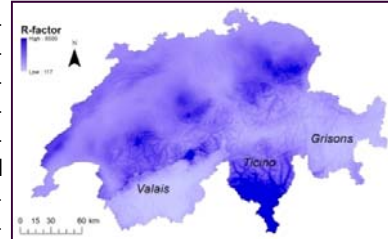


European Soil Portal: <http://eusoils.jrc.ec.europa.eu>

### **Rainfall Erosivity Factor (R-factor)**

Rainfall erosivity, considering rainfall amount and intensity, is an important parameter for soil erosion risk assessment under future land use and climate change. Despite its importance, rainfall erosivity is usually implemented in models with a low spatial and temporal resolution. Rainfall erosivity (R-Factor) dataset for Switzerland based on 71 stations and 22 years of measurements. Regression-kriging was used to interpolate the rainfall erosivity values of single stations and to generate a map for Switzerland. Users can **download/use the data and an executable application** (algorithm was implemented in C programming language) which calculates the R-Factor based on rainfall (10 min resolution) and temperature (1 h resolution) data. The code is subject to modification in case the users have different resolution data.



<http://eusoils.jrc.ec.europa.eu/library/themes/erosion/RainfallErosivity/>

### **Global Soil Partnership website**

The Food and Agriculture Organisation (FAO) has launched the Global Soil Partnership (GSP) website. The site informs about the 5 pillars of this action, the Terms of Reference and information on how to become a Partner. The GSP has as a mission to develop capacities, build on best available science, facilitate/contribute to the exchange of knowledge and technologies among stakeholders for sustainable management of soil resources at all levels.



<http://www.fao.org/globalsoilpartnership/home/en/>

### **13 Peer reviewed publications of SOIL Action staff during 2011**

- A quantitative review of the effects of biochar application to soils on crop productivity....
- Carbon in European soils
- Soil loss rates due to piping erosion
- Equilibrium versus disequilibrium of barchan dunes
- European digital archive on soil maps (EuDASM): preserving important soil data for public free access
- Regional mapping and characterisation of old landslides in hilly regions using LiDAR-based imagery in Southern Flanders
- Characterisation of productivity limitation of salt-affected lands in different climatic regions of Europe using remote sensing derived productivity indicators
- Are grasslands important habitats for soil microarthropod conservation?
- Assessing Soil Processes and Function across an International Network of Critical Zone Observatories: Research Hypotheses and Experimental Design
- An Evaluation of the Short-Term Progress of Restoration Combining Ecological Assessment and Public Perception
- Evaluating the Effect of Nutrient Levels of Major Soil Types on the Productivity of Wheatlands in Hungary
- Multi-scale European Soil Information System (MEUSIS): A multi-scale method to derive
- Prediction of spatial patterns of collapsed pipes in loess-derived soils in a temperate humid climate



[http://eusoils.jrc.ec.europa.eu/ESDB\\_Archive/eusoils\\_docs/doc\\_pub.html](http://eusoils.jrc.ec.europa.eu/ESDB_Archive/eusoils_docs/doc_pub.html)

### **ELSUS1000, the Classified Landslide Susceptibility Map of Europe**

The [European Landslide Expert Group](#) has recently finished version 1 of the ELSUS1000, the 1 km resolution Classified Landslide Susceptibility Map of Europe. This map is complying with EU's Soil Policy and aims to replace all previous continental scale landslide susceptibility assessments since it was prepared and evaluated using a large set of pan-European landslide information. By the end of the year the ELSUS1000 (together with ancillary data) will be made available in grid format through JRC's European Soil Data Centre (ESDAC). The map will be accompanied by a confidence level map. More details will follow.

[More Details](#)

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