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Natural Hazards and Earth System Sciences
Discussions

Interactive comment on "Stochastic downscaling of precipitation in complex orography: a simple method to reproduce a realistic fine-scale climatology" *by* Silvia Terzago et al.

Anonymous Referee #1

Received and published: 5 April 2018

The paper presents the application of a precipitation downscaling technique for climatological purposes. It is based on the Rainfall Filtered AutoRegressive Model (RainFARM). The rainfall downscaling algorithm (RaiFARM) is modified in order to account for realistic precipitation patterns generated by complex topography.

The conclusions of the work are interesting, and the topic is suitable for publication in Natural Hazard and Hearth System Science. The paper is well written and clear. The improvement of the methodology proposed here allows for applying the RainFARM approach also to climatological predictions.

It would be interesting to see how the modified RainFARM behaves in space-time.

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Discussion paper

For these reasons this paper should be accepted for publication.

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