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Use of GIS to compare observed and modeled precipitation in the VOLTAIRE project

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One of the main objectives is the comparison between observed and modeled rainfall. We have used Geographical Information Systems as an useful and powerful tool to compare observed and modeled precipitation. In this work, we present some results obtained comparing observed and modeled precipitation during the project.

Observed data are retrieved from the ground radar stands in Cyprus and TRMM precipitation radar. Modeled precipitation was forecast by two models, a hydrostatic model and a non-hydrostatic model. The convective precipitation, that is more difficult to forecast has been also considered in the comparison.