

### **Soil Profile Analytical Database 14 (SPADE14)**

The existing Soil Profile Analytical Database (SPADE), a component of the Eurasian Soil Database (ESDB), has been updated to include estimated analytical data for the dominant soil units (STUs) of the 1:1.000.000 Soil Geographical database of Europe. Among other attributes, the SPADE14 includes Depth, Horizon names, Bulk density, Carbon-to-Nitrogen ratio, Total carbonate, Gypsum, Cation exchange capacity, Electric conductivity, calcium, potassium, magnesium and sodium, Texture, Organic matter content, pH, Porosity, Structure, Water retention capacity. SPADE14 includes 1078 estimated soil profiles for 28 countries. Data are available in ESDAC:



<https://esdac.jrc.ec.europa.eu/content/spade-14>

### **LUCAS 2015 Topsoil data of Switzerland**

The dataset contains the data of physical and chemical properties analysed in samples taken in Switzerland within the context of LUCAS 2015 survey. These data have been used in the study "[Comparison of sampling with a spade and gouge auger for topsoil monitoring at the continental scale](#)". The LUCAS 2015 campaign in Switzerland had 150 sampling locations distributed in arable, grassland, and woodland land cover classes in mineral soils in Switzerland. At each sampling location, topsoil samples (0–20 cm) were taken with the LUCAS spade and the gouge auger sampling methods. Altogether, 300 samples were taken at the 150 locations: 150 samples with spade and 150 with gouge auger. The samples were analysed for texture properties, organic carbon, nitrogen, potassium, phosphorus, calcium carbonate, pH and electrical conductivity.



<https://esdac.jrc.ec.europa.eu/content/lucas-2015-topsoil-data-switzerland>

### **Joint JRC/ETHZ PhD vacancy in "Modelling Phosphorus cycle in EU agricultural soils and assessing land impact and land mitigation options"**

The PhD candidate will calibrate and validate the Phosphorus component of the JRC DAYCENT model at European scale, on top of the already available Carbon and Nitrogen components. At JRC, the candidate will use extensively LUCAS soil sampling data (the main chemical soil properties and change between 2009 and 2015) at high spatial detail (~22'000 geo-referenced samples in the European Union). In a second phase during her/his stay in ETHZ, the PhD candidate will integrate the modelling outputs (phosphorus flows from DayCent model) with a LCA framework. **Deadline application:** 31.8.2019.

**ETH** zürich

<https://esdac.jrc.ec.europa.eu/vacancies>

### **Eurosoil 2020 - 20th anniversary of the European Confederation of Soil Science Societies**

Eurosoil 2020 will take place in Geneva (Switzerland) in 24-28 August 2020. As the conference of the European Confederation of Soil Science Societies (ECSSS), Eurosoil is the soil voice of Europe. Eurosoil 2020 aims at tackling among others the environmental, social, economical and public policy goals related to / impacting soil use and services. In line with the Eurosoil2020 theme "Connecting People and Soil", the conference program will be structured around selected Sustainable Development Goals (SDGs) of the United Nations.



<https://eurosoil2020.com/>

#### **More Details**

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