



European Vegetation Archive Data Request Form



To obtain data from the European Vegetation Archive (EVA), including the ReSurveyEurope Database, please first enquire the EVA database administrator Ilona Knollová (ikuzel@sci.muni.cz) whether the data that meet 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 (or ReSurveyEurope Board if you ask for data from the ReSurveyEurope Database).

- Applicant's name:

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- Applicant's institutional address:

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- Project title:

Can we trust resurvey studies?

- Are you asking for core EVA data (non-repeated vegetation surveys) or for ReSurveyEurope data (repeated vegetation surveys)?

ReSurveyEurope

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

To assess temporal trends in vegetation, two methods are usually used. Permanent plots represent the most precise method, as they are marked in the field and regularly resampled, which provides a possibility to trace in detail where the changes in species diversity and composition occurred. Secondly, resurvey studies using historical phytosociological plots resampled with the same field sampling protocols as during the first sampling can be used to detect vegetation change. The number of resurvey studies increased significantly in the last decades as they provide a cost-effective solution to detect temporal trends in vegetation. However, the temporal trends detected in resurvey studies by comparison of two points in time may be influenced by extreme environmental conditions in one of the survey years and therefore not reflect the true trends in vegetation diversity and composition. The aim of our project is to test whether the analyses of vegetation change between two points in time reveal the same trends as analyses of long-term trends based on data from regularly resurveyed permanent plots. We will use permanent plot series and compare the trends detected by comparison of two points in time with the long-term trend detected by the analysis of the whole permanent plot series.

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



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No

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

Manuscript submission scheduled for 2025.

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

- 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?

- Vegetation types needed (syntaxa):

- Other data selection criteria:

We would like to request data from resurvey studies focused on grasslands that include at least 5 permanent plots surveyed at least 7 times in different years for at least 14 years. Based on these selection criteria, we would like to request data from the following ReSurvey projects: CZ_0015, CZ_0018, CZ_0027, CZ_0030, DE_0024, DE_0037_43, DE_0037_61, DE_0037_69, DE_0037_89, DE_0037_92, HU_0005, NL_0001.

- Envisaged publications:

We aim for a single scientific article in a high-impact journal focused on ecology

- **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.

Instead of the original vegetation-plot data, we will try to deposit the synthetic metrics computed at the analysis stage. Should the journal be insisting on requesting the storage of the original vegetation-plot data, we will only deposit the necessary data to reproduce the analysis and make them as anonymous as possible. This might include e.g. replacing species names with codes, exact plot coordinates with coarse grid-cell coordinates, removing header data or implementing similar measures.

- **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 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,



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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 by 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: https://www.iavs.org/page/governance_code-of-professional-ethics). 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.

Co-authorship will be offered to one representative (the custodian, or a person delegated by the custodian) for each ReSurveyEurope dataset included in the analysis, provided that the custodian (or delegated person) expresses interest in this project by filling out the EVA online form. Co-authors will be asked for intellectual input in the interpretation of results and to provide comments on the manuscript. ReSurveyEurope data custodians not included as co-authors will be mentioned in the Acknowledgements section.

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

Klára Klinkovská is the deputy custodian of the databases CZ_0019_042-051, Kryštof Chytrý is the custodian of the database CZ_0020, Milan Chytrý is the custodian of the Czech National Phytosociological Database (EU-CZ-001) and the Masaryk University's Gap-Filling Database of European Vegetation (EU-00-031), Stefan Dullinger is the custodian of the database AT_0007.

- 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>).
- If I ask for ReSurveyEurope data, I agree with the terms of ReSurveyEurope Data Property and Governance Rules as approved on 6 April 2022 (<http://euroveg.org/download/resurveyeurope-rules.pdf>).
- In any result obtained based on EVA core data (non-repeated vegetation surveys), I will cite the EVA report article (Chytrý et al. 2016; <https://doi.org/10.1111/avsc.12191>). In any result obtained based on the ReSurveyEurope data (repeated vegetation surveys), I



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will cite the ReSurveyEurope report article as soon as it is published. 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.

Brno (Czech Republic), 15. 11. 2024

Klára Klinkovská,

on behalf of all applicants