

Temporary Dataset Download: LUCAS 2018 TOPSOIL data

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Name of User	Joao Leonardi
Organization	iCEV
Type of Organization	University
-- Other	
E-mail	joao_leonardi.melo@somosicev.com
Purpose	I am requesting the LUCAS 2018 topsoil dataset for a non-commercial academic study on the remote sensing of soil biological properties, conducted within the TERRA-Simulation research line at the Federal University of Technology - Paraná (UTFPR), Brazil. This request accompanies a request for the LUCAS 2018 soil function dataset, which provides the response variables for the same study. Soil pH is the strongest known predictor of bacterial community composition (Fierer & Jackson 2006; Lauber et al. 2009; Rousk et al. 2010), and available phosphorus governs mycorrhizal association. A model that predicts soil chemistry from imagery therefore delivers, implicitly, the two variables that most constrain the microbial community. The central question of my study is which pathway dominates: the direct one, in which the sensor resolves the community, or the covariate one, in which the sensor resolves the chemistry that governs it. The physicochemical variables in this dataset — pH, organic carb
Notes	

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24. **THE LICENCEE ACKNOWLEDGES TO HAVE READ, UNDERSTOOD AND AGREED TO BE BOUND BY THE ABOVE-MENTIONED TERMS AND CONDITIONS OF THE CONTRACT**

Technical assistance concerning the use of the LUCAS data can be obtained from : ec-esdac@ec.europa.eu

References:

How to cite the data and associated report/scientific publications:

Fernandez-Ugalde, O; Scarpa, S; Orgiazzi, A.; Panagos, P.; Van Liedekerke, M; Marechal A. & Jones, A. [LUCAS 2018 Soil Module. Presentation of dataset and results](#), EUR 31144 EN, Publications Office of the European Union, Luxembourg. 2022, ISBN 978-92-76-54832-4, doi:10.2760/215013, JRC129926

[Scientific publication](#) describing the LUCAS survey as a whole.

Orgiazzi, A., Ballabio, C., Panagos, P., Jones, A., Fernández-Ugalde, O. 2018. **LUCAS Soil, the largest expandable soil dataset for Europe: A review**. *European Journal of Soil Science*, 69(1): 140-153. <https://doi.org/10.1111/ejss.12499>