



Global Soil Information Facilities – Component Worldgrids.org

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GSIF (Global Soil Information Facilities) is ISRIC's framework for production of open soil data. It has been inspired by global environmental data initiatives (e.g. oneGeology, GBIF). The main practical motivation for GSIF is to build cyber-infrastructure to collate legacy (i.e. historic) soil data currently under threat of being lost forever and to generate new soil information.

The objective of the component worldgrids is a (de)-central repository for collecting, storing, accessing and interacting with gridded data sets of global soil covariate data for production mapping, while being part of a larger GSIF. It is the physical implementation of the expectation that ISRIC would lead and coordinate a project to assemble a core data set of global environmental covariates to (partly) support local efforts to produce global soil property maps.

Currently over 100 layers with a 5 and 1 km resolution with a global coverage can be accessed via www.worldgrids.org. Three different functionalities are implemented to extract data in an OGC compliant manner: i) single point overlay ii) mass point overlay; iii) zone grid overlay with reporting of different statistical parameters.

The presentation will focus on datasets, functionalities, access via the R-project and ArcGIS globalsoilmap.net Toolbox as well on future enhancements to the worldgrids platform.