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## **Response letter**

**Preprint title (ESSD-2022-457):** A long-term dataset of simulated epilimnion and hypolimnion temperatures in 401 French lakes (1959-2020).

**Authors:** Najwa Sharaf, Jordi Prats, Nathalie Reynaud, Thierry Tormos, Rosalie Bruel, Tiphaine Peroux, Pierre-Alain Danis.

Editor's comments are in *italic* and authors comments are in **bold**.

*Dear authors,*

*thank you very much for all your efforts w.r.t. the revision of your manuscript. Both remaining reviewers only had some minor comments, that were carefully addressed in your last version.*

*Hence, I am happy to inform you that your manuscript is now accepted for publication in ESSD!*

*I would also like to concur with the opinion of the two reviewers and emphasize again that your dataset and the corresponding manuscript are of high value for the broader scientific community. Particularly due to the length of the time-series of more than six decades, it allows for assessing long-term changes in the studied lakes which, obviously, is of high scientific, but also societal, relevance.*

*If you have any further questions, please do not hesitate to contact me.*

*Best regards and, again, thank you very much,*

*Christof Lorenz*

*Additional private note (visible to authors and reviewers only):*

*Dear authors,*

*I have only one last comment... ESSD requires the DOI / reference of the corresponding dataset to be included in the abstract. Please have a look at the "Manuscript composition" under <https://www.earth-system-science-data.net/submission.html> and follow these guidelines. You can also check some other published manuscripts for example wordings.*

*If you need help or if you have any questions, please let me know!*

*Best regards,  
Christof Lorenz*

Dear Mr. Lorenz,

On behalf of my co-authors, I would like to thank you for your response, for handling our manuscript and getting it reviewed as well as for accepting it for publication.

According to your comment, we added the doi/reference relative to our dataset (LakeTSim) in the abstract.

Additionally we did minor corrections to the text in sections 3.3 and 3.4 as follows:

L238-240 (section 3.3), we replaced:

“In situ temperature profiles were extracted for 170 lakes over different depths.”

By:

“In situ temperature profiles were extracted from the RCS/RCO (Réseau de Contrôle de Surveillance/Réseau de Contrôle Opérationnel, French networks for WFD) monitoring network for 170 lakes over different depths.”

L 250-251 (section 3.4), we replaced:

“Specifically, “calibrated” model parameters were adopted when in situ temperature profiles along the water columns were available from the RCS/RCO (Réseau de Contrôle de Surveillance/Réseau de Contrôle Opérationnel, French networks for WFD) monitoring;”

By:

“Specifically, “calibrated” model parameters were adopted when in situ temperature profiles along the water columns were available from the RCS/RCO monitoring network”.

Again, thank you very much.

Best regards,  
Najwa SHARAF