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Interactive comment on “Constraining the Stream Power Law: a novel approach combining a Landscape Evolution Model and an inversion method” by T. Croissant and J. Braun

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I found this paper very insightful, for 1) its quick and clear review of the Stream Power Law (SPL), 2) the parametrization of the problem using a novel Landscape Evolution Model (LEM), coupled with an efficient inversion algorithm, and 3) applying this to a natural object in New Zealand. The authors are very well aware of the limitations of their approach (steady state assumption, transport-limited or hillslope-controlled portion of the landscape, importance of the fracture density on K...) and successfully manage to discuss their findings under the shade of these limitation, with no prejudice.

Minor comments on the figures: Fig 5: I could be worthwhile to locate on a larger-scale

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map the studied catchment, for readers unfamiliar with NZ. Fig 6b, I guess that "K" (y-axis) should be "log K" (by the way, on the other figures, k is expressed in natural scale).

Interactive comment on Earth Surf. Dynam. Discuss., 1, 891, 2013.

ESurfD

1, C334–C335, 2013

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