Dear Clément et al.,

I’d like to thank you for submitting your manuscript to ESurf. I think the careful field data collection to calibrate the modelling is a real strength of your paper. I would encourage you to carefully read and respond to the reviewer comments, as well as my additional comments below, while preparing a revised manuscript. Note that there is a suggestion to incorporate additional literature: the addition of this literature is, in my opinion, well-reasoned and would improve the manuscript. However, it is up to your discretion whether or not you choose to include it.

Best wishes,
Fiona

**General points:**

Has there been evidence of divide migration or capture events in the Massif Central? This would affect the erosion rates, discharges and channel widths observed in the dataset.
There’s not necessarily additional analysis to do for this but it would be worth discussing in any case.

Is the current discharge variability of the region representative of long-term variability over the Quaternary?

It’s interesting in the denudation modelling that the free scaling parameters ends up predicting a lower D50 compared to the field measurements. I wondered whether this reflects the fact that the grain sizes are surface measurements through bedload counts, and therefore might reflect armouring of the bed and not be representative of the true D50.

The fact that denudation rate increases so clearly with basin runoff and yet does not correlate well with ksn is an interesting result, and I think could be made more of in the paper. I would suggest moving the denudation rate-runoff relationship in the supplement to the main text to highlight your discussion that in this landscape (non-tectonically active), denudation rate is more clearly controlled by precipitation than by slope.

**Specific points:**

When calculating discharge distributions, how was the high discharge part of the distribution determined to fit the power law? I think a figure illustrating the method here would be helpful.

Figure 3: can you annotate the plots with ‘Most variable’ to ‘Least variable’ to make it clearer?

Many figures have labels and font sizes that are too small e.g. Figure 1, 5, 6, 8. Please go through all figures and check the font and figure sizes for readability.