

Supplement of *Clim. Past Discuss.*, 10, 4535–4552, 2014
<http://www.clim-past-discuss.net/10/4535/2014/>
doi:10.5194/cpd-10-4535-2014-supplement
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Supplement of

Technical Note: Are large error bars desirable? A note on quantitative model-proxy comparison

J. Liakka et al.

Correspondence to: J. Liakka (johan.liakka@senckenberg.de)

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Description

The supplementary material consists of two figures (S1-S2; see below).

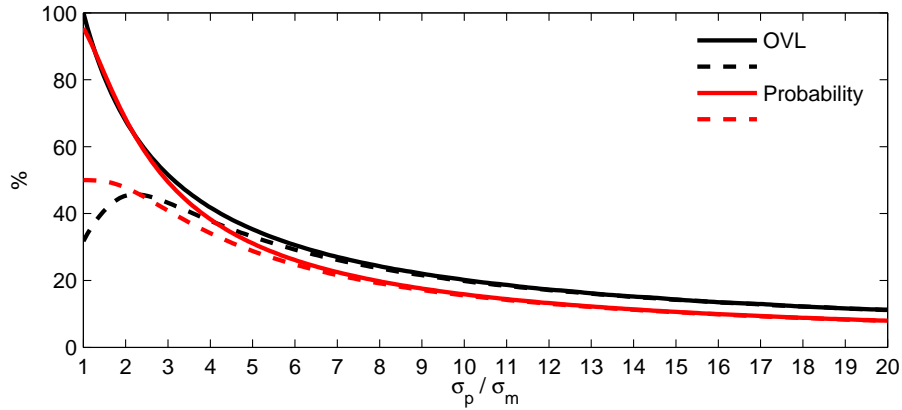


Figure S1 The overlapping coefficient OVL between two Gaussian distributions (black curves), and the probability that the true value (assumed to follow the proxy distribution) is within $\bar{x}_m \pm 2\sigma_m$ (red curves), where \bar{x}_m is the model mean and σ_m the model standard deviation. All curves are plotted with respect to the σ_p/σ_m , where σ_p is the standard deviation (uncertainty) of the proxy. The solid lines show cases for which the mean value of the model and the proxy is the same ($\bar{x}_m = \bar{x}_p$), and the dashed lines depict cases for which $\bar{x}_p = \bar{x}_m + 2\sigma_m$.

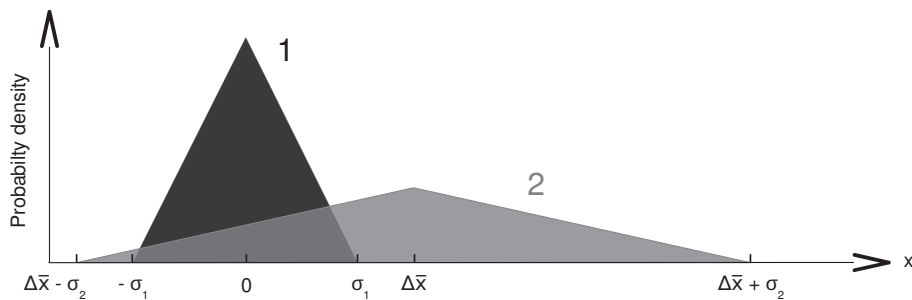


Figure S2 The simplified triangular geometry used to derive the analytical solution of OVL as a function of q (Eq. 3 in the main paper).