



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:

Peter Walke

- Applicant's institutional address:

Stockholm Environment Institute Tallinn,
Erika 14,
10416 Tallinn,
Estonia

- Applicant's e-mail:

peter.walke@sei.org

- Project title:

Forest-web-3.0: Utilising microclimate to improve predictions of forest alpha diversity

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

Core EVA data and ReSurveyEurope data

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

Our study aims to test the feasibility of using microclimate data to improve the modelling of species richness in European forests. We have a large database of direct microclimate measurements from forests, with a subset of these having measurements of species richness. The database was assembled by our collaborators in the project, with this part led by Jonas Lembrechts at the University of Antwerp. We aim to use the EVA database to align species counts to locations where we have microclimate, but no richness data, in order to improve our training dataset.

We want to use our data to build a machine learning model trained on the residuals between observed and predicted species richness. We will thereby be able to understand under what conditions microclimate is an important predictor of residual biodiversity, and use that to improve large scale predictions that do not take it into account directly.

The results of the project will be aimed to be made available through an open source dashboard, and we aim to publish the results of our research. However, we will publish the modelled results, not the raw data. We would give clear attribution to your dataset in our publications.



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The data will not be used directly in any commercial product or service

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

Two of colleagues from SEI Tallinn

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

2026

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

All of 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?

Yes; I would request no minimum accuracy as of now. I would like to assess what accuracy would be appropriate once I have started looking at the data. However, it is unlikely that data that can't be located to less than 1 km could be useful for our needs.

- Vegetation types needed (syntaxa):

All Vascular plants

- Other data selection criteria:

Only data from forests; plot sizes between 80 and 1000 m².

- Envisaged publications:

1 – 2 articles discussing the representativeness of our microclimate data set and the feasibility of improving species richness models by including microclimate parameters.

- **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.

If data deposition was needed by the journal, only the minimum dataset to reproduce the analysis would be deposited. We would discuss any publication of the data with the database custodians and plot authors

- **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,



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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.

We would offer co-authorship to a representative of each database that expresses interest in the project and whose data provided more than 1 % of plots used in the final model, or that were deemed particularly important for its functioning. We would expect all authors to contribute intellectually to any articles in which they are co-authors.

- 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.

Has not contributed. The request is supported by the database custodian Jonathan Lenoir: NVD (ID = EU-00-018)

- 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 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.



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Tallinn, 12.02.2026

Peter Walke