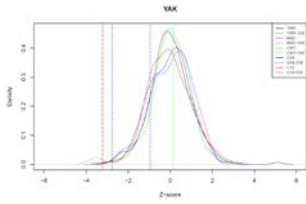


1 **Supplementary material:**

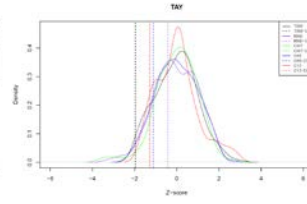
2 **Fig. S1.** Probability density function computed for each of the tree-ring parameter for northeast-
3 tern Yakutia (YAK) (left panel), eastern Taimyr (TAY) (middle panel) and Russian Altai (ALT)
4 (right panel), respectively. Tree-ring parameters (TRWi - red, MXD – violet, CWT – green,
5 $\delta^{18}\text{O}$ - blue and $\delta^{13}\text{C}$ - red) in bold lines represent the probability density function. Dotted lines
6 represent the anomalies (z-score, standard deviation) induced by the volcanic years: CE 536,
7 537, 538, 541, 542, 1258, 1259, 1453, 1458, 1601, 1602, 1642, 1643, 1816, 1817, 1992, 1993.
8

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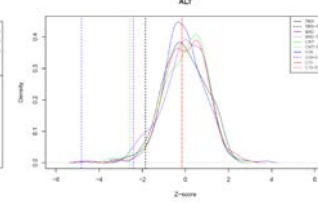
9 536 YAK



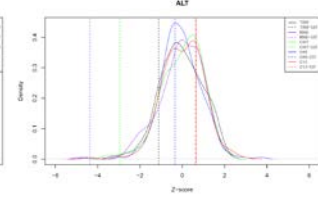
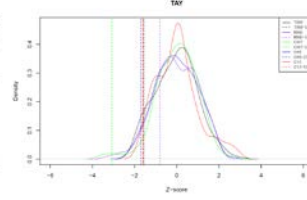
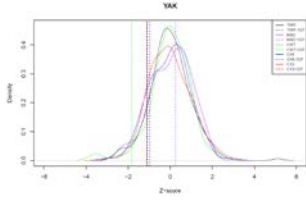
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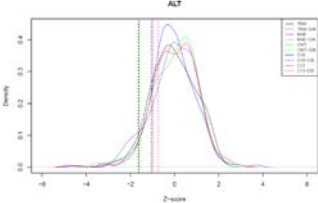
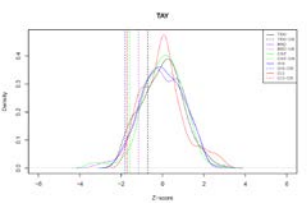
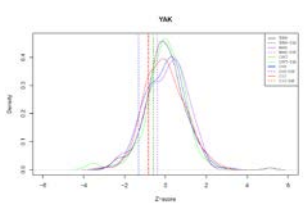
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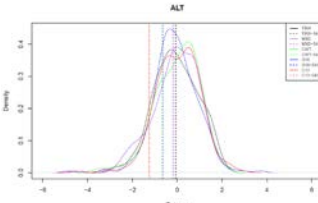
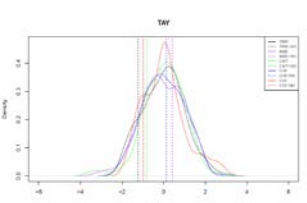
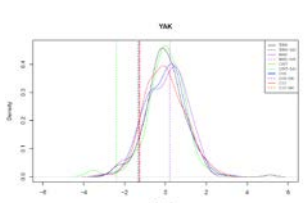
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11 537



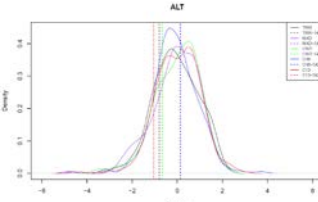
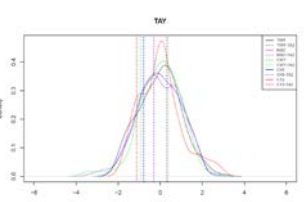
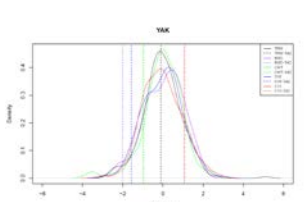
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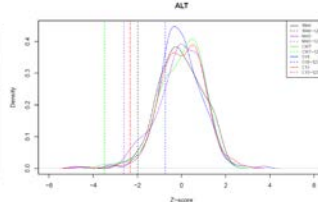
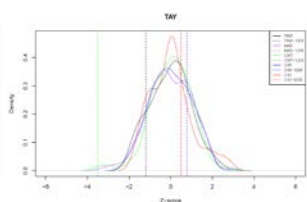
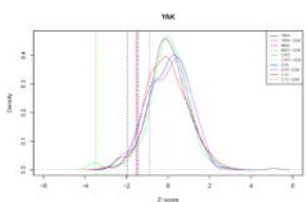
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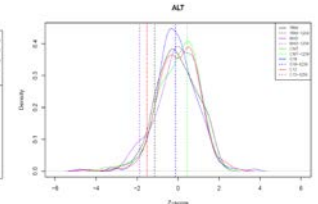
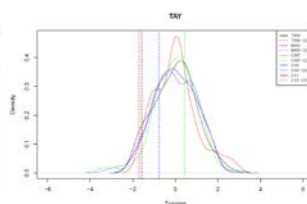
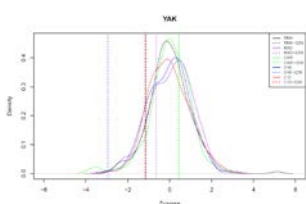
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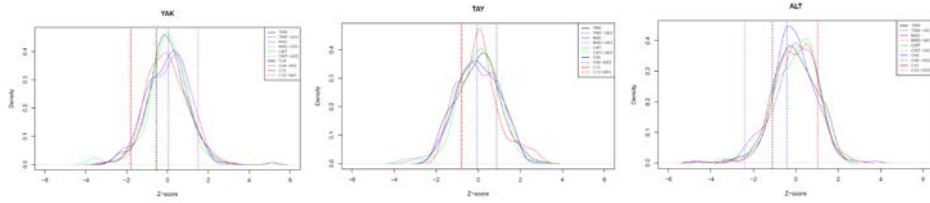
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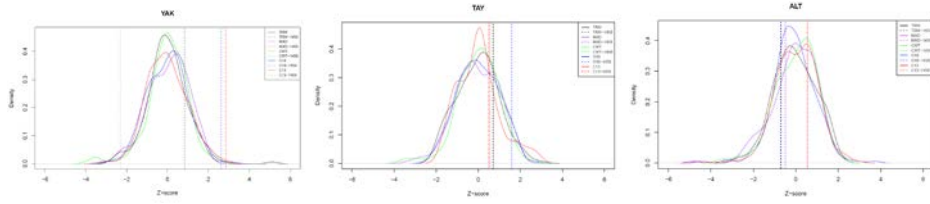
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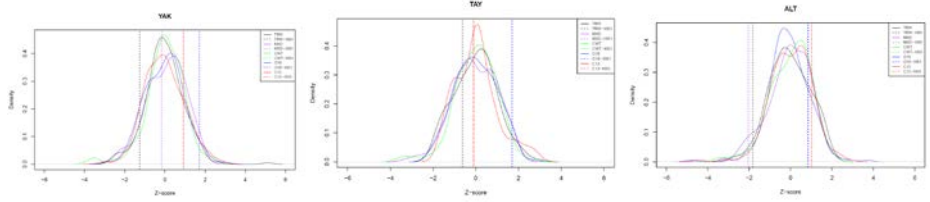
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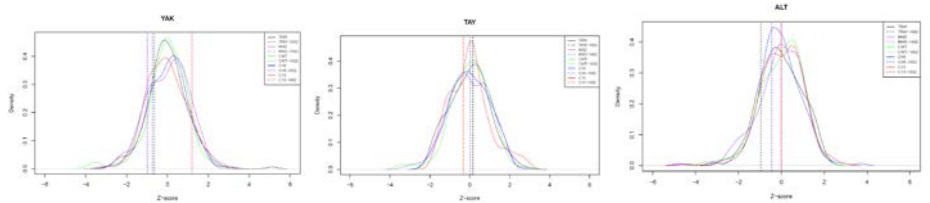
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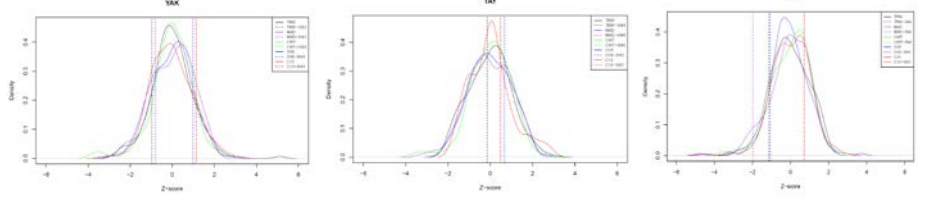
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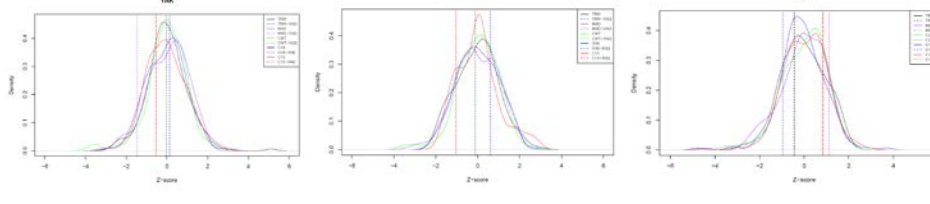
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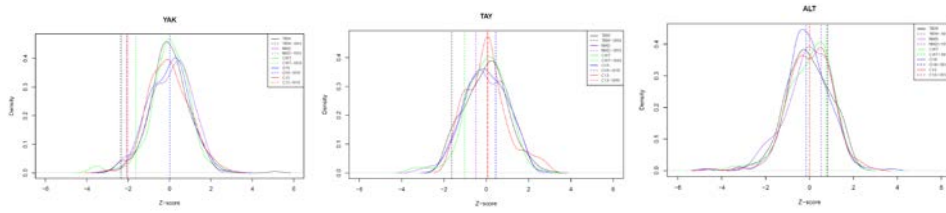
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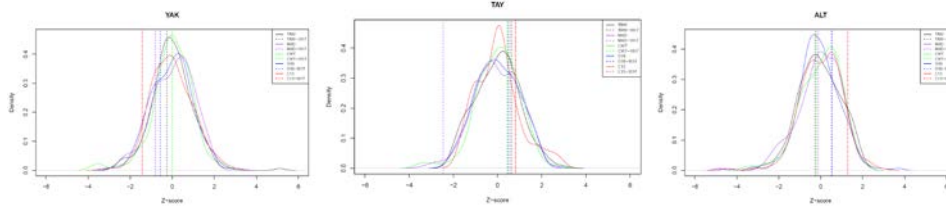
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SIBERIAN TREES AND VOLCANIC ERUPTIONS

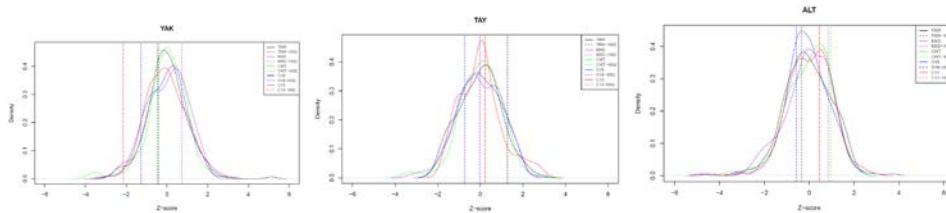
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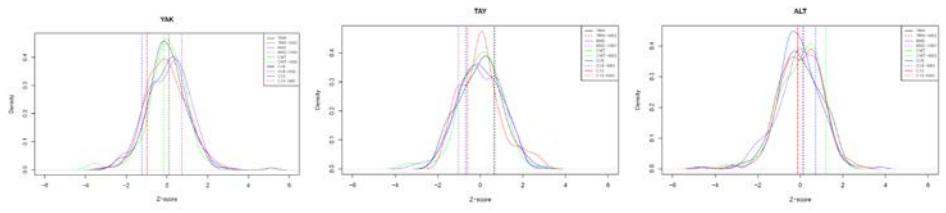
39
40 1817



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42 1992



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44 1993



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