

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: Tabulated densities calculated by Perple_X for peridotite, basalt, and alkali basalt for thermal gradients of 5-25 °C/km (shown in Figure 2) and computed mineral modes for peridotite, basalt, and alkali basalt on thermal gradients of 5-25 °C/km (shown in Figure 4).