Dear reviewer,

Thank you very much for your constructive comments and suggestions for this article, which have greatly helped us to further improve the article. We have considered the comments very seriously and revised the manuscript accordingly.

The replies are as follows:

Response to Reviewer 1 Comments

**Point 1:** There is not a methodological flow so it is hard to read the flow of the method

**Response 1:** With reference to your suggestion, we added the flowchart in section 3.2.

![Flowchart of NPP-VIIRS NTL data processing](image-url)
**Point 2:** Figure 3, 4, 6 still have inconsistent decimal numbers in the legend. Original night-light imagery is preferred to show the original data of the paper.

**Response 2:** We kept two decimal numbers in Fig 4, 5, 6, 7, as follows:

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**Figure 4.** Slope distribution of average NTL changes in various districts of Yichun

**Figure 5.** Average variation slope of NTLs on sub-district scale in Yichun
Figure 6. Average NTL radiance value in various areas of Yichun (a) year 2013; (b) year 2018.
Figure 7. Shrinking and growing lights and land use of each district of Yichun
Point 3: Section 3.2.1 does not just address extreme values but other inconsistencies of the night-time imagery. It is good to use subsection for the list of changes to data inconsistencies and provide equations for the specific work you have done.

Response 3: According to your suggestions, we provided equation (1) in section 3.2.1 to make our method clearer.

\[ DN_{(n,i)} = \begin{cases} 
DN_{(n,i)} = DN_{(n,k)}, & DN_{(n,i)} > 153 \\
DN_{(n,i)} = DN_{(n,i)}, & 0 \leq DN_{(n,i)} \leq 153 \\
DN_{(n,i)} = 0, & DN_{(n,i)} < 0 
\end{cases} \]  

(1)