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Supplement of

Physiological responses to ultra-high CO_2 levels in an evergreen tree species

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Supplementary Figures

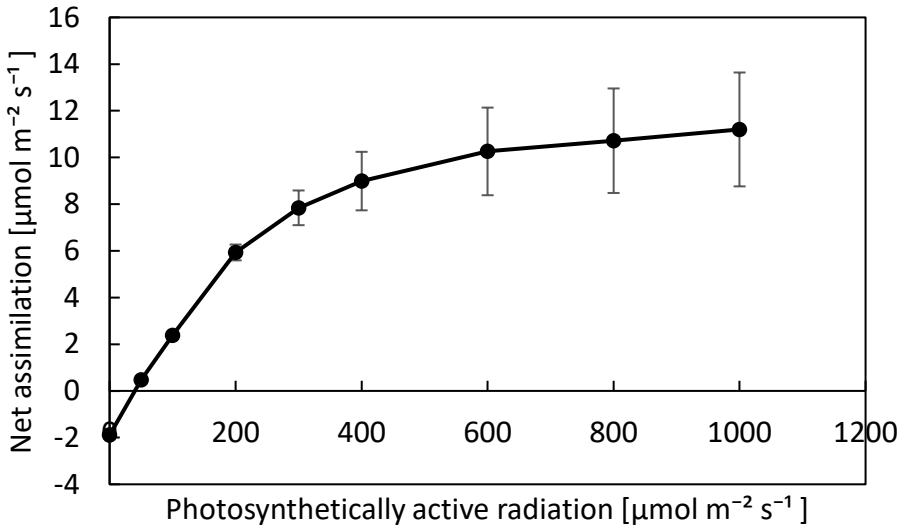


Fig. S1. Light response curve of *Psidium cattleyanum*. Plants were exposed to increasing light levels and their net assimilation rate was measured. Error bars represent standard errors ($n = 6$).

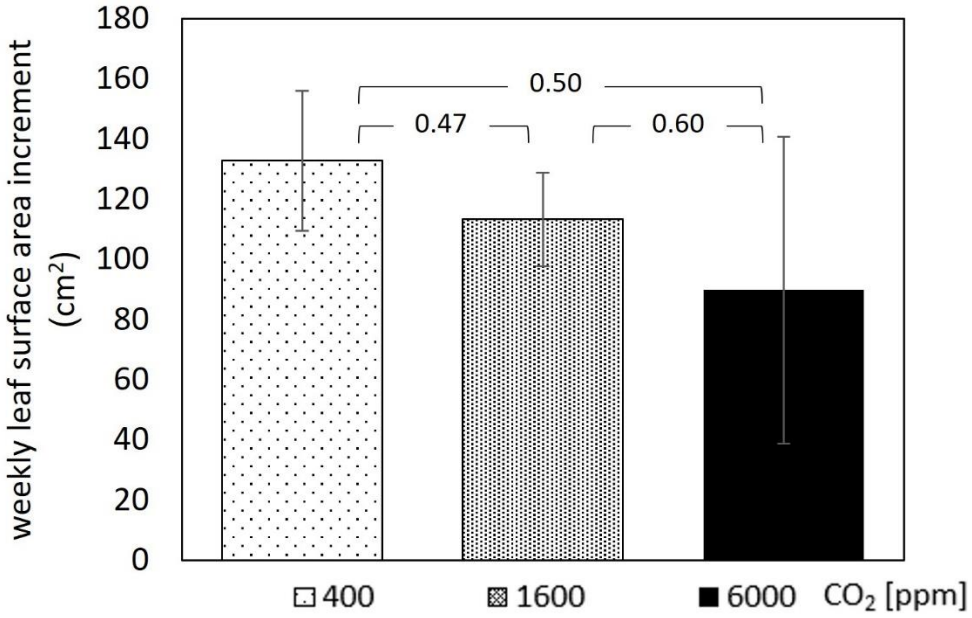
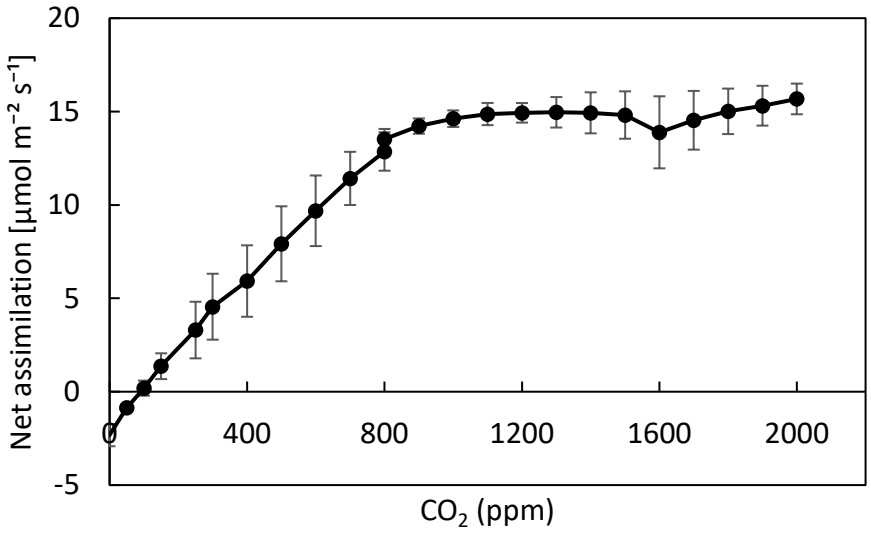


Fig. S2. Leaf surface area increment is similar under different CO_2 concentrations. Bar heights are means of 10 Guava saplings subjected to different CO_2 concentrations. Error bars represent standard errors. P-values are from paired t-tests.



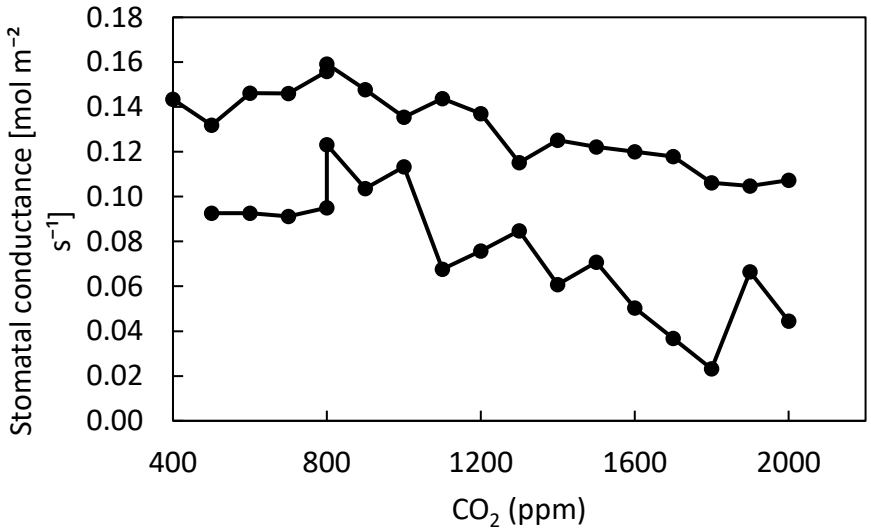


Fig. S3. Leaf assimilation increases and stomatal conductance decreases under instantaneous exposure to elevated CO_2 concentrations. Plants were grown under ambient CO_2 level and were exposed to increasing CO_2 concentrations using the IRGA chamber. Data points are means ± SE of three plants (top) or measurements in two discrete plants (bottom).

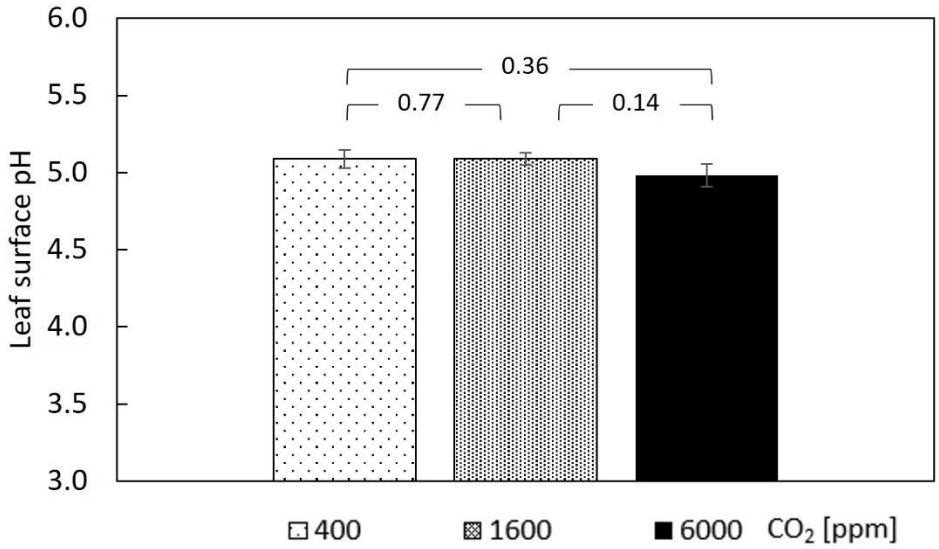


Fig. S4 Leaf surface pH is similar under different CO_2 concentrations. Data points are means of 10 guava saplings subjected to different CO_2 concentrations. Error bars represent standard errors. P-values are from paired t-tests.