Interactive comment on “Integrating field and numerical modeling methods for applied urban karst hydrogeology” by J. Epting et al.

Anonymous Referee #2

Received and published: 16 May 2009

The paper demonstrates how hydrogeologic modelling and karst evolution modelling can be favourably combined to investigate groundwater flow, gypsum dissolution, and corresponding feedback mechanisms. This is shown for an urban environment where subsidence is observed near a river dam and a highway. The combined modelling approach is novel to the best of my knowledge and supports the analysis of the actual situation as well as the assessment of potential countermeasures. The topic is relevant, suitable for HESSD and certainly of high interest for the international karst research community. The submitted paper is properly organised and generally well written. All figures and tables are informative and an extensive list of references is provided to cover site-specific features, general karst hydro(geo)logy and methodological aspects of karst modelling. Summing up, I am recommending minor revision of the submitted paper according to the specific suggestions / questions given below.
Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 6, 3577, 2009.