

Correction of Equation 7

16.11.2025

During the proofreading of the manuscript, we noticed an error within equation 7.

Equation 7:

$$\Delta EI_x = \sqrt{\left(\frac{\partial EI_x}{\partial N_x} \Delta_{\text{err}} N_x\right)^2 + \left(\frac{\partial EI_x}{\partial lp} \Delta lp\right)^2 + \left(\frac{\partial EI_x}{\partial ll} \Delta ll\right)^2 + \left(\frac{\partial \Delta EI_x}{\partial \text{CO}_2}\right)^2 (\Delta_{\text{err}} \text{CO}_2^2 + \Delta_{\text{err}} BG_{\text{CO}_2}^2)}$$

In the term $\frac{\partial \Delta EI_x}{\partial \text{CO}_2}$, the Δ now indicated in red is a mistake and should be removed.

Further, the mixing ratio of CO_2 is defined as r_{CO_2} and is displayed incorrectly.

Finally, for consistency with the terminology used throughout the manuscript, we have applied the subscript "err". We chose this notation because the symbol Δ is, at several points, used to denote the enhancement above a background concentration, and using "err" as a subscript avoids potential ambiguity.

The correct version then results in:

$$\Delta EI_x = \sqrt{\left(\frac{\partial EI_x}{\partial N_x} \Delta_{\text{err}} N_x\right)^2 + \left(\frac{\partial EI_x}{\partial lp} \Delta_{\text{err}} lp\right)^2 + \left(\frac{\partial EI_x}{\partial ll} \Delta_{\text{err}} ll\right)^2 + \left(\frac{\partial EI_x}{\partial r_{\text{CO}_2}}\right)^2 (\Delta_{\text{err}} r_{\text{CO}_2}^2 + \Delta_{\text{err}} BG_{\text{CO}_2}^2)}$$

We kindly ask the editor to approve these changes.