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# Continental heat storage: contributions from the ground, inland waters, and permafrost thawing

**Francisco José Cuesta-Valero et al.**

*Correspondence to:* Francisco José Cuesta-Valero (francisco-jose.cuesta-valero@ufz.de)

## S1 Introduction

This file contains supplementary figures accompanying the manuscript “Continental heat storage: Contributions from ground, inland waters, and permafrost thawing”.

## S2 Supplementary figures

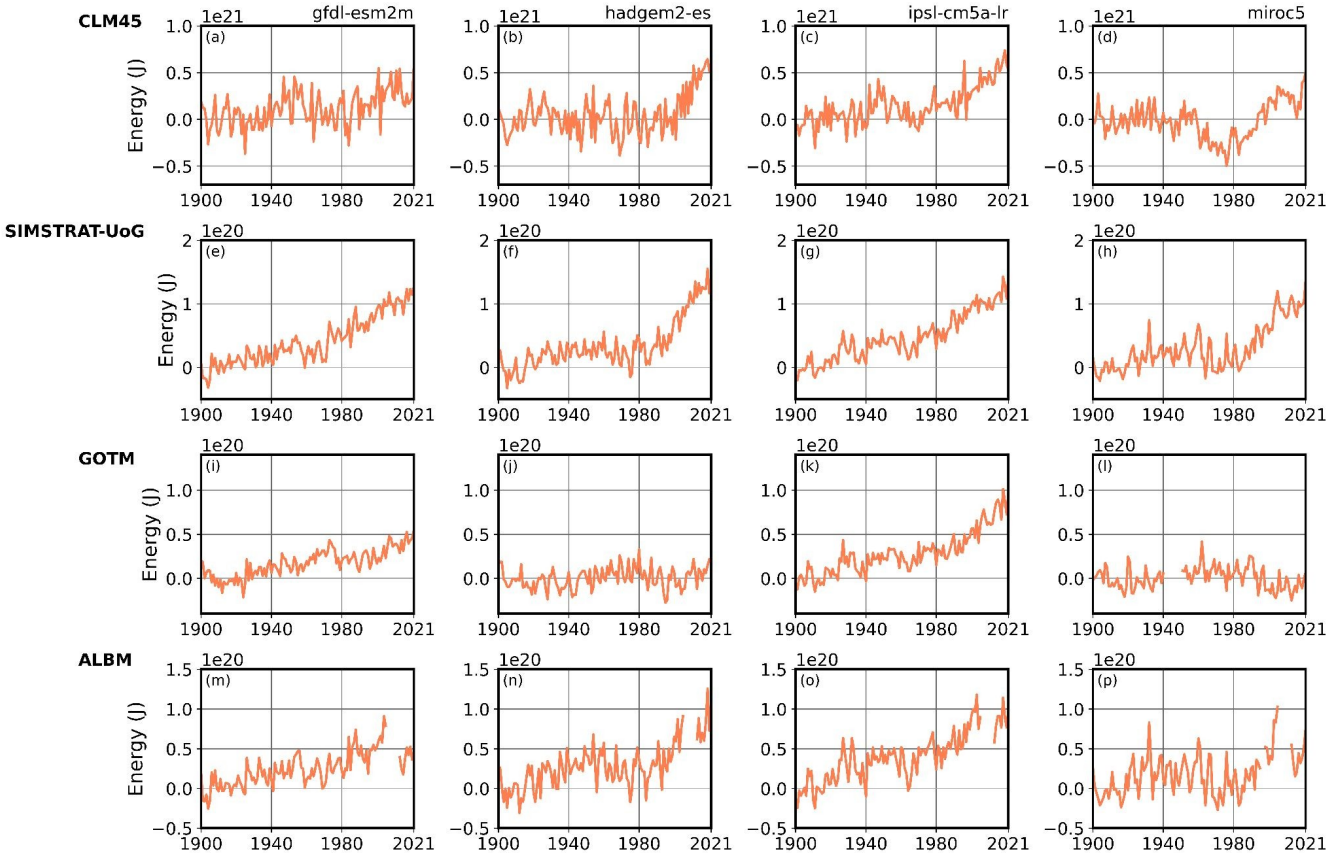


**Figure S1:** Annual heat uptake by natural lakes for the four global lake models (CLM45; a-d, SIMSTRAT-UoG; e-h, ALBM; i-l, GOTM (m-p) and ESM forcings (GFDL-ESM2M, HadGEM2-ES, IPSL-CM5A-LR, MIROC5; columns) calculated compared to the period 1900-1929. For all forcings, the years 2006- 2012 of ALBM are excluded due to model spin up. Additionally, the years 1996-1997 for the ALBM MIROC-5, and 1941-1950 for GOTM MIROC-5 are excluded. Note the different y-axis scales.

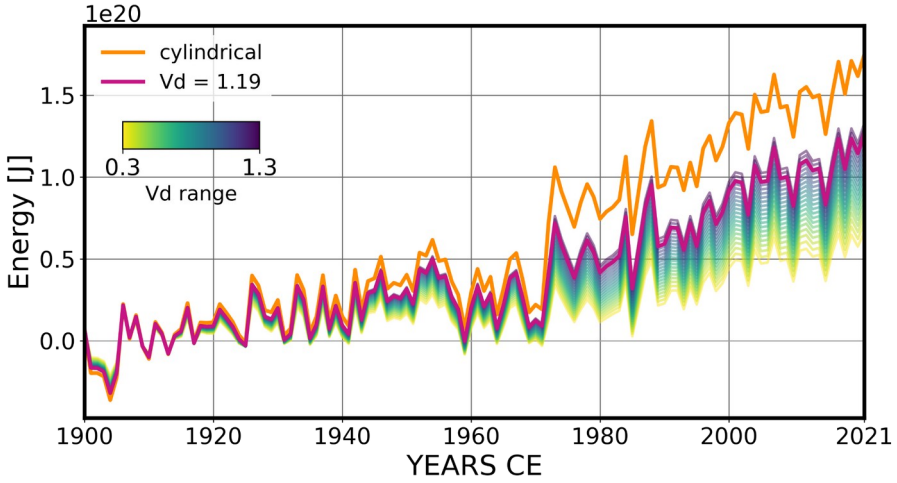


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**Figure S2:** Sensitivity of natural lake heat uptake estimates to the global mean lake morphometry parameter $V_d$, here shown for the SIMSTRAT-UoG GFDL-ESM2M simulation. The $V_d$ range of 0.3 to 1.3 is based on observations (Johansson et al., 2007). Cylindrical refers to the cylindrical bathymetry assumption employed in Vanderkelen et al (2020).

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**References**

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