

Ocean Sci. Discuss., referee comment RC2
<https://doi.org/10.5194/os-2022-3-RC2>, 2022
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Comment on os-2022-3

Anonymous Referee #2

Referee comment on "Attributing decadal climate variability in coastal sea-level trends" by Sam Royston et al., Ocean Sci. Discuss., <https://doi.org/10.5194/os-2022-3-RC2>, 2022

The authors showed the effect of climate modes on the decadal sea level rise in the coast using the sea level modeling results of the high-resolution ocean model and the CMIP6 models. In general, the ideas are clear and scientifically supported. However, some corrections are suggested to aid the reader's understanding.

- Why don't the authors show the mean value of decadal trends in Figure 1 or 2?
- In Figure 1, there is not enough explanation for each panel. Adding more information about each picture to the picture caption is suggested.
- In Figure 2, since opaque rectangles are overlapped, information distortion is possible. Instead, it is recommended to minimize the overlap by averaging several boxes.
- It is proposed to add the total sea level rise rate to Figure 2. If the sea level rise rate is very low, this classification may not have much meaning.
- In Figure 3, it is proposed to verify and show the results of reconstruction and NEMO for Tide Gauge. The authors did not show their level of accuracy.