Is elevated CO₂ a driver of global dryland greening?

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Supplementary Appendix S1. List of references used to collect database for this study


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24. Kettunen, R., Saarnio, S., Martikainen, P. & Silvola, J. Elevated CO\textsubscript{2} concentration and nitrogen fertilisation effects on N\textsubscript{2}O and CH\textsubscript{4} fluxes and biomass production of Phleum pratense on farmed peat soil. Soil Biology & Biochemistry 37, 739-750 (2005).


**Figure S1.** Comparisons of mean effect size and soil moisture response under elevated CO$_2$ for overall data (including both growing season data and non-growing season data). A. Site locations of the CO$_2$ enrichment experiments together with globally distributed climate zones based on a standard aridity index formulation (precipitation/potential evapotranspiration); B. Mean effect size of soil water content under elevated CO$_2$ for the entire data set, under dryland and non-dryland regimes. The effect size was calculated as the natural log of the magnitude of an experimental treatment mean (the soil water under elevated CO$_2$) relative to the control treatment mean (the soil water under ambient CO$_2$); C. Enhancement of soil water content under elevated CO$_2$ for dryland versus non-dryland regimes. The number of cases is shown in brackets. Error bars are bootstrapped confidence intervals (CI). All the statistics are significant at $P < 0.05$. The map was generated using ArcGIS for Desktop 10.3.1 (http://www.arcgis.com).
The experiment was conducted at two different soil textures – rocks vs. sand.