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

Gerrit H. de Rooij (Editor)
gerrit.derooij@ufz.de

Received and published: 4 March 2019

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
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