

Exploring the diurnal cycle of $\Delta^{17}\text{O}$ in CO_2 at the ecosystem level



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$\Delta^{17}\text{O}$ at the ecosystem level



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Leaf-scale quantification of the effect of photosynthetic gas exchange on $\Delta^{17}\text{O}$ of atmospheric CO_2

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$$\Delta^{17}\text{O} \approx \delta^{17}\text{O} - 0.5 \times \delta^{18}\text{O}$$

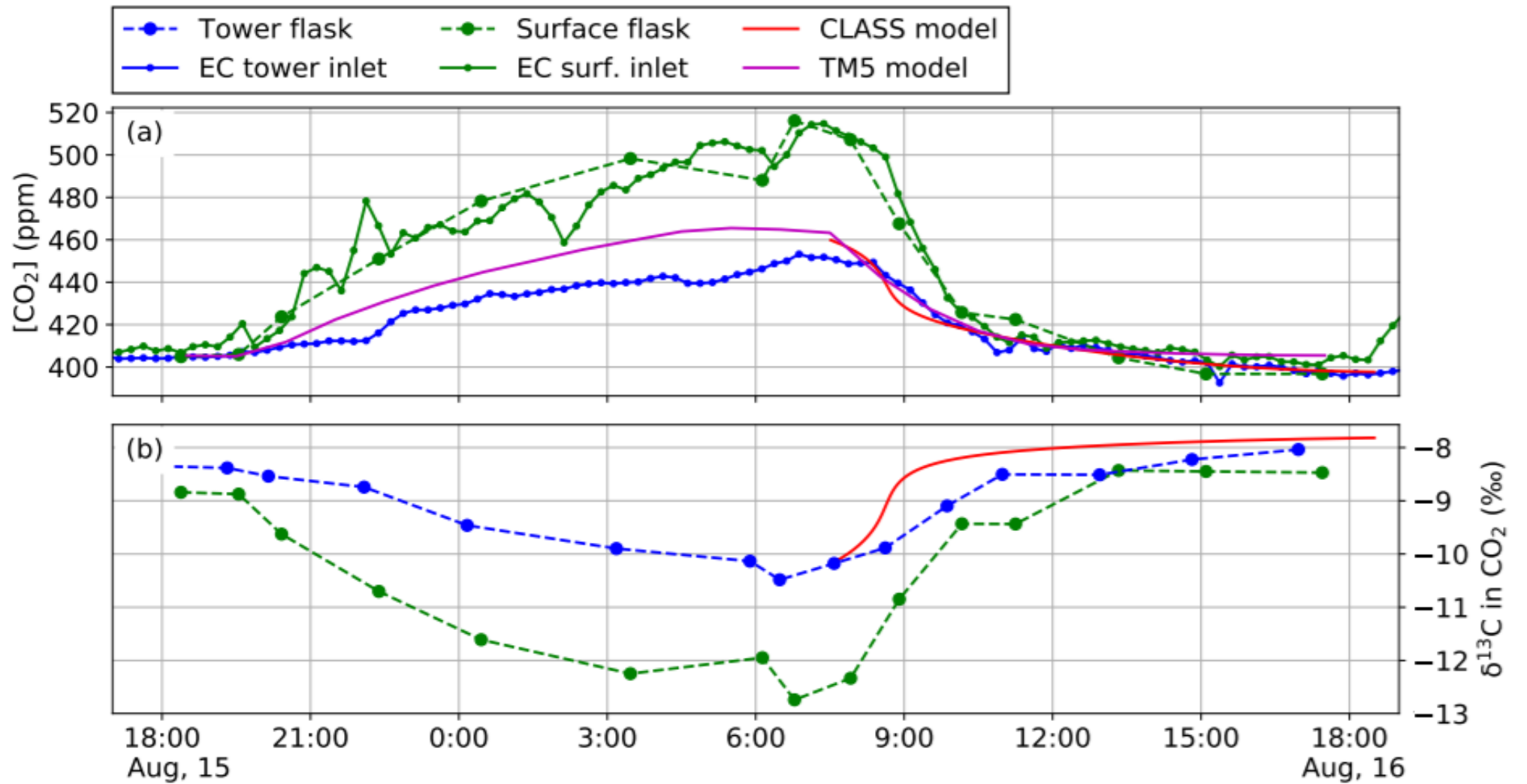
JGR Atmospheres



Global 3-D Simulations of the Triple Oxygen Isotope Signature $\Delta^{17}\text{O}$ in Atmospheric CO_2

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Results for CO₂ and $\delta^{13}\text{C}$



Results for $\delta^{18}\text{O}$ and $\Delta^{17}\text{O}$

