

Dear Dr. Carretier and co-authors,

After a careful review of the referee comments, your responses, and your revised manuscript, it is my pleasure to request a few quite small revisions. Pending these, I think that it will be ready for publication.

Thank you !

Line 64: Unindent. Also: your definition of ϵ_h should (I think) be written to note the orientation dependence of the surrounding slope. Because you are using slope (is this the absolute value of the gradient?) and you term κ as an erodibility, it is not quite clear whether you allow deposition via this method or if (perhaps) a "pit" cell (all slopes going towards it) might still be able to lower because of the slopes around it, rather than filling in. My guess is that your code allows only erosion in this component, and checks the for downwards slopes from this cell, while allowing your deposition term to handle deposition within the cell. Perhaps you could refine this explanation?

OK we added :

« S is the slope (absolute value of the elevation gradient) towards the downstream cell in the steepest direction, (...). There is no erosion in a pit cell, only deposition. »

Line 340: sensible --> sensitive. (I always have to check myself in Latin languages, from the other side of this!)

Thank you.

Figure 3: It looks like the "dynamic equilibrium" labels are applied to times at which the landscape is still approaching, but close to, a dynamic equilibrium. This comment from me is because I am teaching Geomorphology right now, and based on student questions, am feeling a push towards precision in our language.

OK we reworded as « close to dynamic equilibrium. »

Line 287: left the model grid definitively

Added.

I am very glad for Figure 7 (scale impacts) and considerations of transience.

Thank you !

We have also checked that colors in our figures allow readers with colour vision deficiencies to correctly interpret our finding.

Best wishes,
Andy Wickert

Additional private note (visible to authors and reviewers only):

Dear Dr. Carretier and co-authors,

In addition to the above note, I wanted to share my deep apology for the time that this response has taken. I was managing a back injury and a COVID infection between the time of your resubmission and now. I am going as quickly as I can through the backlog.

No problem, time is an issue for all of us. Thank you for this editing work. We wish you a rapid recovery.

Thank you for your diligent work to produce a high-quality manuscript; I am glad to see the explicit inclusion of measurable quantities in our landscape-evolution models.

Best wishes,
Andy