Dear Francisco José Cuesta-Valero,

Thank you for your encouraging comment. We agree that Figure 6 is not the best way to illustrate the impact of volcanic eruptions on permafrost, as details are lost in the coarse resolution of the entire time series. The reason we have not presented a specific figure on this topic is that the main focus of this study is on the general evolution of permafrost in response to long-term climatic changes. However, we also believe that the effects of short-term climatic events such as volcanic eruptions deserve more attention since this topic is surprisingly understudied in permafrost modeling. We are reluctant to shift the focus of this manuscript too far toward volcanic eruptions, but we are considering including a more detailed illustration showing the individual impacts of volcanic eruptions in the appendix. We believe that this particular topic would warrant a separate study specifically addressing the short-term impacts of volcanic eruptions.

Best regards,

Moritz Langer