

The Upper Mantle and Transition Zone

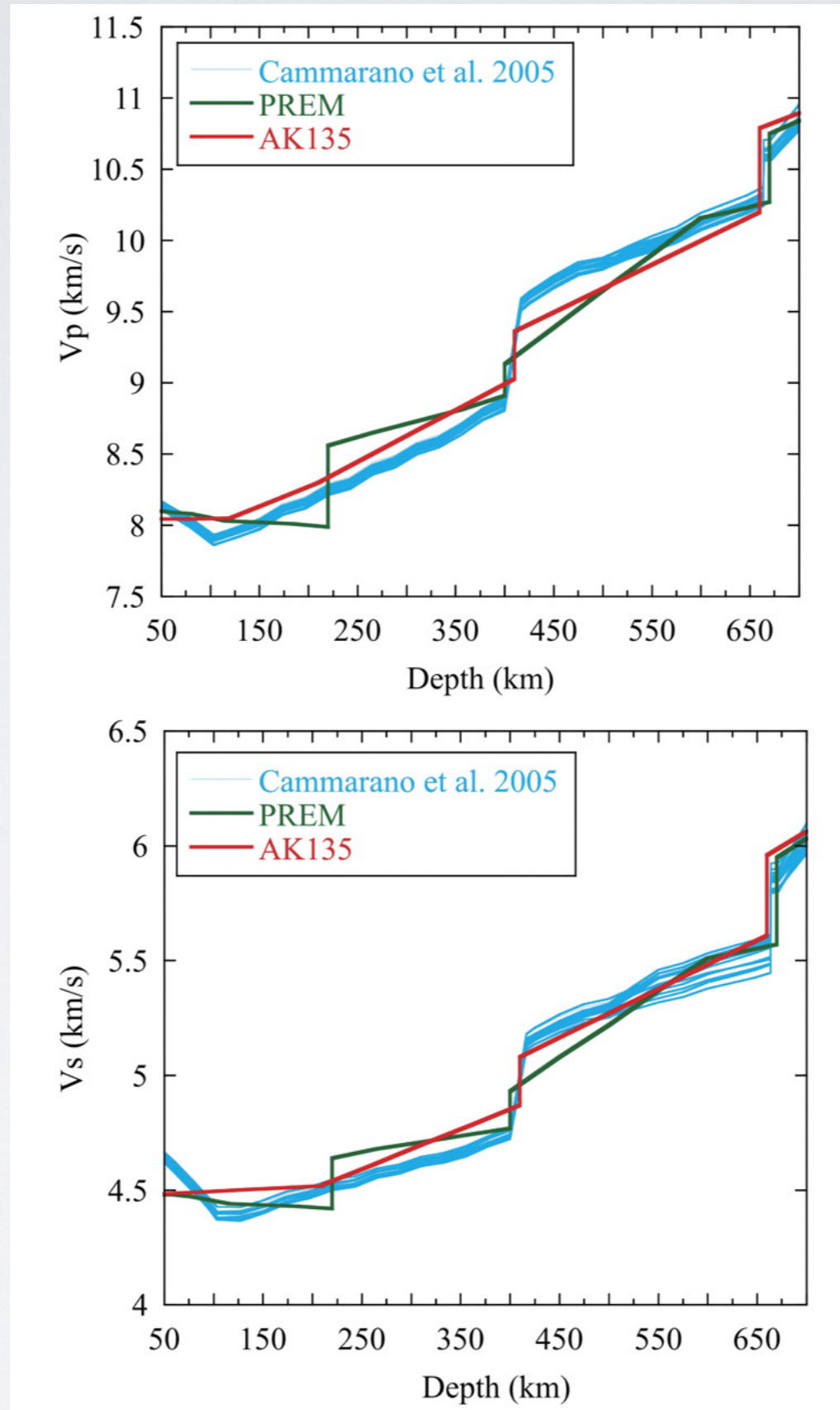


FIGURE 2 Seismic reference models PREM, AK135 and those of Cammarano et al. (2005) showing S- and P-wave velocity structure in the upper mantle and transition zone. The numerous reference models by Cammarano et al. (2005) were obtained by fitting similar global seismic data, as used in PREM, for example, to 1-D velocity models calculated for a pyrolite mineral assemblage by adjusting mineral elastic properties within the range of their uncertainties. The different models therefore arise from the use of slightly different sets of mineral properties, although all models still fit the same seismic data.