

Saint-Martin d'Hères, September 22th 2025.

Dear Editor B. Risebrobakken,

We thank you for your constructive comments on the revised manuscript. We have improved clarity and consistency regarding the three points raised and corrected minor typos. The modifications are as follows:

- Lines 57 & 76: typo corrections.
- Lines 218-221: added three sentences to explain the choice of the ‘peak and trough’ method.
- Lines 424-425: added a short sentence about the limitations of core-tops records.
- Line 537. We clarified the sentence.
- Line 729. We added the link to the Zenodo repository, where all individual SST and tie-points data are available, along with the stack results (including the three results shown in Fig. 3).

Please find the revised manuscript attached with track changes (in red).

Best regards,

Stevenard Nathan

Corresponding author

Institut des Géosciences de l'Environnement (IGE)

54 Rue Molière, St-Martin d'Hères - France.

E-mail: nathan.stevenard@univ-grenoble-alpes.fr