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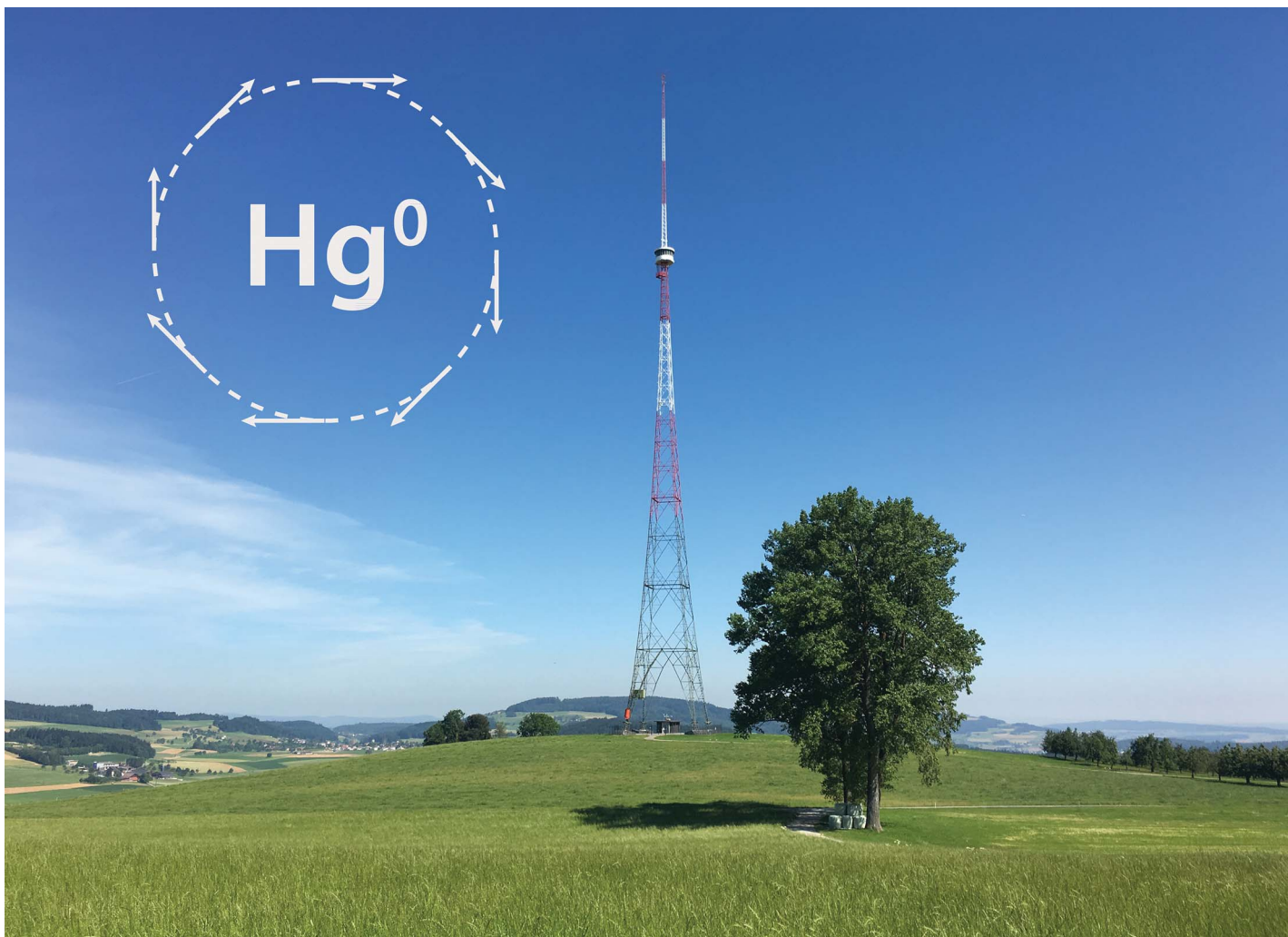
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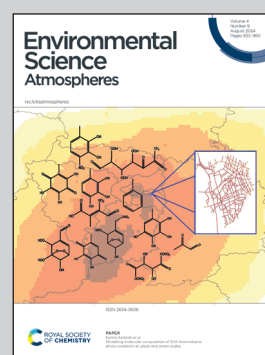


Showcasing research from the Grassland Sciences group lead by Prof. Nina Buchmann, Institute of Agricultural Sciences, ETH Zurich, Zurich, Switzerland.

Spatial and seasonal dynamics of gaseous elemental mercury concentrations over Switzerland observed by a passive air sampler network

A Swiss Atmospheric Mercury Network using passive air samplers (MerPAS®) was established at 16 stations of the National Air Pollution Monitoring Network and six Swiss FluxNet stations. The rural site Beromünster was part of the network (cover picture taken by C. Hüglin, Empa). Measurements were performed below the 217 m high tower. Gaseous elemental Hg (Hg^0) concentrations were significantly higher at urban sites compared to rural sites (+10%). Higher urban Hg^0 was likely driven by local Hg sources while lower rural Hg^0 concentrations occurred due to elevated plant Hg^0 uptake in spring and summer.

As featured in:



See Stefan Osterwalder *et al.*, *Environ. Sci.: Atmos.*, 2024, 4, 848.