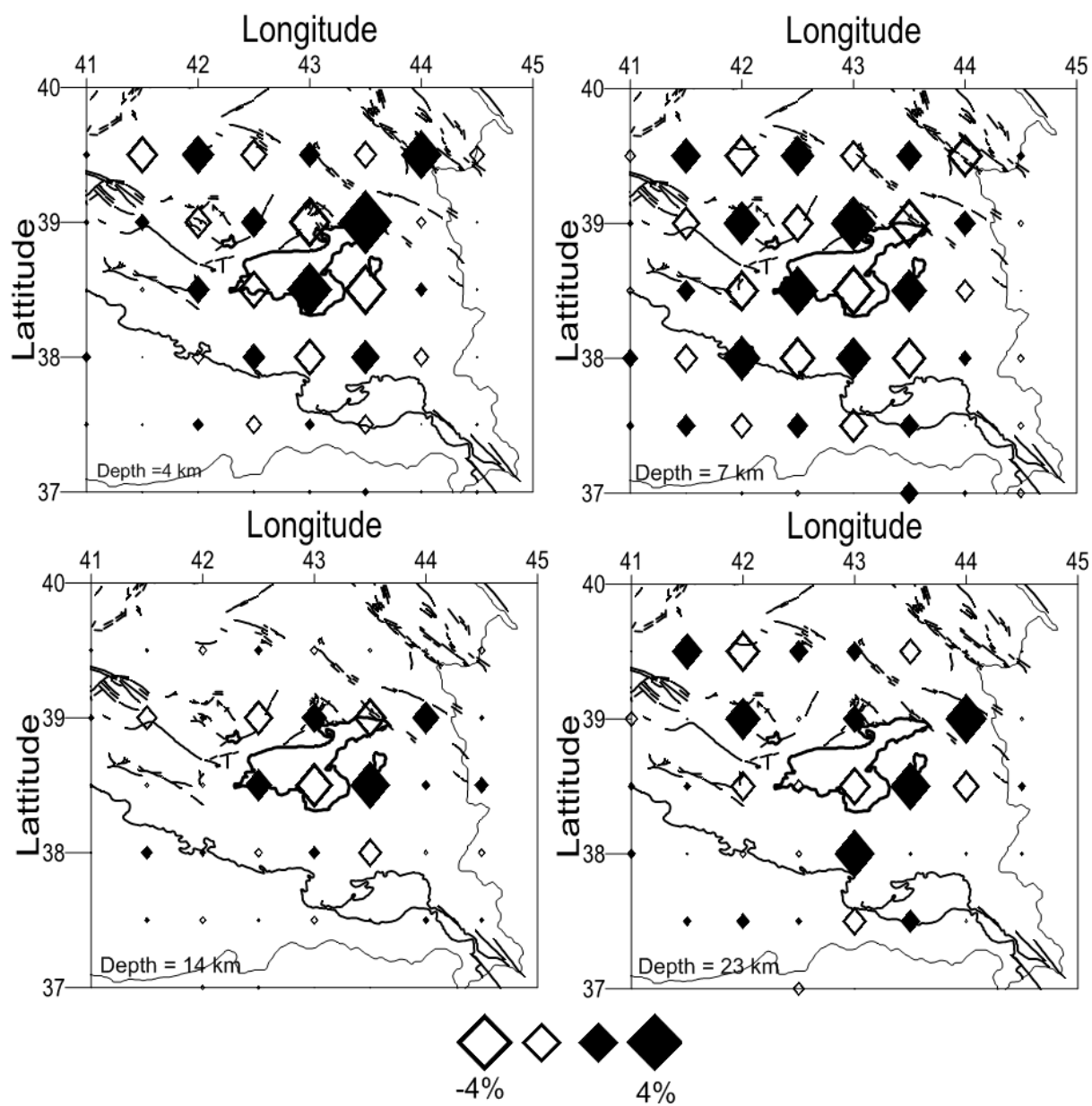**5. S-wave ray path**

6. P-wave amplitude recovery

7. S-wave amplitude recovery

8. **The input checkerboard synthetic model**

9. The results of the checkerboard resolution test for P-wave velocity

10. The results of the checkerboard resolution test for S-wave velocity