17-January-2026 04:01:11

Temporary Dataset Download: Maps of Soil Chemical properties at European scale based on LUCAS 2009/2012 topsoil data

ID	123615
Date - Time	Sun, 01/11/2026 - 20:23
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Purpose	The requested dataset will be used for academic research within a Master's thesis focused on developing and evaluating advanced Deep Learning models for soil pollution assessment. The data will support spatial analysis, model training, validation, and comparative evaluation of machine learning and deep learning approaches for environmental monitoring purposes.
Notes	

Notifications:

1. The data provided has been prepared for use by internal research activities in the Joint Research Centre (JRC, Ispra) in the context of developing soil property maps for the GlobalSoilMap.net project and the FP7 programme RECARE (Grant No 603498).
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.
3. The permission to use the data specified above is granted on condition that, under NO CIRCUMSTANCES are these data passed to third parties. They can be used for any purpose, including commercial gain.
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:

Ballabio, C., Lugato, E., Fernández-Ugalde, O., Orgiazzi, A., Jones, A., Borrelli, P., Montanarella, L. and Panagos, P., 2019. Mapping LUCAS topsoil chemical properties at European scale using Gaussian process regression. *Geoderma*, **355**: 113912.