

## ***Interactive comment on “An extended time-series (2000–2018) of global NPP-VIIRS-like nighttime light data from a cross-sensor calibration” by Zuoqi Chen et al.***

### **Anonymous Referee #2**

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This paper introduces an extended time-series (2000-2018) of NPP-VIIRS-like NTL data through a cross-sensor calibration from DMSP-OLS NTL data (2000-2012) and a composition of monthly NPP-VIIRS NTL data (2013-2018). The authors claim that compared with the annual composited NPP-VIIRS 20 NTL data in 2012, their product of extended NPP-VIIRS-like NTL data shows a good consistency at the pixel and city levels with  $R^2$  of 0.87 and 0.95, respectively. The paper is well organized and written clearly, and the data set should be of interest to users who use the NTL data. Therefore, the paper should be accepted for publication after the follow issue is addressed.

It is strongly recommended that a short description of the uniqueness of the method

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used should be included in the abstract. The current abstract only tells the reader that there is a new product and it is better, but it fails to say what it is and how it is produced. For example, if the uniqueness is that they relied on the vegetation index adjusted NTL to perform the simulation, it should say so up front in the abstract, so that readers can get the main point without having to read the entire paper. Other than that, the paper is well written.

Thanks.

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