

Based on the intelligent dasymetric mapping (IDM) method, the authors generated a set of high resolution population density product by using various datasets. This is interesting and significant since population change impacts almost every aspect of global change. However, it is noteworthy that the method described in this paper is not clear. To make it more persuasive, some suggestions includes: 1) To better present how the data was processed and used, a flow chart is recommended; 2) It's better to list the spatial resolution for the raster data, and the feature types of vector data, such as point, line or polygon.

We thank the reviewer for their constructive comments and time spent with our paper. We agree with the reviewer's recommendations to clarify our methods. We updated Table 1 to include information on data types, resolution of input datasets, and clearer descriptions of IDM use. Additionally, we differentiated our vector (section 3.1) and raster (new section 3.2) pre-processing steps for identifying uninhabited areas and provided clearer descriptions for those steps. Finally, we have added Figure 1 to provide a better explanation of our workflow.