European Vegetation Archive
Data Request Form

To obtain data from the European Vegetation Archive (EVA), please first enquire the EVA database administrator Ilona Knollová (ikuzel@sci.muni.cz) whether the data meeting your needs are available. If they are, please fill in the form below and submit it to Ilona or another member of the EVA Coordinating Board.

- Applicant's name:

  Leonore Jungandreas

- Applicant's institutional address:

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  Puschstrasse 4
  04103 Leipzig
  Germany

- Applicant's e-mail:

  Leonore.jungandreas@idiv.de

- Project title:

  The interrelationship between below- and aboveground biodiversity

- Brief description of the aims and methods of the study:

  We want to investigate whether aboveground biodiversity is a good predictor of belowground biodiversity in general and across different land-use types. To do so, we plan to combine local measurements of belowground diversity (e.g., alpha and beta diversity for microbes, fungi and eukaryotes for the LUCAS European network of sites) with estimated values of aboveground diversity measurements, using the EVA dataset to estimate species composition at the LUCAS sites.

- Will someone else be involved in data editing or analysis in addition to the applicant?

  Carlos Guerra, Pedro Leitao, Nico Eisenhauer, Hannes Feilhauer and a PhD student

- Estimated time of delivery of results (e.g., manuscript submission):

  2024-2025

- Geographic area needed (e.g., countries or range of geographic coordinates):

  Europe

- Do you need plots to be georeferenced? If so, what is the minimum accuracy of plot location (in metres or kilometres) needed for your project?

  Georeferenced data would be appreciated. 1 km of minimum accuracy of plot location is needed.

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- Vegetation types needed (syntaxa):

We want to cover the whole European flora to investigate biodiversity in general.

- Other data selection criteria:

We need the years from 2005-2022 if possible to match with the LUCAS soil dataset.

- Envisaged publications:

Journal(s) in ecology and environmental sciences

- Data deposition. Some journals require data used for the analysis to be stored in a public repository to ensure the repeatability of the analysis. According to EVA Rules, you are not allowed to store the original vegetation-plot data obtained from EVA. However, if you plan to publish in such a journal, you may deposit a reduced EVA-derived dataset that (1) would make it possible to repeat the analysis published in the paper and (2) does not contain any information not used in the analysis. For example, such a dataset can contain only a subset of species (e.g., only angiosperms or only neophytes), or replace species names with codes, or replace species cover values with presences/absences, or remove all the header data, or replace the exact plot coordinates by coarse grid-cell coordinates etc. If you plan to deposit reduced information from vegetation plots, please describe here what might be deposited. If the project developed so that you needed to deposit more information than specified here, you would need to ask specific permission from the Custodians of the EVA databases used in your analysis before the dataset is deposited.

We follow the guidelines for transparency and reproducibility. Therefore, and depending on the journal rules we will store minimized versions of the dataset for example, replace species names with codes, cover values with presences/absences, or remove header description.

- Plant trait data from the TRY consortium. If you plan to combine your analysis of vegetation-plot data with plant trait data, you can also request for a dataset of 18 gap-filled traits for a large number of plant taxa prepared by the TRY consortium. These traits include Leaf area, Specific leaf area, Leaf fresh mass, Leaf dry matter content, Leaf C, Leaf N, Leaf P, Leaf N per area, Leaf N:P ratio, Leaf delta15N, Seed mass, Seed length, Seed number per reproductive unit, Dispersal unit length, Plant height, Stem specific density, Stem conduit density, and Conduit element length. This dataset can be provided to you from the EVA manager together with the vegetation-plot data. If you use this dataset, you must inform about your project the TRY data contributors who might be potentially interested and invite them as potential co-authors, assuming they will make an intellectual contribution to your paper. The list of the TRY data contributors will be sent to you together with the gap-filled trait dataset.

No

- Specification of the co-authorship arrangements in publications based on the requested data. Note that the EVA Rules recommend that co-authorship is offered to a representative of each database providing data that are particularly important for the project (e.g., a relatively large proportion of the final dataset used in the analyses or data from unique vegetation types or under-represented geographic areas). This database representative should be an expert in the topic of the project (not necessarily the custodian or deputy custodian), and this person should contribute to the project more than just by providing the existing data, e.g. by intellectual contribution to the concept of the paper, preparation of new data, or helping with data analysis, interpretation of the results or writing parts of the paper (see the IAVS Code of Professional Ethics: http://iavs.org/Governance/Code-of-Professional-Ethics.aspx). The project leader should enable active participation by regularly informing potential co-

authors about the progress of the project from its early stage. The project leader should also make final co-authorship arrangements based on the real input of the individual contributors.

> We offer co-authorship to one representative of each EVA database who registers for this project in the EVA online form and provides useful scientific contribution to this study.

- **Eligibility of the applicant to receive EVA data.** Specify to which EVA database the applicant has contributed; if the applicant is not the custodian or deputy custodian of an EVA database, give a name of a custodian or deputy custodian who supports this data request.

> This project is supported by Helge Bruelheide and Ute Jandt.

- I agree with the terms of EVA Data Property and Governance Rules as approved on 26 May 2012 (http://euroveg.org/download/eva-rules.pdf).
- In any result obtained based on this data, I will cite the EVA report paper (Chytrý et al. 2016; https://doi.org/10.1111/avsc.12191). In addition, I will cite individual source databases used in my project (if possible, in the list of References; if not possible, at least as a list of databases in the electronic supplementary material).
- If I ask for the plant trait data from TRY, I agree to invite to my project the TRY data contributors following the list received from the EVA database manager.

Leipzig, 05.12.2022

Leonore Jungandreas