

Second review of “Understanding the vertical temperature structure of recent record-shattering heatwaves” by B. Hotz, L. Papritz and M. Röthlisberger submitted to Weather and Climate Dynamics

General Comments to the reviewers:

We acknowledge both reviewers for taking the time and effort in reviewing our manuscript. Reviewer comments are listed below in black font, while our replies are provided in green.

Reviewer 1:

General comment:

I thank the authors for their careful consideration of all my comments! Especially, Section 3.1 and the discussion relating to the diurnal heat accumulation in the PBL are now clear to me. I'm looking forward to the publication of the manuscript.

We would like to thank the reviewer again for the useful feedback and suggestions for improving our manuscript.

Technical correction:

1. L194: Didn't MSE_s peak on 19 July rather than on 20 July?

Thank you for pointing this out. Yes, it should be the 19th of July. We have rectified it in the revised manuscript.