

Global-scale assessment of agrochemicals contamination — the case study of glyphosate

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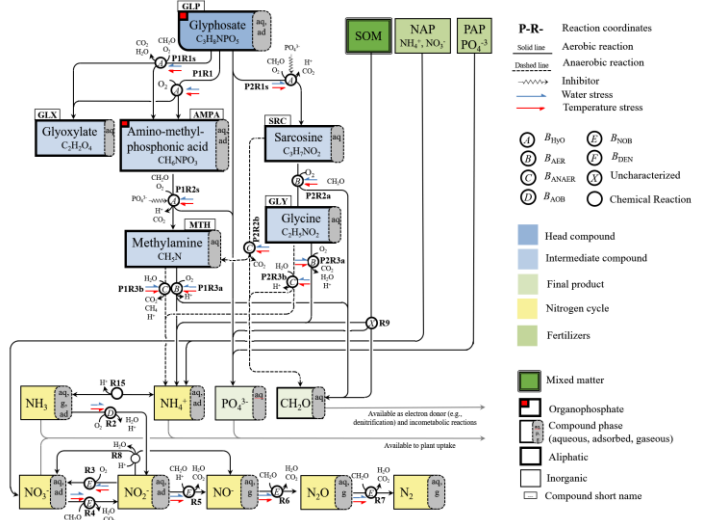
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EGU2021, Session HS2.3.3 - 'Micropollutants and pathogens in the soil-groundwater-river continuum: modeling and monitoring'

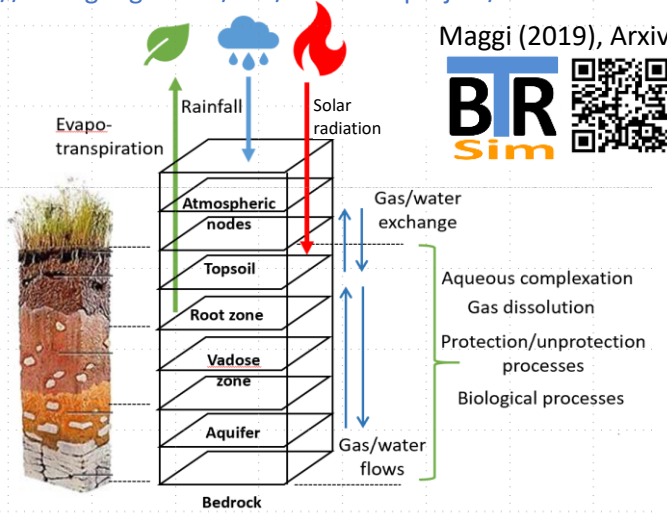
(1) Development of the GLP reaction network

la Cecilia et al., (2018), *Wat Res*; la Cecilia and Maggi (2018), *Env. Pol.*
Tang et al., (2019), *Sci. Tot. Env.*

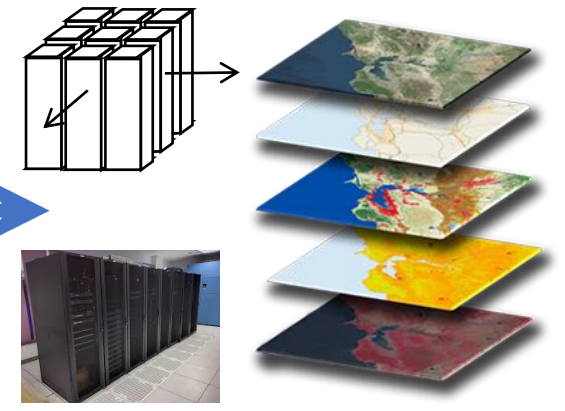


(2) Embedding of the GLP network in the multi-phase multi-species general-purpose solver (BRTSim)

<https://sites.google.com/site/thebrtsimproject/home>



(3) Model generation and deployment over 3-D grid

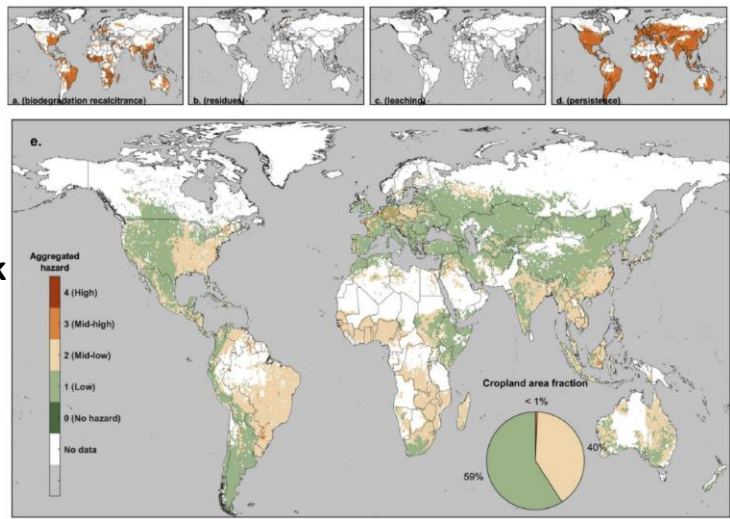


Artemis HPC, Sydney Informatics Hub

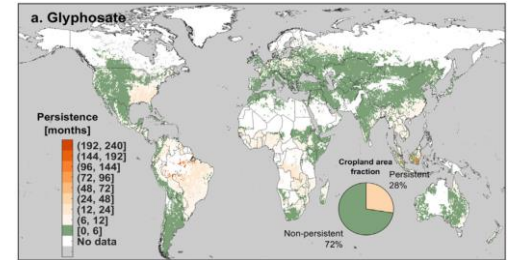
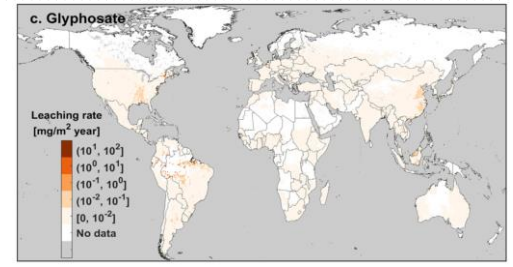
Maggi et al., (2020), *Sci. Tot. Env.*

<1% at high and mid high risk

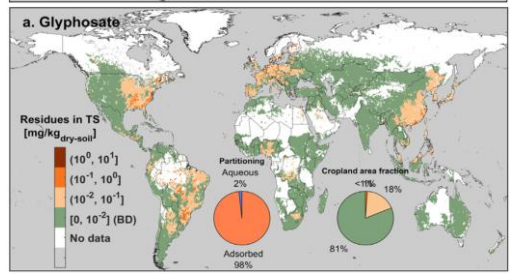
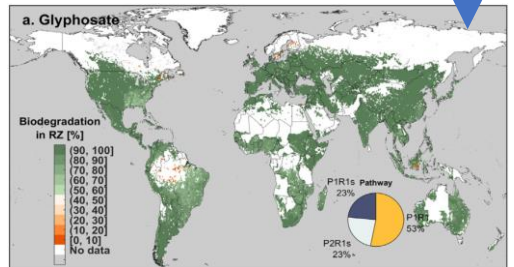
~40% at mid risk



(6) Aggregated hazard



(5) Leaching and persistence



(4) Biodegradation and residue