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Integration and visualization of some Earth scientific information and DEM

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DGEM, a Digital Geological Elevation Model, was developed using the digital geological map and the JPGIS DEM data with some GIS application and the R-Language. In the model, the information of the geological map was combined with the DEM by their coordinates. The integration of those two digital map was performed by the R-Language, so the model can be used by some useful presentation library of the language, such as the RGL, or by some geographical calculation libraries. Moreover, the DGEM will be used by the spatial statistical libraries of the R-Language to investigate some geological spatial distributed specifications.

Keywords: Digital geological map, DEM, JPGIS, QuantumGIS, R-language