Comment on gmd-2022-96
Anonymous Referee #1

Accurate estimation of parameter has drawn much attention to reduce uncertainty in model projections. The idea that combining terrestrial biosphere model with a data-driven machine learning method to invert spatial parameter is interesting. The two-step framework proposed by the authors optimized spatial parameters effectively which are quite different from the default values, and reduced the simulation errors of the GPP and LAI markedly. This manuscript provided a good case study to apply remote sensing products for pixel-level parameter optimization to reduce uncertainty in current model framework. I think the paper has reached the level to be published.