Supplementary Material : Scaling laws for perturbations in the ocean–atmosphere system following large CO₂ emissions

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Figure 1. Anthropogenic CO$_2$ emission scenarios. For each scenario the perturbation is characterized by duration, $D$, and total size of emission, $E$. As in Zeebe et al. (2008), these scenarios are based on historic emission data with total emissions of 315 PgC until year 2004 with the projected future emissions being described by a single (or the sum of two) Gaussian function(s).
Figure 2. Comparisons between peak system response and predictions based on modern scaling laws for anthropogenic emission scenarios. (a,c) Residuals. (b,d) Error.
**Figure 3.** Comparisons between peak system response and predictions based on modern scaling laws for anthropogenic emission scenarios. (a,c) Residuals. (b,d) Error.