

Author's Response: Emplacement age of the Sevier Gravity Slide, Utah, USA

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The revised submission addresses the comments and suggestions provided by the reviewers and editor.

First, an additional figure was added to provide the reader with a broader overview of the regional geology and location of the three gravity slides within Utah. This was added as Fig. 1. As such, Fig. 2 was revised to omit redundant information. Subsequent figure numbers were updated throughout the text. As suggested, the plateau diagrams for incremental heating analyses of the pseudotachylyte and Langdon Mountain lava flow were moved from the supplement to the main text, now Fig. 5. Back scatter electron images of the zircon grain mounts were added to the supplement.

In the methods sections, the selection of materials to be analyzed were clarified, and the use of $^{40}\text{Ar}/^{39}\text{Ar}$ and $^{206}\text{Pb}/^{238}\text{U}$ (as opposed to $^{40}\text{Ar}^*/^{39}\text{Ar}$ and $^{206}\text{Pb}^*/^{238}\text{U}$) was made consistent throughout.

All results presented were updated with the statistic “p-value” to help the reader assess the statistical significance of the data. P-values are provided in text and in figures.

As needed, typos were corrected and additional references added.