Supplement of Clim. Past, 20, 841–864, 2024
https://doi.org/10.5194/cp-20-841-2024-supplement
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Supplement of

Reconstruction of warm-season temperatures in central Europe during the past 60 000 years from lacustrine branched glycerol dialkyl glycerol tetraethers (brGDGTs)

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Figure S1: Offsets between brGDGT-inferred temperatures and 1901-2016 temperature data after applying corrections based on IIIa". Symbol shape corresponds to sample type, symbol fill corresponds to the fractional abundance of the IIIa" isomer.

Figure S2: PCA of brGDGT data from Eifel samples and a global compilation (Martínez-Sosa et al., 2023).
Table S1: Summary of key indices and temperature estimates obtained from 17 separate extractions and measurements of a single sample to test reproducibility of the laboratory and analytical method.

<table>
<thead>
<tr>
<th></th>
<th>MBT'5Me</th>
<th>BIT</th>
<th>fIIIa'</th>
<th>ΣIIIa/ΣIIa</th>
<th>brGDGTs (ng/g)</th>
<th>isoGDGTs (ng/g)</th>
<th>Cren (ng/g)</th>
<th>BayMBT (°C)</th>
<th>BayMBT_adj (°C)</th>
<th>Raberg21 (°C)</th>
<th>Raberg21_adj (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean (n=17)</td>
<td>0.193</td>
<td>0.591</td>
<td>0.018</td>
<td>2.225</td>
<td>1815.2</td>
<td>2749.1</td>
<td>1248.0</td>
<td>4.37</td>
<td>5.20</td>
<td>6.28</td>
<td>6.53</td>
</tr>
<tr>
<td>Standard Deviation (n=17)</td>
<td>0.006</td>
<td>0.018</td>
<td>0.002</td>
<td>0.193</td>
<td>298.7</td>
<td>585.4</td>
<td>256.0</td>
<td>0.18</td>
<td>0.24</td>
<td>0.10</td>
<td>0.14</td>
</tr>
</tbody>
</table>

1 fIIIa' calculated as a fraction of all measured brGDGTs
2 Includes crenarchaeol and crenarchaeol isomer