

Review by Leif Anderson

The authors done an admirable job improving the manuscript and addressed the reviewers' comments and suggestions in a comprehensive manner. I am happy to recommend this substantial contribution for publication after a few minor presentation issues are addressed.

The figures are very clear and communicate the results well. The manuscript will be even more well received if a bit more time is spent on the text. Below I suggest in some places splitting long paragraphs in two and synthesizing and simplifying text in some places.

It was a pleasure reviewing your research. Well done!

#### Minor suggestions

Line 32-50 consider breaking this into two paragraphs for easier reading and communication of the main points here.

Line 33. suggest a rewrite from "as diagnostic for" to "to be diagnostic of"

Line 37. consider 'in a delayed fashion' instead of 'attenuated and delayed'

Line 66 perhaps consider reword of 'Holocene-long development' to 'development through the entire Holocene'

Line 98 This sentence would be more effective if the list came second and the use of the methods came first.

Line 118-19. Very slick!

196. Consider breaking this paragraph up into a couple.

209. 'evidence' does not seem to be the right word here. Maybe 'to confirm the presence of a shear layer'? Also a citation to other work where a shear layers are present would be good here.

Figure 2. I think a figure title is needed here. Plus unbolded text I believe for figure captions.

Figure 3. Very nice figure.

Figure 4. the utm distances on the x and y are hard to read as are the contour labels. I would suggest removing the utm labels as there is a scale bar in the figure already. Photo views are really well done here.

359. 'looking at' is a bit casual, perhaps 'interpreting' ?

Table 1. If there is space adding a column for the unit number would be helpful. But not necessary.

390. Consider a more technical term for 'matched' here

Table 4 is very helpful for the reader.

548. All the info is good here but it I wonder if the take homes can be simplified a bit here. It is not totally clear after going through the paragraph.

685. Need an 'a' between 'as' and 'stress'

Line 757. Anderson, L.S. should be inserted as the second author here.