

Temporary Dataset Download: Clay mineral inventory in soils of Europe based on LUCAS 2015 survey soil samples

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Purpose	The data will be used for academic research at Zhejiang University to investigate how soil mineralogical information derived from X-ray diffraction can improve soil property prediction using visible-near-infrared spectroscopy. We plan to link the XRD subset with LUCAS 2015 spectral and soil property data and explore mineralogy-guided multimodal learning and knowledge distillation. The data sources will be properly acknowledged, and all use will comply with the dataset terms.
Notes	

Notifications:

1. The data provided has been prepared for use by internal research activities in European Soil Data Centre (JRC Ispra) in collaboration with external organizations as documented in the associated publication.
2. The data were developed for research purposes of the JRC (European Commission). The JRC does not accept any liability whatsoever for any error, missing data or omission in the data, or for any loss or damage arising from its use. The JRC agrees to provide the data free of charge but is not bound to justify the content and values contained in the databases.
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4. The user agrees to:
 - a) Make proper reference to the source of the data when disseminating the results to which this agreement relates;
 - b) Participate in the verification of the data (e.g. by noting and reporting any errors or omissions discovered to the JRC).

References:

Yunta Mezquita, F., Van Liedekerke, M., Fernández Ugalde, O., Németh, T., Balázs, R.B., Keresztes, M.A., Weiszburg, T., Rábl, E., Királyné Tóth, J., Gazsi, Z., Kovács, I., Ruíz García, A.I., Cuevas, J., Van Eynde, E., Wojda, P., Panagos, P. and Jones, A., [Clay mineral inventory in soils of Europe based on LUCAS survey soil samples](https://data.europa.eu/doi/10.2760/986031,JRC136950), Publications Office of the European Union, Luxembourg, 2024, <https://data.europa.eu/doi/10.2760/986031,JRC136950>.