Correction to “Sound velocities of ferropericlase in the Earth’s lower mantle”

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[1] In the paper “Sound velocities of ferropericlase in the Earth’s lower mantle” by Jung-Fu Lin, Steven D. Jacobsen, Wolfgang Sturhahn, Jennifer M. Jackson, Jiyong Zhao, and Choong-Shik Yoo (Geophysical Research Letters, 33, L22304, doi:10.1029/2006GL028099, 2006), we regret that a factor of $(1/2)^{1/3}$ was mistakenly unaccounted for in converting the Debye sound velocities to km/s unit. The correct figures of the derived $V_p$, $V_s$, and G are presented here. The derived $V_p$, $V_s$, and G at ambient conditions are now lower than that of ultrasonic measurements. The difference may arise from the choice of the energy range for deriving the Debye sound velocities, in combination with the energy resolution of the partial phonon density of states in our study. Further analyses to resolve the difference are forthcoming and will be presented elsewhere. Other parts of the original article, including the discussion, remain unchanged. Figure 2.

Figure 2