

Supplement of: TTLEM 1.0: A numerical package for accurate simulation of transient landscape evolution in MATLAB

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This supplement describes the movies referred to in the text of the paper.

Movie S1. Steady state river networks obtained with different model configurations for model runs initiated from a flat, zero elevation surface. The ages are given in the title of the subplots. The configuration of the different model simulations is explained in the text and parameter values are listed in Table 1.

Movie S2. Steady state river networks obtained with different model configurations for model runs initiated from a surface with elevations randomly varying between 0 and 50 m. The configuration of the different model simulations is explained in the text and parameter values are listed in Table 1.

Movie S3. A synthetic steady state landscape produced as the testing environment to verify and compare the different numerical schemes implemented in TTLEM. Model runtime was 150 Myr, uplift rate was assumed to be spatially uniform over the area (block uplift) and fixed to 10^{-3}m yr^{-1} . Other model parameter values are listed in Table 1.