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Using Python as a coupling platform for integrated catchment models

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Abstract. Interdisciplinary sharing of knowledge is a key for understanding matter fluxes in landscapes. However, models of transport and reactive fluxes from different disciplines need to work seamlessly together, to capture the tight feedback loops between different compartments and process domains of a landscape. Techniques to facilitate the integration of model codes for integrated catchment modelling exist, but are still scarcely used. In this paper, we are testing a scripting language, Python as a model coupling platform, and demonstrates effects of feedback loops on a virtual agriculturally used hillslope.

Full Article in PDF (PDF, 1450 KB)

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