

**ESSD-2025-649**

**TPLake-MED: A Monthly Extent Dataset for Lakes on the Tibetan Plateau**

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In the following document, reviewer comments are presented in **blue**, and author responses are provided in **black**.

Dear Editor,

We sincerely thank you and the referees for the constructive comments on our manuscript. We have carefully revised the manuscript according to the second-round comments. The main revisions made in this round are summarized as follows:

1. We carefully checked all annotations in the marked PDF file provided by Referee #1 and incorporated the suggested textual, grammatical, typographical, and formatting corrections where appropriate.
2. We revised the potentially ambiguous phrase “scale-dependent shoreline erosion” to “scale-dependent shoreline displacement and boundary generalization” to avoid implying a physical geomorphological erosion process.
3. We re-checked the Zenodo data (<https://doi.org/10.5281/zenodo.19205532>) record and confirmed that the dataset is publicly accessible and downloadable through the DOI provided in the manuscript.
4. In addition to the referee-requested revisions, we updated both the author affiliations and the Financial support section according to the acknowledgement and affiliation requirements of the Open Fund of the State Key Laboratory of Remote Sensing and Digital Earth, Beijing Engineering Research Center for Global Land Remote Sensing Products (Grant No. OF202506). Specifically, the author affiliations were revised to include “State Key Laboratory of Remote Sensing and Digital Earth, Faculty of Geographical Science, Beijing Normal University, Beijing 100875, China” and “Beijing Engineering Research Center for Global Land Remote Sensing Products, Faculty of Geographical Science, Beijing Normal University, Beijing 100875, China”, and the Financial support section was updated to acknowledge support from the Open

Fund (Grant No. OF202506). This is an administrative update and does not affect the methodology, results, interpretation, or conclusions of the manuscript.

5. During the final consistency check, we identified a transcription inconsistency in the class-specific accuracy values reported in Table 3, Fig. 3c - d, and the corresponding textual description. The original classification accuracy output was re-checked, and the reported precision, recall, and F1-score values were harmonized accordingly. No new experiment was conducted, and the correction only concerns the presentation of the classification accuracy results. This update improves the internal consistency among the table, figure, and text, and does not affect the main conclusion that the random forest classifier provides stable overall performance for lake-water classification.

6. We also carefully checked the manuscript for minor typographical, grammatical, punctuation, capitalization, terminology, reference, and formatting issues. Minor editorial corrections were made throughout the manuscript to improve consistency and readability. These additional changes are purely editorial and do not affect the scientific content or conclusions of the study.

Sincerely,

Siyu Zhao et al.

### **Response to Referee #1**

We sincerely thank the referee for the evaluation and for carefully checking the revised manuscript. We have carefully gone through all annotations and revised the manuscript accordingly. Most of these comments concern minor textual, grammatical, and formatting issues, including wording, singular/plural forms, capitalization, article usage, and sentence clarity. These corrections have been incorporated into the revised manuscript and are visible in the track-changes file.

#### **Comment 1:**

[Minor textual, grammatical, and formatting corrections in the annotated PDF.](#)

#### **Response:**

We thank the referee for these helpful corrections. We have checked all annotations in

the PDF file and accepted the suggested edits where appropriate. These revisions mainly include corrections to grammar, wording, singular/plural forms, capitalization, article usage, punctuation, and minor formatting issues. We also improved several sentences to make the manuscript clearer and more concise.

**Comment 2:**

The referee noted that the term “shoreline erosion” may be misleading because “erosion” usually refers to a physical geomorphological process.

**Response:**

We agree with the referee. In the original manuscript, the phrase “scale-dependent shoreline erosion” was intended to describe artificial boundary displacement and shoreline generalization caused by the use of coarse-resolution information, rather than physical erosion of the lake shoreline. We replaced “scale-dependent shoreline erosion” with “scale-dependent shoreline inconsistency” in the Introduction.

**Response to Referee #2**

We sincerely thank the referee for pointing out the concern regarding data accessibility.

**Comment 1:**

The dataset is still not available. Practically, I was not able to check the data itself, only the written part of the manuscript. As this journal is directly for datasets, it may be worth forcing the authors to find a reliable method to publish their data. The “Download” button leads to a non-existing page.

**Response:**

We apologize for the inconvenience caused during the review process. After receiving this comment, we carefully checked the Zenodo record and confirmed that the current DOI link (<https://doi.org/10.5281/zenodo.19205532>) is publicly accessible and that the dataset can be downloaded normally. The issue may have been caused by an earlier incorrect or outdated data-access link shown in the previous version during the review process.