

Interactive comment on “Hydrogeological conceptual model of andesitic watersheds revealed by high-resolution geophysics” by Benoit Vittecoq et al.

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I thank Dr. Lachassagne for his very detailed comment. For clarity I point out that this comment was volunteered, and not one of the reviews requested by me.

The comment reveals a thorough knowledge of the geomorphology and hydrogeology of Martinique, and I am sure the authors can greatly benefit from the insights provided in the comment.

As we move forward with the discussion of this paper, I would like to remind the discussion partners about the international readership of HESS. The discussion paper

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examines how new data collection methods can be used to develop hydrogeological models of andesitic watersheds, and uses Martinique as a case study. Dr. Lachassagne's comment shows that the authors chose their test site wisely: there is a wealth of geological information available that can be used to test their approach.

I would suggest as we move forward not to deviate too much from the current focus of the paper: testing the ability of new geophysical tools to support hydrogeological model development. I gather from the discussion so far that the available data (old and new) would permit a refinement of the current geological map of Martinique and the development of a detailed model of the hydrogeology of the island. These are undoubtedly worthy endeavours in their own right, but they are of limited interest to the majority of the HESS readership.

I therefore encourage the authors to consider Dr. Lachassagne's comment in light of the stated objectives of their study. I am confident the comment will help them clarify, refine, and perhaps even improve elements of their analysis.

Gerrit de Rooij

HESS Editor

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