

CLIMFILL v0.9: A Framework for Intelligently Gap-filling Earth Observations

Verena Bessenbacher, Sonia I. Seneviratne, Lukas Gudmundsson
Geophysical Model Development, doi:10.5194/gmd-2021-164

Dear Editorial support team,

We are very happy to learn that our manuscript has been accepted for publication at GMD. Please find enclosed the final revised version of the article entitled “CLIMFILL v0.9: A Framework for Intelligently Gap filling Earth Observations” (Paper GMD-2021-164). Please note:

- Figure 13 is created by the authors (case 1 in your discussion of such cases in your submission guidelines, <https://www.geoscientific-model-development.net/submission.html>), therefore no additional credit needs to be added in the figure caption.
- minor changes in the text (e.g. change "Figure 4 to Fig. 4") that do not change content have been made to comply with your submission guidelines.
- We realised in Figure 6 (a) for Exp D. we have in the last submitted version not used the newest data. Therefore the boxplot in Figure 6 (a) for Exp. D is located slightly differently now, and we have deleted the accompanying sentence in the text:

Overall, the JS-distance is lower for CLIMFILL than for interpolation globally (Fig. ?? (a)) for experiment ~~C and D. Adding the constant maps to the feature set leads to a negligible performance improvement. However, including D. Including~~ all variables shows overall the best results.

Please note that this does not change any results or content in any way, but corrects a mistake that we just have discovered.

If any questions arise, please do not hesitate to contact us. Please however note that the corresponding author (Verena Bessenbacher) will be on a scheduled sick leave following a minor surgery from 4th of May approx. 3 weeks. Therefore please also send any questions and communication also to lukas.gudmundsson@env.ethz.ch. Thank you very much for your understanding.

Yours Sincerely,

Verena Bessenbacher (on behalf of all co-authors)