

Errata

Extension-driven right-lateral shear in the Centennial shear zone adjacent to the eastern Snake River Plain, Idaho

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GPE calculations in this article were incorrect, which affected Figure 4, the equation, and the Data Repository. Because the directions of the GPE gradients and the locations of the GPE highs and lows in the corrected maps are very similar to those in the published maps, our conclusions regarding the GPE are unchanged.

1. On page 413, there were errors in the following equation and omissions in the description. The correct equation follows and additions to descriptions are shown in bold.

$$GPE = \int_L^h \rho g(z-L) dz$$

The rock density is expressed by ρ , the acceleration of gravity by g , depth below sea level by z , the reference depth by L , and the elevation above sea level (defined as $z=0$) by h . For all rock columns, the integration is performed to a depth of 50 km (L), below which there are no lateral density differences between the density models (Table 3).

2. Below is the corrected version of Figure 4 to replace the one on page 415.

3. The online Data Repository file has been replaced.

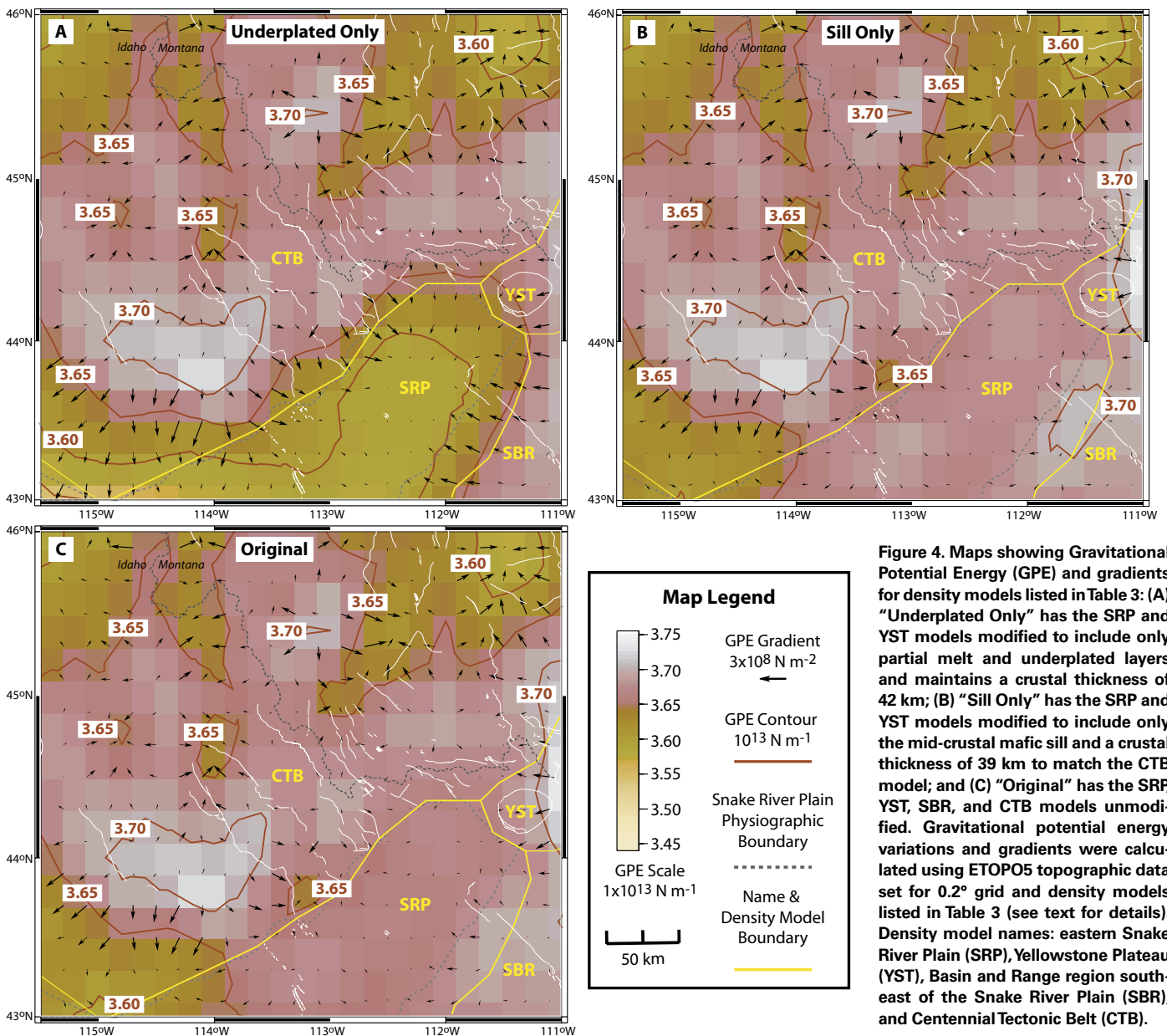


Figure 4. Maps showing Gravitational Potential Energy (GPE) and gradients for density models listed in Table 3: (A) “Underplated Only” has the SRP and YST models modified to include only partial melt and underplated layers and maintains a crustal thickness of 42 km; (B) “Sill Only” has the SRP and YST models modified to include only the mid-crustal mafic sill and a crustal thickness of 39 km to match the CTB model; and (C) “Original” has the SRP, YST, SBR, and CTB models unmodified. Gravitational potential energy variations and gradients were calculated using ETOPO5 topographic data set for 0.2° grid and density models listed in Table 3 (see text for details). Density model names: eastern Snake River Plain (SRP), Yellowstone Plateau (YST), Basin and Range region south-east of the Snake River Plain (SBR), and Centennial Tectonic Belt (CTB).