Dear Sir,

Thank you very much for accepting our manuscript referenced EGUSPHERE-2022-690. Please find below our response to the changes you and the reviewer have asked for.

- Zenodo : Indeed the description of the content were not yet added. We now provide a description of the content of the archive with the following text which should clarify that all the data is there to guarantee reproducibility of the results presented :
  "The archived file includes the following items in support of the publication in GMD :
  - *The code of the Routing pre-processor (RoutingPreProc) written in Python and FORTRAN.*
  - *The NetCDF files containing the descriptions of the 4 grids on which the working of RoutingPreProc is exemplified.*
  - *The two high resolution hydrological digital elevation models used in the validation : MERIT and HydroSHEDS. Both are NetCDF files."*
- Figure 2 : We have a technical problem with this figure. The latest version of the code was lost after a disc of Anthony Schrapffer crashed. He could recover an older version of the code. It would take another week or so in order to reconstruct the figure in its current state and then modify the scale. As the proposed deadline is quite short, we though better to leave the figure as it is.
- Figure 3 : As proposed by the reviewer we used "grouped whisker boxplots" to illustrate the statistical distribution of the river segment properties. We must acknowledge that it demonstrates much better the point made in the text with this illustration.
- The technical issues were corrected as suggested.

Best regards

Jan Polcher