30-October-2026 01:10:08

Temporary Dataset Download: Soil electrical conductivity across Europe

ID	135287
Date - Time	Mon, 10/26/2026 - 18:46
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Purpose	Development of an open-source agricultural decision-support web application for the NASA Space Apps Challenge 2026. The dataset will serve as ground-truth baseline data to validate satellite-derived soil salinity indices and optimize sustainable crop rotation strategies in Mediterranean coastal agricultural zones.
Notes	

Notifications:

- The data provided has been prepared for use by internal research activities of the Joint Research Centre (JRC) in collaboration with AI4SoilHealth (Accelerating collection and use of soil health information using AI technology to support the Soil Deal for Europe and EU Soil Observatory), which was funded by the European Union Horizon Europe research and innovation program (Grant No. 101086179). .
- The data are the result of JRC research activities and are primarily made available for further research. 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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  b) Participate in the verification of the data (e.g. by noting and reporting any errors or omissions discovered to the JRC).

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References:

Zarif, M.A., Hassani, A., Afshar, M.H., Panagos, P., Lebron, I., Robinson, D.A., Or, D. and Shokri, N., 2026. **Modeling soil solution electrical conductivity across Europe**. *Science of The Total Environment*, **1047**: 182021.

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