## Cover Letter

Dear Editors,

We are pleased to submit our manuscript entitled "Exploring River Cooling Effects in a Mountainous City: A Study Across Normal and Extreme Summer Weather conditions" for your consideration.

In this study, we conducted a comparative analysis of the river cooling effects on the surrounding urban environment between the normal summer day and the extremely hot day, taking the mountainous city of Chongqing as an example. Our findings indicate that the river cooling effects were more pronounced, both in magnitudes and spatial variations, on the extremely hot day compared to the normal summer day. Additionally, we observed that topographical characteristics had strong impacts on river cooling. For the key influencing factors, average elevation and slope exhibited ascent and descent patterns in their influences on river cooling, while the impacts of patch density and river width were relatively fluctuating. These insights could serve as a valuable resource for urban planners and managers in devising strategies to enhance the thermal environment of riverside areas.

We confirm that this manuscript has not been submitted elsewhere, and all authors have no conflicts of interest to declare. We collectively agree with the contents of this manuscript and consent to its submission. We eagerly anticipate any suggestions and comments from you and the reviewers regarding our manuscript.

Thank you for considering our work.

Sincerely,

Rongfei Zhang