Dear editor,

Thank you for reading our revised manuscript and for your important comments. As you recommended, a link to the Arc-GIS model files was added in the "Code availability" section of the corrected manuscript. Below are the replies to the comments relating to the technical corrections; comments are in **bold** font, and answers are in regular font.

Sincerely,

Elhanan Harel, on behalf of the authors

Abstract Line 25: Can you add "W" into the equation on the left hand side to make this clearer?

Done.

Line 65: I think you could make the end of the introduction stronger by stating that although tectonic, climatic and lithologic influences on channel width have been explored, there has been little work on the influence of drainage organisation on lateral erosion, and so this is what you set out to do.

Thank you, we added this to lines 67-61 that now read: "While the influence of tectonic, climatic, and lithologic changes on valley and channel width has been extensively explored (e.g., Allen et al., 2013; Keen-Zebert et al., 2017; Marcotte et al., 2021), the effects of drainage reorganization, which imposes drainage area transiency, were mostly overlooked. The current study targets these effects by exploring valley and channel width scaling under transient conditions that emerge from processes of drainage reorganization."

Lines 107 and 124: typo, should be "power law"

Fixed, thank you.

Line 159: remove apostrophe from valleys'

Done.

Line 569: Section 5.5: Change section heading to "Implications for landscape evolution"

Done.

Line 662: I struggled to understand this sentence: do you mean "rates of valley and channel width adjustment"?

We meant rates of divide migration. Accordingly, the phrasing was changed to "And what is the relation between the dynamics and rates of divide migration to the width adjustment of valleys and channels?" (lines 664-665 in the corrected manuscript).

Acknowledgements: typo, should be "George" rather than "Goerge"

Thank you. Fixed.