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Implications of uncertain bioreactive parameters on a complex reaction network of atrazine biodegradation in soil

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Highlights

- We propagate biogeochemical uncertainty in the atrazine degradation reaction network
- We rank 74 bioreactive parameters through a two-step global sensitivity analysis
- Concentrations of chlorinated compounds and biomass exhibit multimodal pdfs
- Coupling between biogeochemical processes greatly influences output statistics
- Specific biomass affinity explains observed trends in biomass growth

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