

Supplementary Figure 1. A representative 2-dimensional X ray diffraction image obtained at 1 GPa and room temperature.

Supplementary Figure 2. Transverse acoustic velocities in polycrystalline stishovite measured in this study as a function of pressure: The values obtained in an additional experiment are plotted as gray circles. The velocity minimum is observed around 27 GPa. The difference between additional data and previous data might be due to the difference of stress condition and/or grain size in the sample. The ruby scale was used for pressure determination.



