

Figure 2. Simulated CO₂ assimilation potential of Rubisco (A_{Rubisco}) for the C₃ and C₄ species at 15 °C, 25 °C and 35 °C and at values for the chloroplastic CO₂ concentration (C_c) of (A) 250 μbar and (B) 150 μbar. Equations used to calculate A_{Rubisco} were those described in the biochemical model of C₃ photosynthesis (Farquhar et al. 1980), as explained in Materials and Methods. The bars represent the minimum value of A_c - and A_j -limited A_{Rubisco} . Asterisks (*) above the bars indicate A_c -limited A_{Rubisco} (absence of * indicate A_j -limited A_{Rubisco}). The rate of electron transport was considered 60, 150 and 212 μmol m⁻² s⁻¹ at 15 °C, 25 °C and 35 °C, respectively. The concentration of active Rubisco sites was assumed invariable at 25 μmol m⁻² for all the species and environmental conditions. The values used for the Rubisco kinetic parameters (k_{cat}^c , I^* and K_c^{air}) are those shown in Tables 1 and S1.

