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Pn Travel Time Tomography of Turkey and Surrounding

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We determined Pn velocities in Turkey and surroundings using the earthquakes which occurred between the years 1999-2008. More than 600 earthquakes with magnitudes greater than 4.0 were selected for the analysis and available waveform data were also compiled in order to improve phase readings. More than 300 permanent and temporary seismic stations in the area were used for re-locations. More than 15.000 Pn arrivals recorded at distances greater than 180 km were used for tomographic imaging. Computed Pn velocities for the region were compared to the results of the previous studies. We obtained similar results with greater resolution. Differences of Pn velocities between Eastern Turkey and Western Turkey are clearly observed.