

Earth Syst. Sci. Data Discuss., referee comment RC1
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Comment on **essd-2021-10**

Anonymous Referee #1

Referee comment on "Spatially explicit global gross cell product (GCP) data set consistent with the Shared Socioeconomic Pathways" by Tingting Wang and Fubao Sun, Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2021-10-RC1>, 2021

In this article, the authors have produced a set of spatially explicit global GDP based on SSP scenarios. This could be an interesting publication if the authors can improve the novelty of this approach. The authors can also improve the paper in many other ways. First of all, the authors could provide a better introduction for SSP. For example, what are the five SSP scenarios and why they are significant. In addition, the organization could also be improved. The authors have discusses different terms and policies, but there is a very poor transition between paragraphs. In addition, there is a lack of novelty for the method. Furthremore, the authors need to check the writing and grammar. For example, in the abstract, "ScenarioMIP" is not explained; line 120 - "with other auxiliary information but are not open accessed."; Line 133 - you used "population count (density)" and in line 158 you separated the terms "population count, population density", any significance?; Line 846 - are the 846 RMSE(s).