

Temporary Dataset Download: Rainfall Erosivity in the EU and Switzerland (R-factor)

ID	123880
Date - Time	Thu, 01/15/2026 - 14:53
Name of User	Anamaria Comanescu
Organization	West University of Timisoara
Type of Organization	University
-- Other	
E-mail	anamaria.comanescu03@e-uvt.ro
Purpose	These data are required to estimate soil erosion in Romania using the RUSLE model by integrating climatic, topographic and land cover factors.
Notes	

Notifications:

1. The data provided has been prepared for use by internal research activities in the Joint Research Centre (JRC) Ispra. The data have been produced in 2013-2017 in collaboration between European Commission (Joint Research Centre), Institute of Environmental Geosciences, University of Basel and a number of European Meteorological and Environmental Institutions.
2. 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.
3. As the point data of REDES are raw data (Database of R-factor data for 1,675 stations), the use of such data should involve the contribution of JRC -Data are available in GloREDA database.
4. 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.
5. 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:

1. Panagos, P., Ballabio, C., Borrelli, P., Meusburger, K., Klik, A., Rousseva, S., Tadic, M.P., Michaelides, S., Hrabalíkova, M., Olsen, P., Aalto, J., Lakatos, M., Rymaszewicz, A., Dumitrescu, A., Begueria, S., Alewell, C. [Rainfall erosivity in Europe](#). *Science of the Total Environment* **511**: 801-814. DOI: 10.1016/j.scitotenv.2015.01.008
2. Panagos, P., Ballabio, C., Meusburger, K., Spinoni, J., Alewell, C., Borrelli, P. 2017. [Towards estimates of future rainfall erosivity in Europe based on REDES and WorldClim datasets](#). *Journal of Hydrology*, **548**: 251-262.
3. Ballabio, C., Borrelli, P., Spinoni, J., Meusburger, K., Michaelides, S., Beguería, S., Klik, A.,

- Petan, S., Janecek, M., Olsen, P., Aalto, J., Lakatos, M., Rymszewicz, A., Dumitrescu, A., Tadić, M.P., Nazzareno, D., Kostalova, J., Rousseva, S., Banasik, K., L., Alewell, C., Panagos, P. 2017. [Mapping monthly rainfall erosivity in Europe](#). *Science of the Total Environment* **579**: 1298-1315
4. Bezak, N., Ballabio, C., Mikoš, M., Petan, S., Borrelli, P., Panagos, P. 2020. [Reconstruction of past rainfall erosivity and trend detection based on the REDES database and reanalysis rainfall](#). *Journal of Hydrology*. Article number **125372**.
 5. Panagos, P., Ballabio, C., Borrelli, P., Meusburger, K. 2016. [Spatio-temporal analysis of rainfall erosivity and erosivity density in Greece](#). *Catena*, **137**, 2603, pp. 161-172.
 6. Borrelli, P., Diodato, N., Panagos, P. 2016. [Rainfall erosivity in Italy: a national scale spatio-temporal assessment](#). *International Journal of Digital Earth*, **9(9)**: 835-850
 7. Bezak, N., Mikoš, M., Borrelli, P., Liakos, L. and Panagos, P., 2021. [An in-depth statistical analysis of the rainstorms erosivity in Europe](#). *Catena*, 206, art.no **105577**
 8. Panagos, P., Borrelli, P., Spinoni, J., Ballabio, C., Meusburger, K., Beguería, S., Klik, A., Michaelides, S., Petan, S., Hrabalíková, M., Olsen, P., Aalto, J., Lakatos, M., Rymszewicz, A., Dumitrescu, A., Tadic, M.P., Diodato, N., Kostalova, J., Rousseva, S., Banasik, K. Alewell, C. 2016. [Monthly rainfall erosivity: conversion factors for different time resolutions and regional assessments](#). *Water*, **8(4)**, No 119.
 9. Panagos, P., Meusburger K., Ballabio C., Borrelli P., Begueria S., Klik A., Rymszewicz A., Michaelides, S., Olsen, P., Tadic, M.P., P., Aalto, J., Lakatos, M., Dumitrescu, Rousseva, S., Montanarella, L., Alewell C. 2015. Reply to the comment on "Rainfall erosivity in Europe" by Auerswald et al. 2015. *Science of the Total Environment*, **532**: 853-857.
 10. Meusburger, K., Steel, A., Panagos, P., Montanarella, L., Alewell, C. Spatial and temporal variability of rainfall erosivity factor for Switzerland. *Hydrology and Earth System Sciences*, 16, 167-177, 2012.