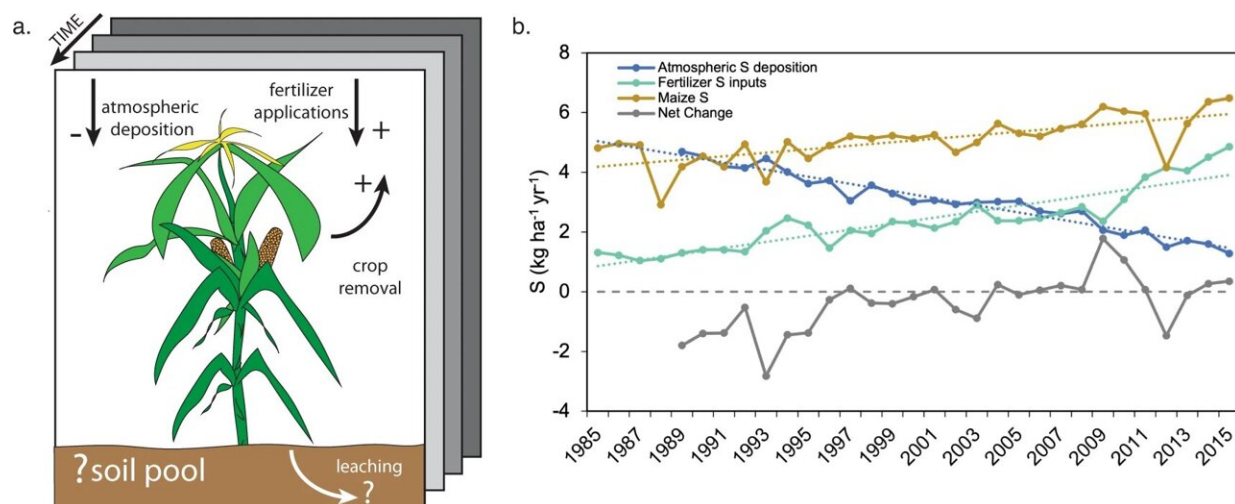


Air quality improvements lead to more sulfur fertilizer use, shows study

January 9 2023



a Conceptual model of S flows. **b** Trends in S inputs and estimated S output in maize. Areal loads are calculated as the total amount of S normalized by the total land area of the study region (atmospheric S deposition), the total cropland in the study region (all S fertilizer products), and area of maize planted (maize S). Best fit lines are slope = $-0.12 \text{ kg S ha}^{-1} \text{ yr}^{-1}$, $R^2 = 0.96$ (atmospheric S deposition), $0.10 \text{ kg S ha}^{-1} \text{ yr}^{-1}$, $R^2 = 0.82$ (fertilizer S inputs), and slope = $0.06 \text{ kg S ha}^{-1} \text{ yr}^{-1}$, $R^2 = 0.46$ (maize S). The linear models are statistically significant (p

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