**Figure 1.** The relationship between the turnover rate for the Rubisco carboxylase reaction  $(k_{\text{cat}}^{\text{c}})$  with (A) the Michaelis–Menten affinity constant for CO<sub>2</sub>  $(K_c)$  and (B) the CO<sub>2</sub>/O<sub>2</sub> specificity factor  $(S_{\text{c/o}})$ . Filled symbols correspond to C<sub>3</sub> species at 15 °C (♠), 25 °C (♠) and 35 °C (♥); open symbols correspond to C<sub>4</sub> species at 15 °C (△), 25 °C (O) and 35 °C (∇). Each symbol represents the average value of a single species per temperature interaction.

