

Interactive comment on “Geomorphic signatures of the transient fluvial response to tilting” by Helen W. Beeson and Scott W. McCoy

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I've added another Eocene-Oligocene deposit elevation to the authors' S FK American River figure. This shows that, near the black arrow on the authors' figure, maximum incision depths in this area since the Eocene-Oligocene cannot exceed ~225 m. The elevation for this comes from mining tunnel data presented in Lindgren (1911) - it can be found on page 180. Note, these data suggest a possible avulsion event; however, the important point to recognize is that the S Fk American River was already within 225 m of its modern depth 40 Ma. Moreover, once these old and deep deposits are recognized, it is difficult to see how recent tilt information can be extracted from the inset graph.

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Interactive comment on Earth Surf. Dynam. Discuss., <https://doi.org/10.5194/esurf-2019-24>, 2019.

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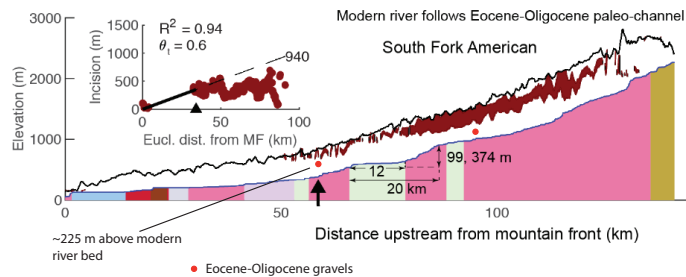


Fig. 1.