

APPENDIX TO

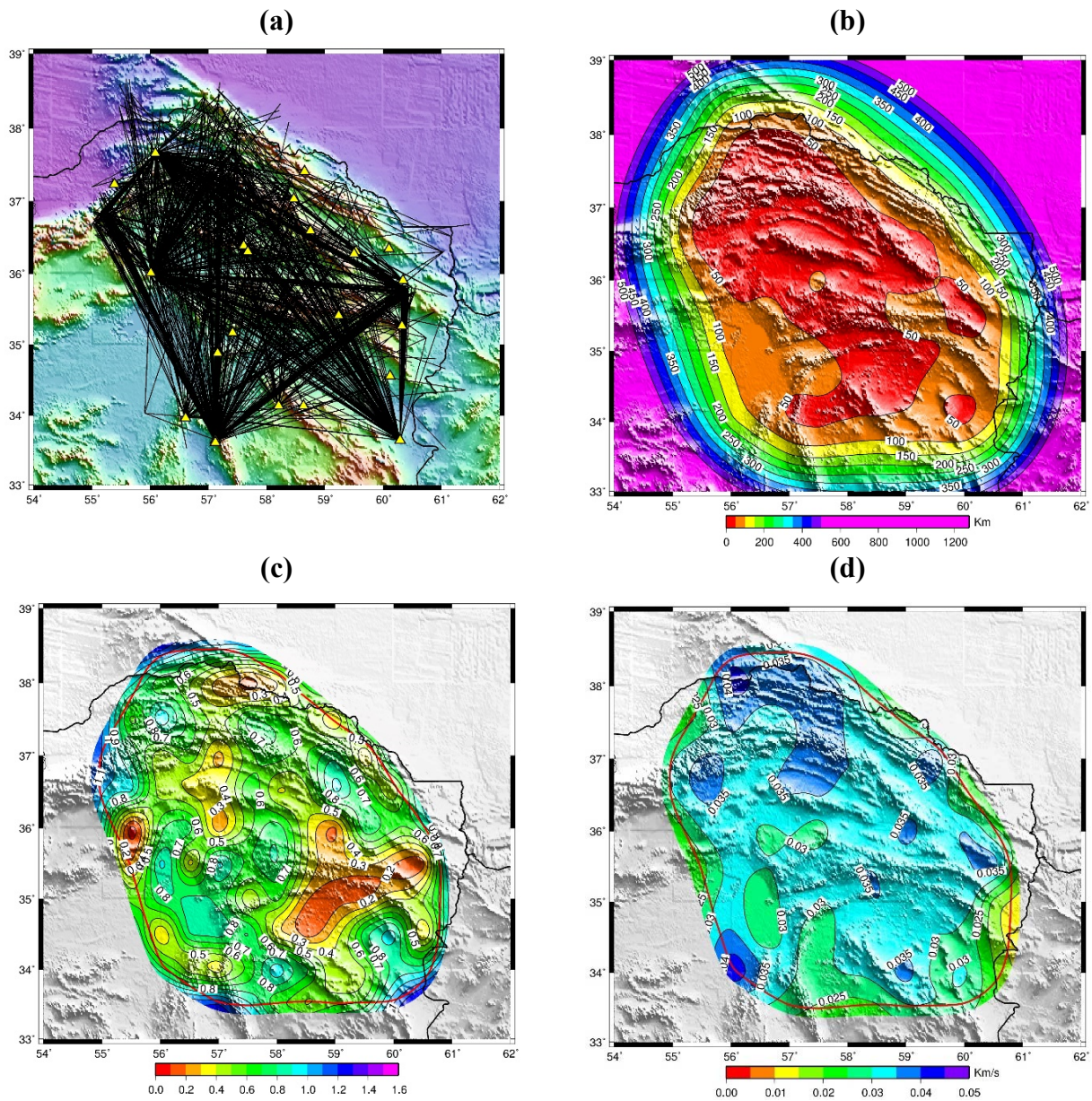
CRUSTAL AND UPPERMOST MANTLE SHEAR-WAVE VELOCITY STRUCTURE BENEATH THE NORTHEASTERN IRANIAN PLATEAU USING AN ANALYSIS OF RECEIVER FUNCTION AND SURFACE-WAVE TOMOGRAPHY

Fatemeh Roostae¹, Gholamreza Mortezaejad²,
Habib Rahimi¹, AliGholami³

¹ Institute of Geophysics, University of Tehran, Tehran, Iran

² School of Earth Sciences, Damghan University, Damghan, Iran

³ Institute of Geophysics, Polish Academy of Sciences, Warszawa, Poland



Crustal and uppermost mantle shear-wave velocity beneath the Northeastern Iranian Plateau

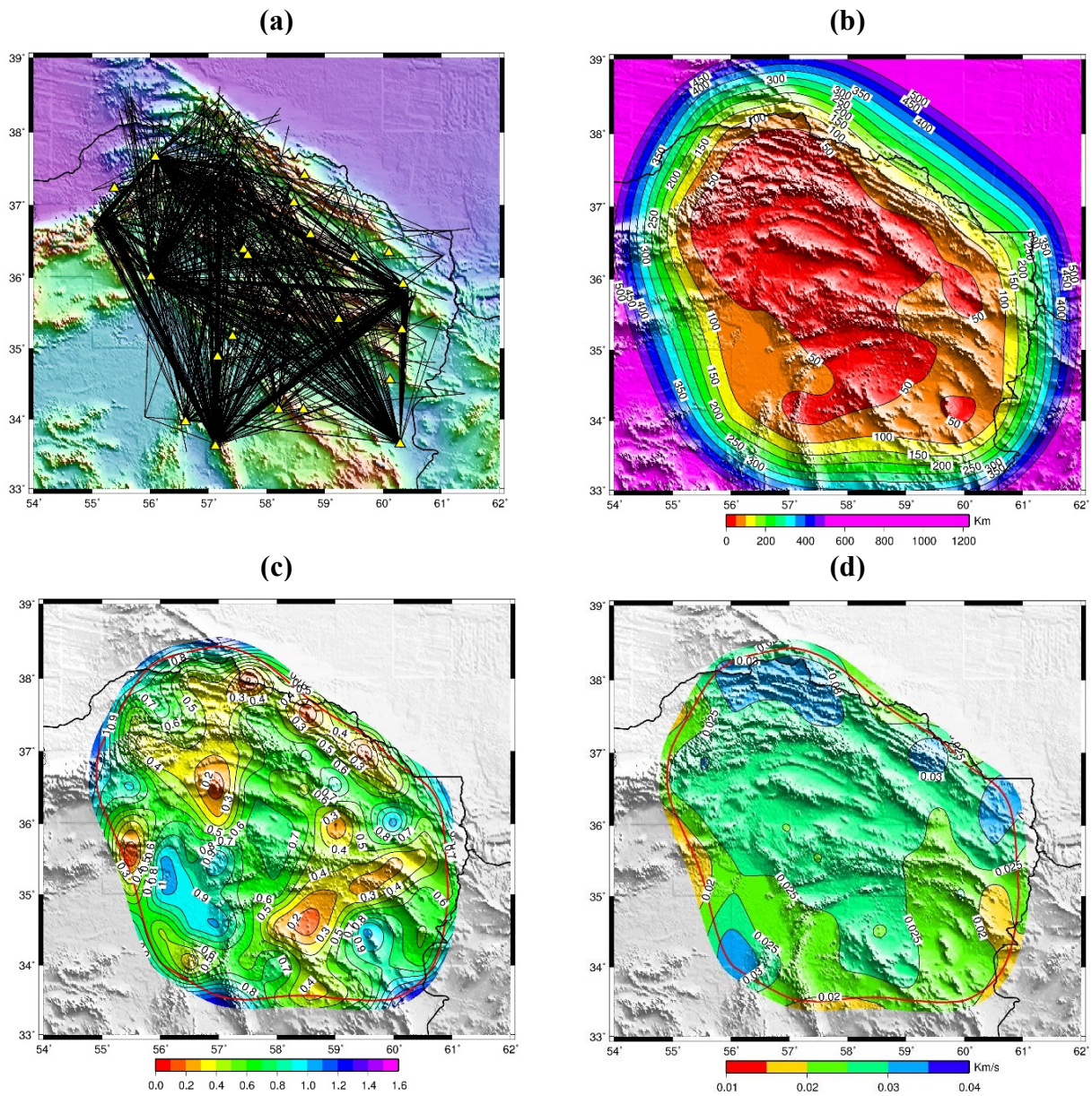


Figure 2. Distribution of parameters for controlling the quality of tomographic maps for a period of 10 s. (a) Ray path distribution; (b) averaging area; (c) stretching parameter; (d) estimated errors. In (c) and (d), the images are clipped by averaging area contour line of 200 km while the 150 km contour line is plotted by solid red line.

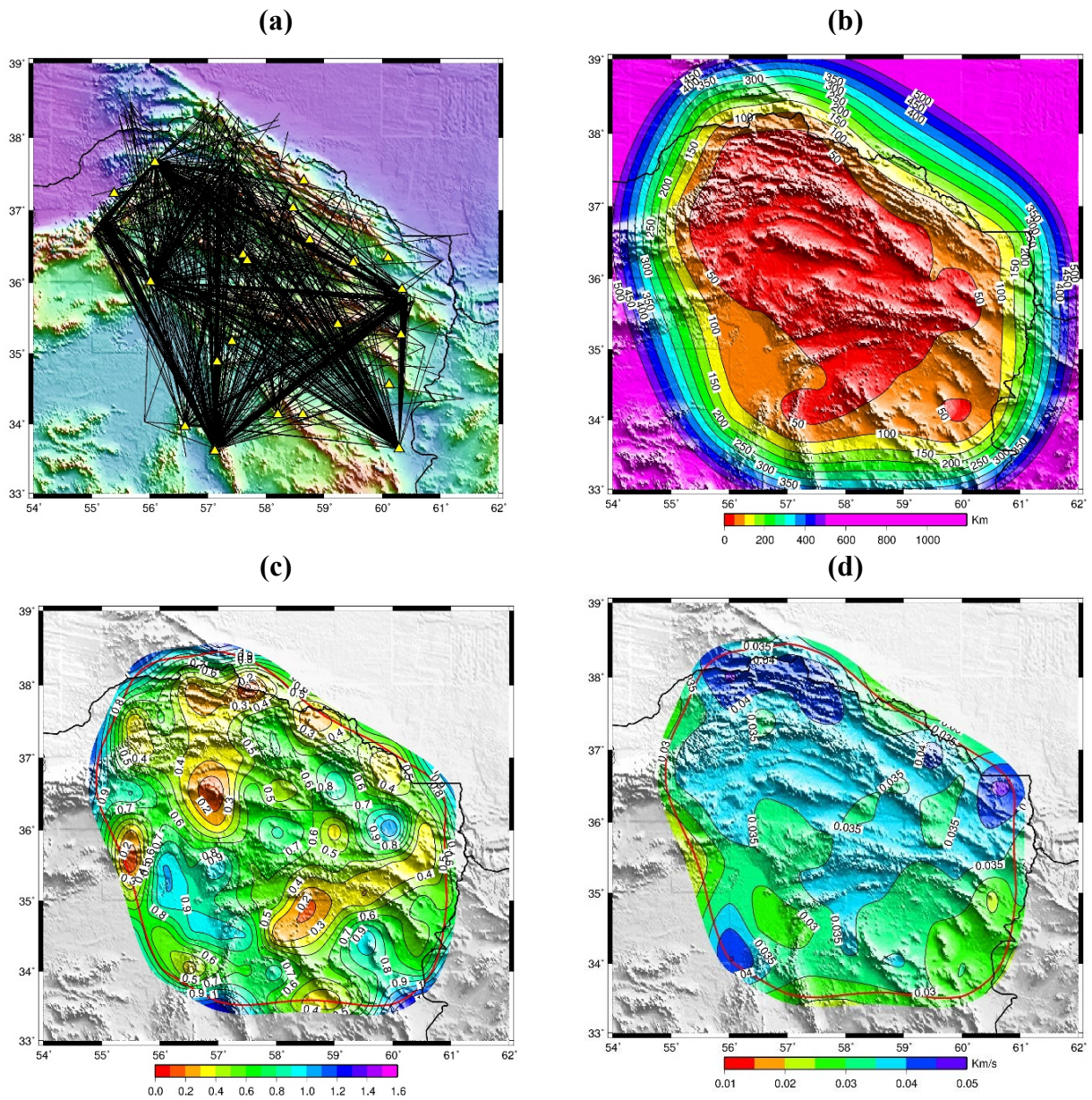


Figure 3. Distribution of parameters for controlling the quality of tomographic maps for a period of 15 s. (a) Ray path distribution; (b) averaging area; (c) stretching parameter; (d) estimated errors. In (c) and (d), the images are clipped by averaging area contour line of 200 km while the 150 km contour line is plotted by solid red line.

Crustal and uppermost mantle shear-wave velocity beneath the Northeastern Iranian Plateau

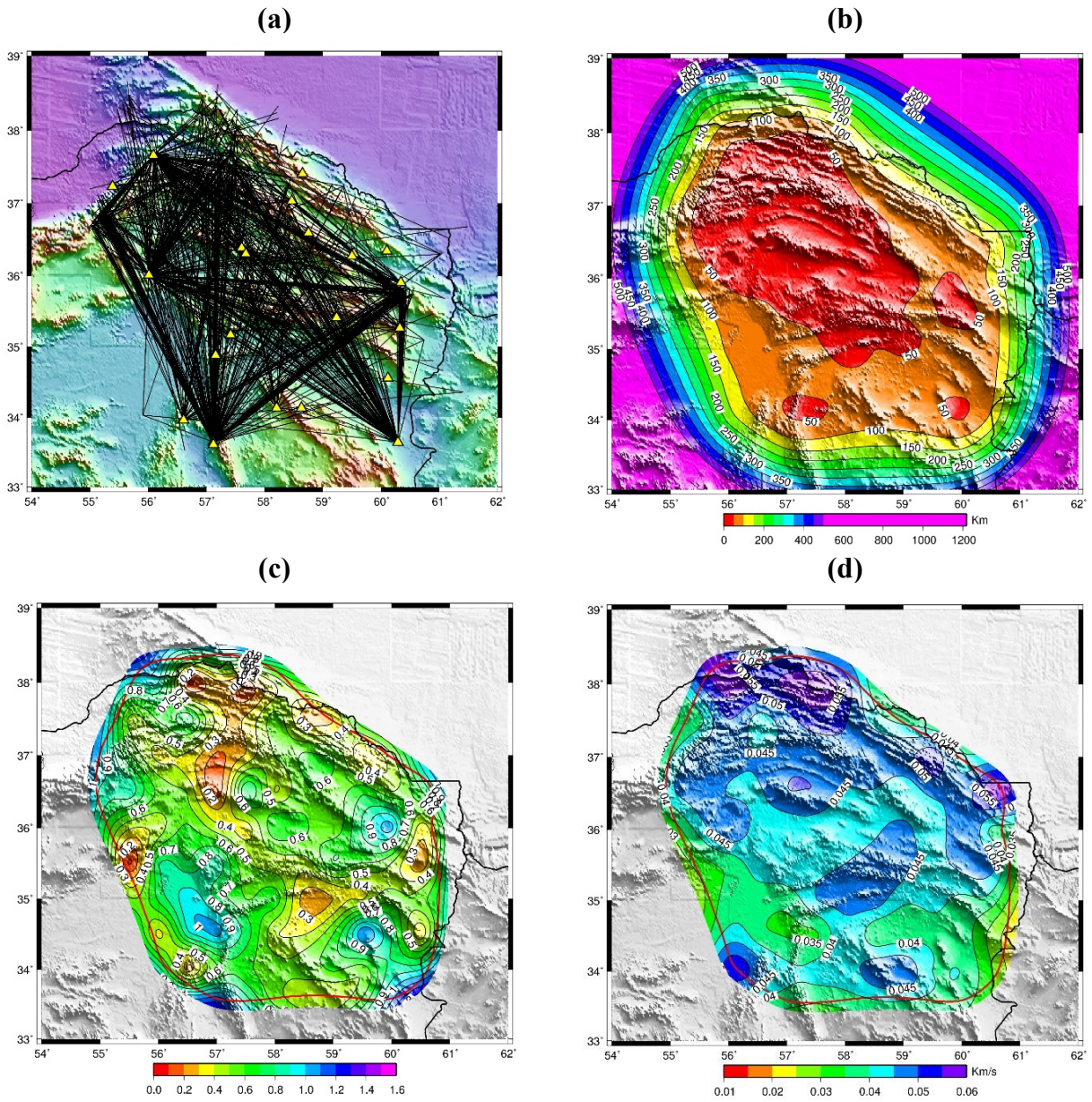


Figure 4. Distribution of parameters for controlling the quality of tomographic maps for a period of 25 s. (a) Ray path distribution; (b) averaging area; (c) stretching parameter; (d) estimated errors. In (c) and (d), the images are clipped by averaging area contour line of 200 km while the 150 km contour line is plotted by solid red line.

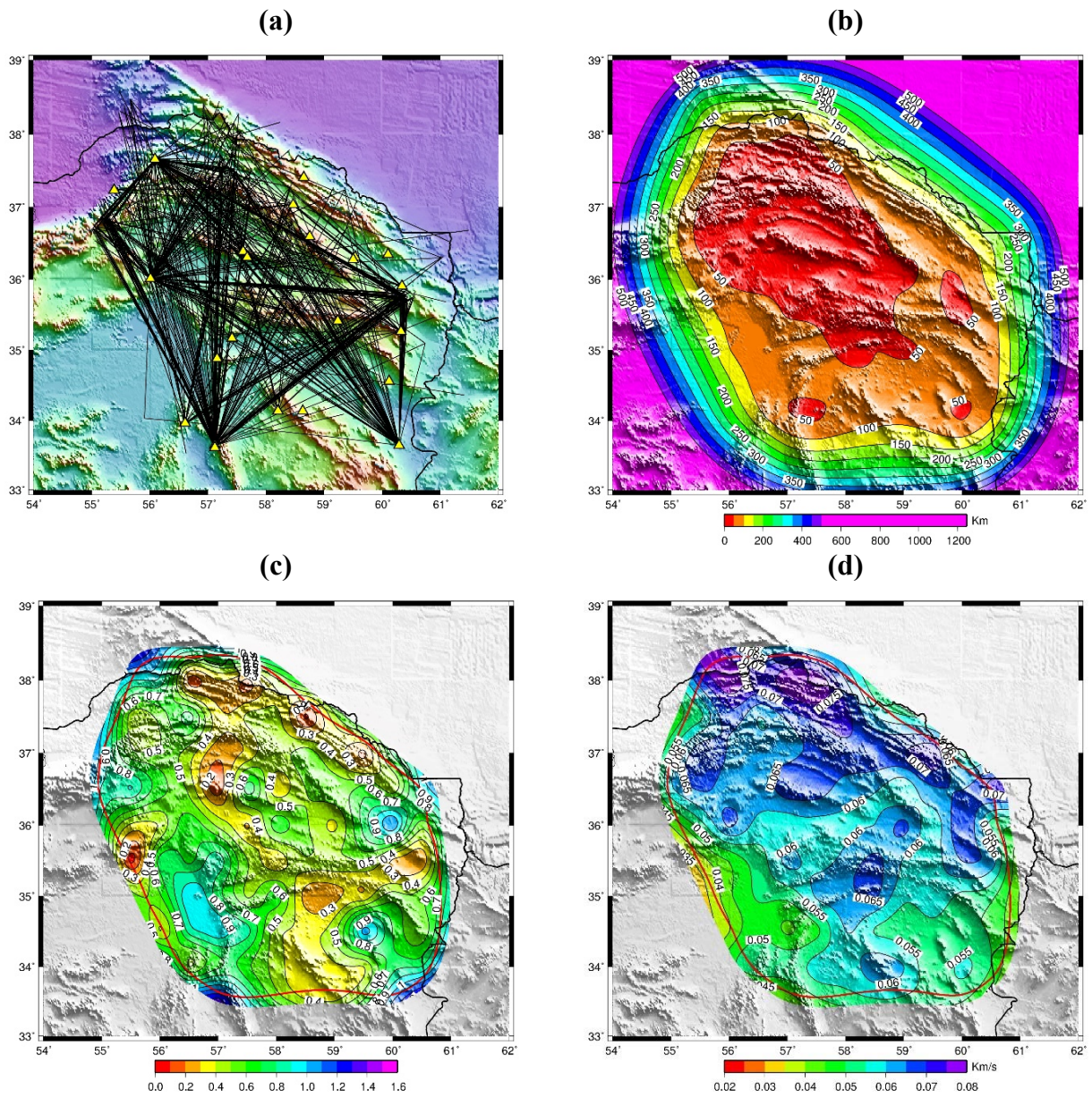


Figure 5. Distribution of parameters for controlling the quality of tomographic maps for a period of 30 s. (a) Ray path distribution; (b) averaging area; (c) stretching parameter; (d) estimated errors. In (c) and (d), the images are clipped by averaging area contour line of 200 km while the 150 km contour line is plotted by solid red line.

Crustal and uppermost mantle shear-wave velocity beneath the Northeastern Iranian Plateau

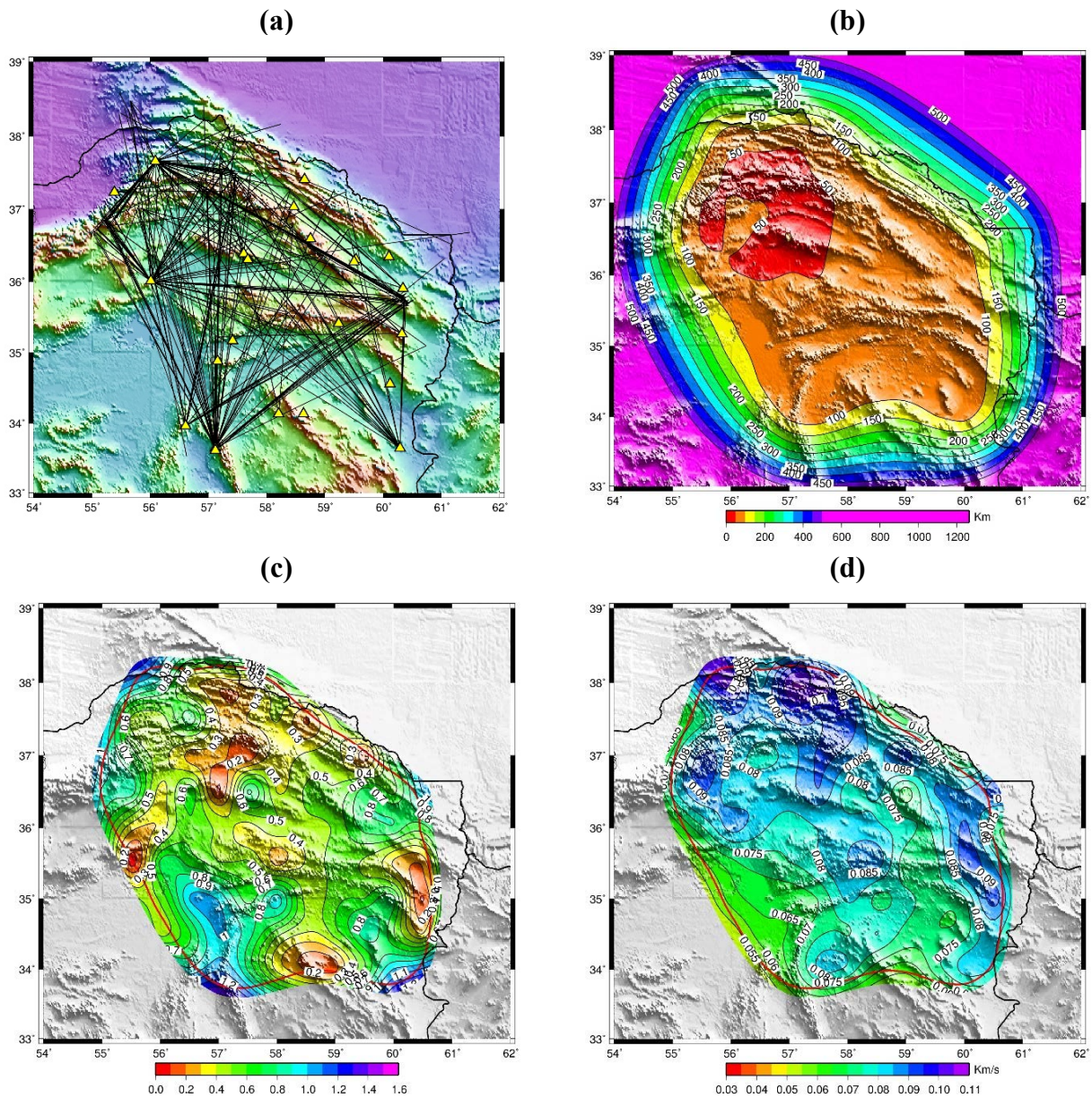


Figure 6. Distribution of parameters for controlling the quality of tomographic maps for a period of 40 s. (a) Ray path distribution; (b) averaging area; (c) stretching parameter; (d) estimated errors. In (c) and (d), the images are clipped by averaging area contour line of 200 km while the 150 km contour line is plotted by solid red line.

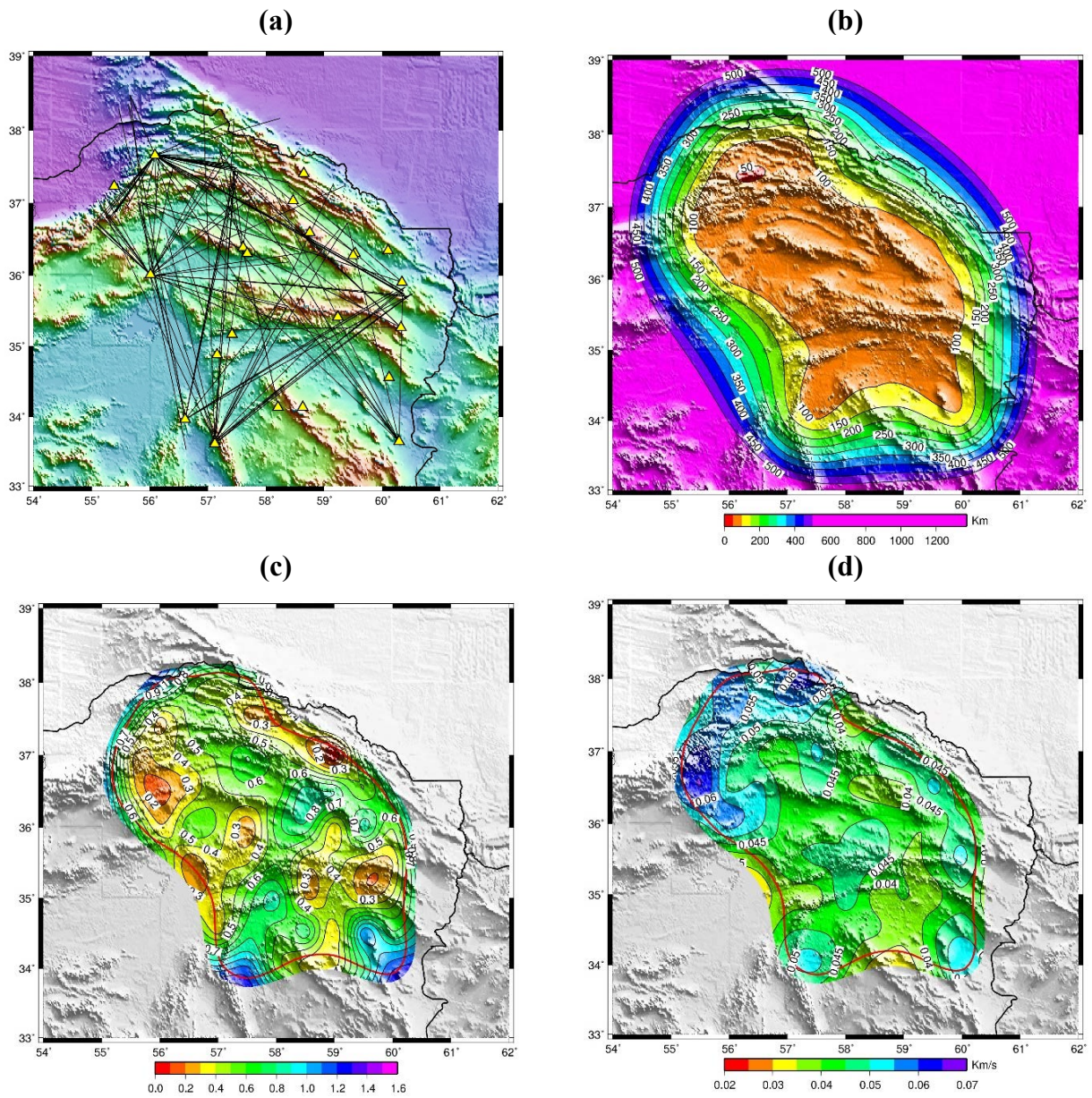


Figure 7. Distribution of parameters for controlling the quality of tomographic maps for a period of 50 s. (a) Ray path distribution; (b) averaging area; (c) stretching parameter; (d) estimated errors. In (c) and (d), the images are clipped by averaging area contour line of 200 km while the 150 km contour line is plotted by solid red line.

Crustal and uppermost mantle shear-wave velocity beneath the Northeastern Iranian Plateau

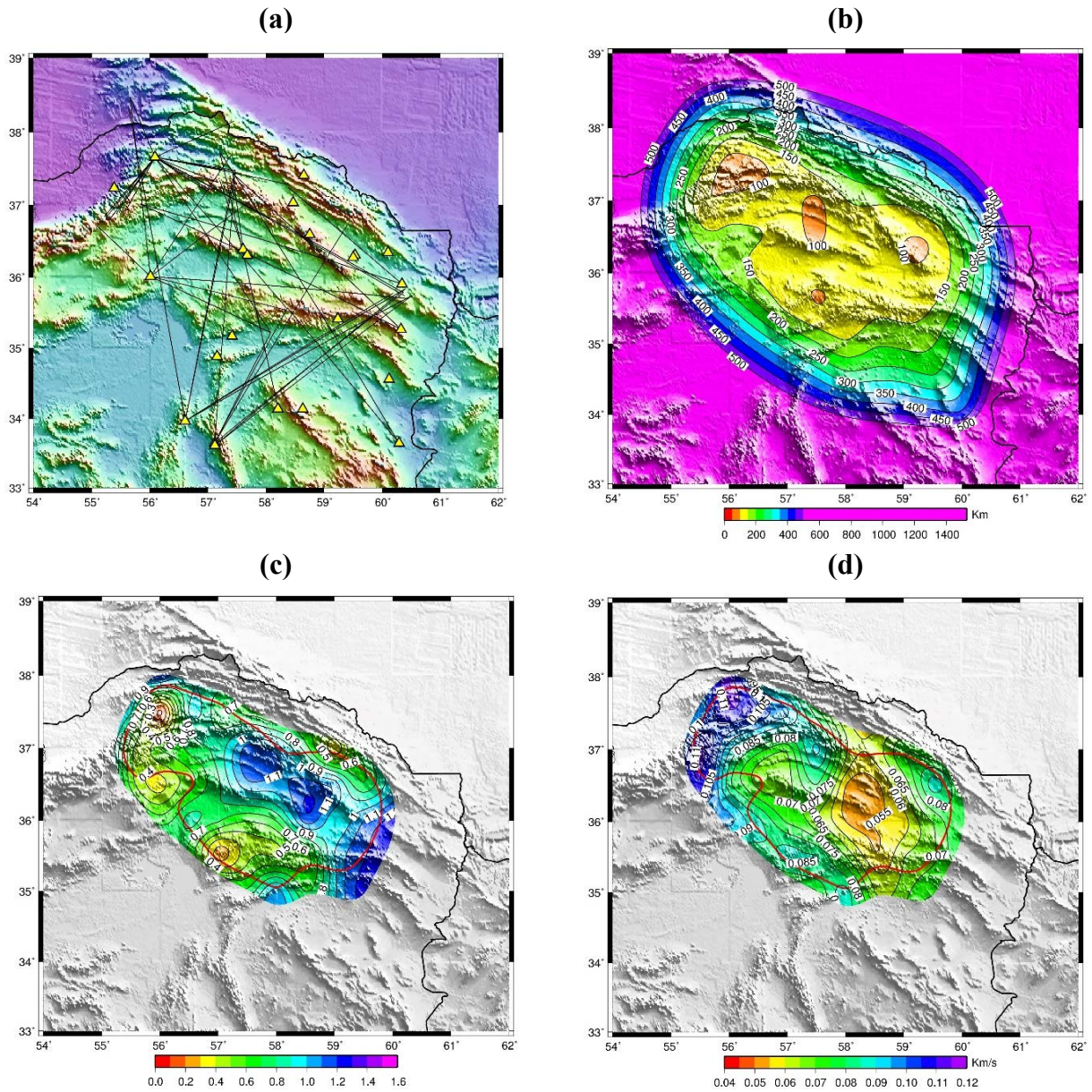


Figure 8. Distribution of parameters for controlling the quality of tomographic maps for a period of 60 s. (a) Ray path distribution; (b) averaging area; (c) stretching parameter; (d) estimated errors. In (c) and (d), the images are clipped by averaging area contour line of 200 km while the 150 km contour line is plotted by solid red line.

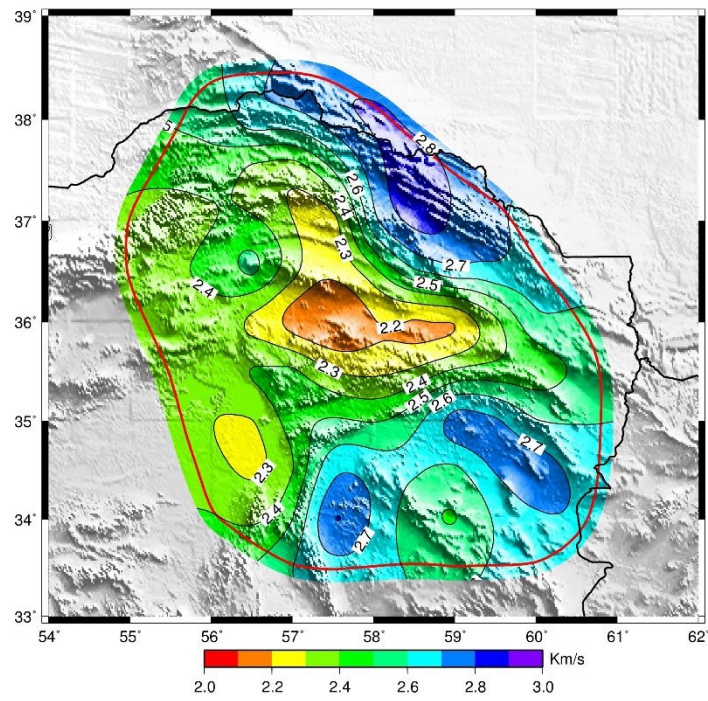


Figure 9. Tomographic map of Rayleigh wave group velocities for a period of 5 s. The image is clipped by averaging area contour line of 200 km while the contour line of 150 km is plotted by solid red line.

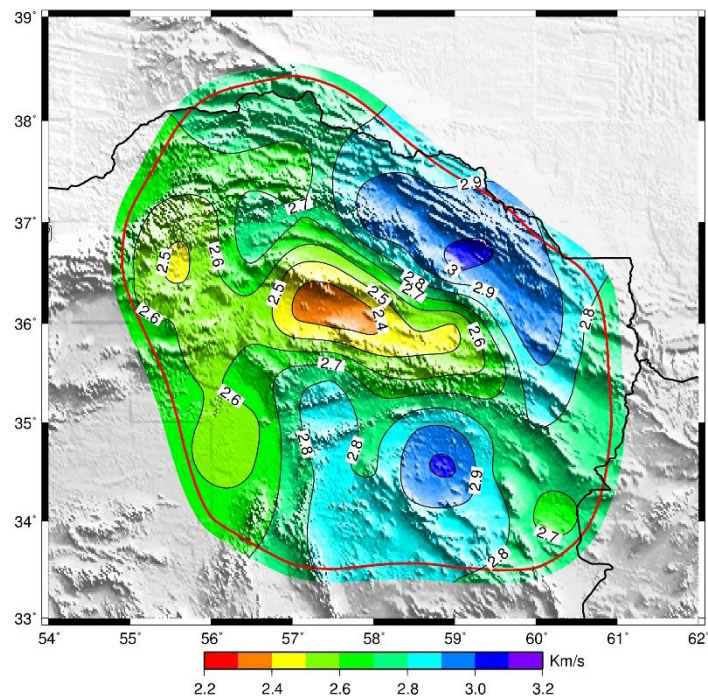


Figure 10. Tomographic map of Rayleigh wave group velocities for a period of 10 s. The image is clipped by averaging area contour line of 200 km while the contour line of 150 km is plotted by solid red line.

Crustal and uppermost mantle shear-wave velocity beneath the Northeastern Iranian Plateau

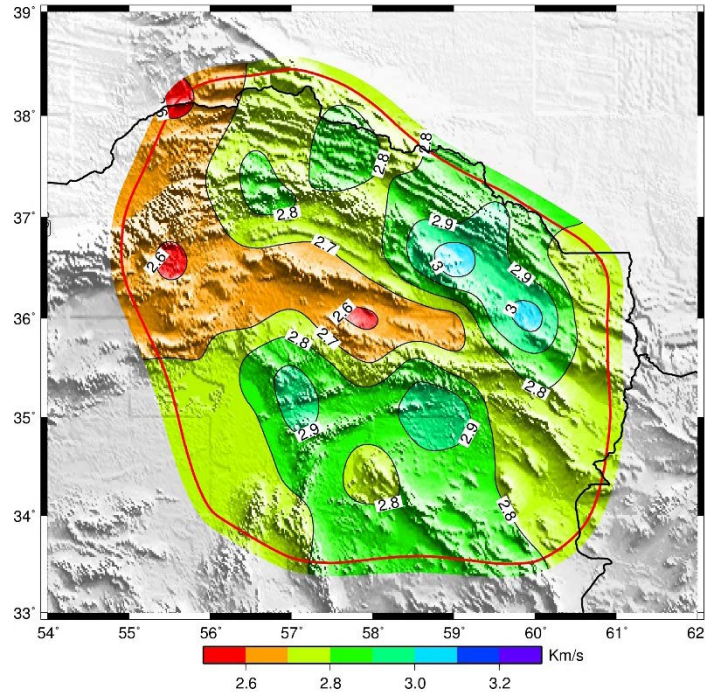


Figure 11. Tomographic map of Rayleigh wave group velocities for a period of 15 s. The image is clipped by averaging area contour line of 200 km while the contour line of 150 km is plotted by solid red line.

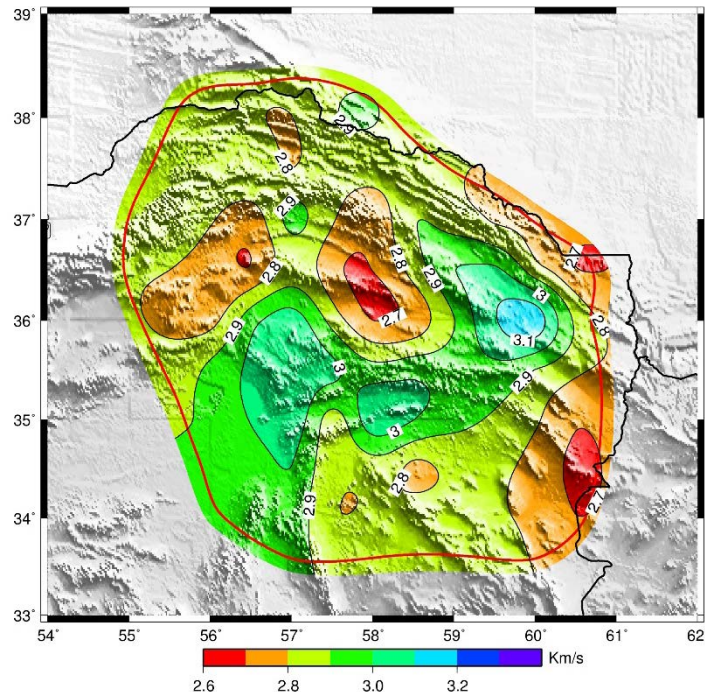


Figure 12. Tomographic map of Rayleigh wave group velocities for a period of 25 s. The image is clipped by averaging area contour line of 200 km while the contour line of 150 km is plotted by solid red line.

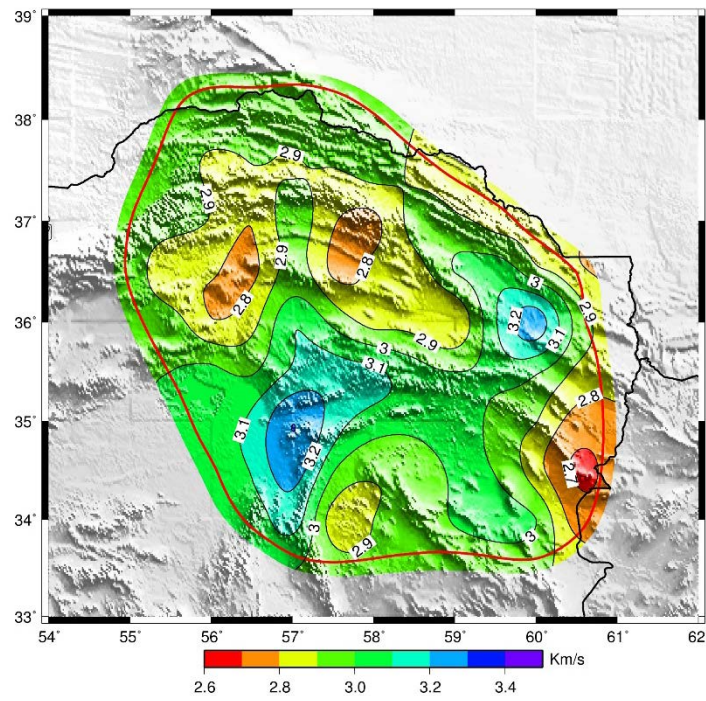


Figure 13. Tomographic map of Rayleigh wave group velocities for a period of 30 s. The image is clipped by averaging area contour line of 200 km while the contour line of 150 km is plotted by solid red line.

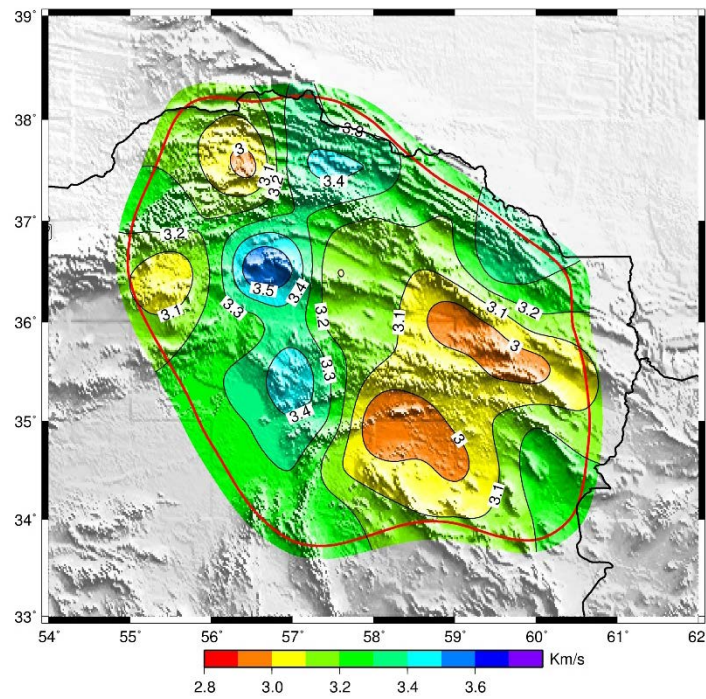


Figure 14. Tomographic map of Rayleigh wave group velocities for a period of 40 s. The image is clipped by averaging area contour line of 200 km while the contour line of 150 km is plotted by solid red line.

Crustal and uppermost mantle shear-wave velocity beneath the Northeastern Iranian Plateau

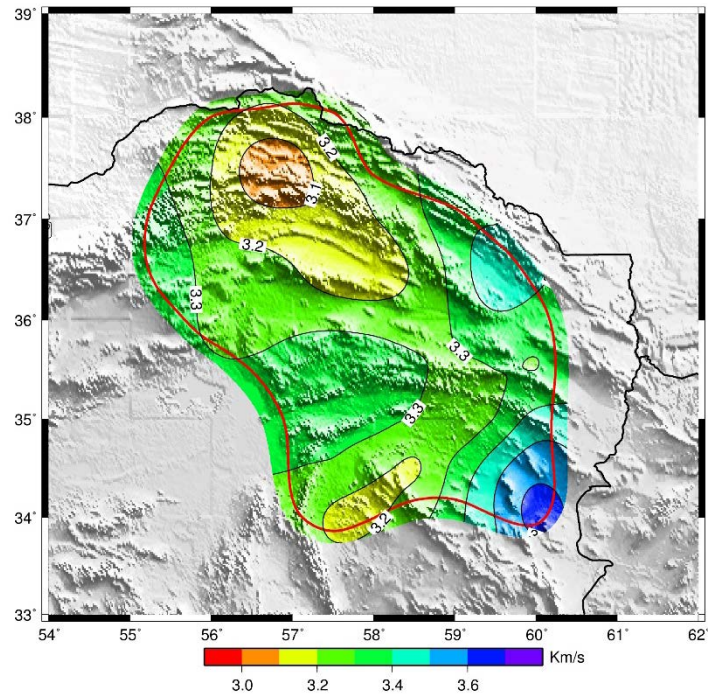


Figure 15. Tomographic map of Rayleigh wave group velocities for a period of 50 s. The image is clipped by averaging area contour line of 200 km while the contour line of 150 km is plotted by solid red line.

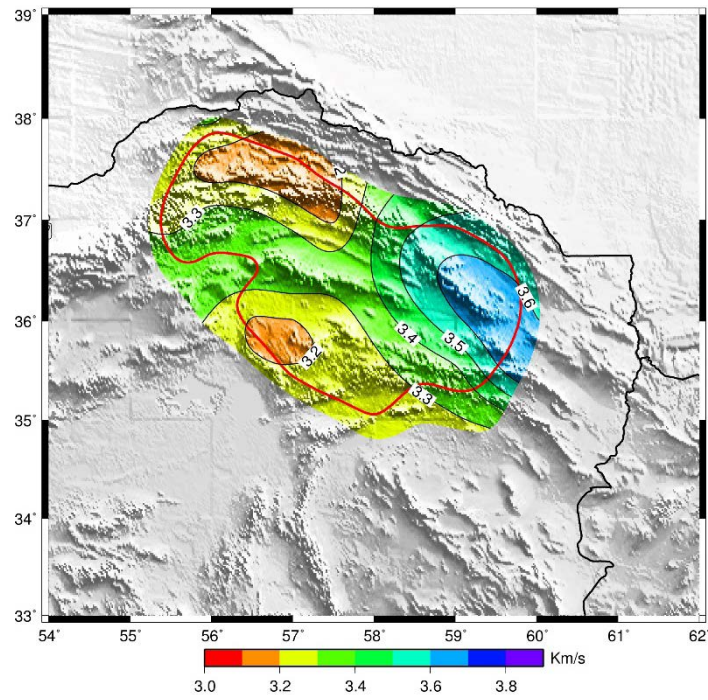


Figure 16. Tomographic map of Rayleigh wave group velocities for a period of 60 s. The image is clipped by averaging area contour line of 200 km while the contour line of 150 km is plotted by solid red line.