



# 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:

Shuya Fan

- Applicant's institutional address:

Czech University of Life Sciences Prague

- Applicant's e-mail:

shuya\_fan@foxmail.com

- Project title:

Temporal Dynamics of Darwin's Naturalization Conundrum

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

Both

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

This project investigates Darwin's naturalization conundrum from a temporal perspective, with a particular focus on how alien plant species already established within communities influence the subsequent establishment of other alien species. Specifically, it will test whether newly arriving alien species are more likely to establish when they are more similar to previously established species in terms of phylogenetic relatedness or functional traits.

To address this question, the project will combine long-term community survey data from the European ReSurveyEurope database and global BioTIME database, using time-series data from vegetation plots to characterize the temporal dynamics of plant community composition and alien plant establishment. These data will be integrated with species phylogenetic, functional trait, and native-range distribution data (EVA database) to assess how relationships between newly established alien species and previously established native and alien species influence the probability of subsequent invasions.

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

Dr. Petr Pyšek (Institute of Botany, Czech Academy of Sciences)  
Dr. Kateřina Berchová (Czech University of Life Sciences Prague)  
Dr. Andrew M. Liebhold (Czech University of Life Sciences Prague)



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



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Yes. We request access to the following trait data: life form, leaf area, specific leaf area, leaf dry matter content, leaf C, leaf N, leaf P, leaf N per area, leaf N:P ratio, seed mass, seed length, seed number per reproductive unit, dispersal unit length, plant height, and stem specific density. We would also like to request information on whether each trait value is derived from direct measurement or from imputation. If available, we would further appreciate detailed documentation of the imputation methods, including the underlying procedures, workflow, and any code or scripts used to generate the imputed trait values.

- 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](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.

A representative from each TRY, EVA and ReSurveyEurope will be considered as a co-author if their contribution exceeds 1% of the total plot count in the final dataset, provided they express interest by completing the EVA online form. Representatives contributing smaller datasets may also be invited as co-authors if their data originate from biogeographically important regions not covered by other databases. Co-authors will be kept informed about the project's progress and invited to provide intellectual contributions, such as assisting in result interpretation and/or actively participating in manuscript editing and writing. All data contributors not included as co-authors will be acknowledged in the publications.

- 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.

This data request is supported by Prof. Franz Essl and Prof. Petr Pyšek

- 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 will cite the ReSurveyEurope report article as soon as it is published. In addition, I will



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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.

Prague, 09/03/2026

Shuya Fan