



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:

Stephan Kambach¹, Ute Jandt^{1,2}, Helge Bruelheide^{1,2}, Milan Chytrý³

- Applicant's institutional address:

1) Institute of Biology/Geobotany and Botanical Garden, Martin Luther University Halle-Wittenberg, Große Steinstraße 79/80, 06108 Halle, Germany.

2) German Centre for Integrative Biodiversity Research (iDiv), Halle-Jena-Leipzig, Puschstrasse 4, 04103 Leipzig, Germany.

3) Department of Botany and Zoology, Faculty of Science, Masaryk University, Kotlarska 2, 61137 Brno, Czech Republic.

- Applicant's e-mail:

stephan.kambach@gmail.com

- Project title:

MOTIVATE - Monitoring Of Terrestrial habitats by Integrating Vegetation Archive Time series in Europe

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

ReSurveyEurope + core EVA data

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

In the Biodiversa+ funded MOTIVATE project, we aim at improving the characterisation and reporting on the state and trends of European habitats and plant biodiversity, in order to provide a deeper understanding of the pressures and drivers underlying biodiversity changes in Europe. MOTIVATE further aims at facilitating and securing future vegetation time series data and improve standardization and accessibility of biodiversity trend data for conservation managers and decision maker. We will leverage the ReSurveyEUROPE database with data from the ongoing monitoring of the European Habitat Directive to produce species- and habitat-specific assessments of plant biodiversity status and trends. Remote sensing products will be used for upscaling and attributing drivers to the observed changes in plant biodiversity. Motivate will further foster capacity-building via the involvement of multiple stakeholders and the establishment of an online platform to facilitate and secure additional and future sampling of vegetation time series across Europe. For specific topics to be studied, see



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the “Envisaged publications” box below. We submit single Data Request for several specific subprojects because all the subprojects will use the same standardized and stratified dataset, whose preparation will be time-consuming.

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

This project is part of an interdisciplinary collaboration within the Biodiversa+ funded MOTIVATE project which includes the following partner institutions and associated postdocs and PhD students (tba) that could be involved in the handling and analysis of the requested ReSurvey and core EVA data:

- the lab of Helge Bruehlheide (head of the Geobotany Group at the Martin Luther University Halle-Wittenberg, including Ute Jandt and Stephan Kambach)
- the lab of Florian Jansen (head of the landscape ecology group at the Rostock University)
- the lab of Franz Essl (head of the department of botany and biodiversity research at the University Wien, including Stefan Dullinger, Michael Glaser, Bernd Lenzer, and Dietmar Moser),
- the lab of Borja Jiménez-Alfaro (member of the biodiversity research institute and the University of Oviedo, including Jose Manuel Álvarez-Martínez and Susana Suárez-Seoane),
- the lab of Francesco Maria Sabatini (member of biological, geological and environmental science Department at the Alma Mater Studiorum – University of Bologna, including Alessandro Chiarucci and Duccio Rocchini),
- the lab of Marta Carboni (member of the department of science at the Università degli Studi Roma TRE, including Alicia Acosta),
- the lab of Milan Chytrý (head of vegetation science group at the Masaryk University Brno, including Irena Axmanová, Jan Divíšek, Klára Klinkovská, Ilona Knollová, Marcela Řezníčková, Lubomír Tichý, and Martin Večeřa), and
- the lab of Roger Norum (member of the faculty of humanities at the Oulu University, including Jonathan Carruthers-Jones, based at the University of Helsinki).

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

2025–2027

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

All plots, excluding Russia.

- 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?

Plot should preferably be georeferenced but also plots that lack coordinates will be incorporated in the analyses.

- Vegetation types needed (syntaxa):

All



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- Other data selection criteria:

- Envisaged publications:

The following papers in international journals are envisioned:

- Habitat maps of resurveyed habitats
- Temporal vegetation change by habitat type
- Analyses of historic species' abundance changes and range extension, including threatened and alien species
- Temporal changes in ecosystem properties of European habitats and relationships with community changes
- Upscaling biodiversity change inferred from vegetation-plot time series to the regional-extent using remote sensing
- Temporal trends in ecosystem properties and functions
- Drivers of biodiversity change in vegetation-plot time series across habitats and species
- Analysis of the relationships between survey data and expert perceptions
- Projections of historical changes in plant species abundance and range extent into the future based on different scenarios
- A framework for the monitoring of European habitats with remote sensing
- Thematic analysis of walking interviews with experts and next generation scientists

These papers will be supplemented with policy briefs on the biodiversity trends among European species, EUNIS and Annex 1 habitat types together with briefs summarising stakeholder perspectives on MOTIVATE outputs.

- **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 will not store the original relevé data. We may store a reduced dataset with coarse grid-cell coordinates and/or species identities replaced by codes. We may also store derived products such as coordinates of the mean species trait values or biodiversity trends per EUNIS habitat type. In any other cases, we will ask all data contributors for consent to deposit a specific reduced dataset.



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- 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.

Yes, all TRY data contributors will be informed together with an invitation of a potential co-authorship.

- 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.

One representative of each ReSurveyEurope and core EVA database (custodian or a person delegated by the custodian) that contributed more than 0.1% (ReSurveyEurope) or more than 1% (core EVA) plot observations to the final analyzed dataset (or less if the dataset is unique) will be considered a project partner provided this person expresses interest in this project by filling in the EVA online form. This person will be informed about the progress of the project and asked for intellectual contribution. Each database can have a different representative on different papers resulting from this project, depending on the specific expertise of different people in the database team and their willingness to actively contribute to the respective papers. Those database representatives who provide intellectual input in the analyses, interpretation and the manuscript will be offered co-authorship. All data contributors will be acknowledged in the resulting 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.

Ute Jandt and Helge Bruelheide are co-custodians of the GVRD Vegetation Reference Database Halle (EU-DE-014). 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).



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- 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.

Halle (Germany), Brno (Czech Republic)

01.03.2024

Stephan Kambach,

on behalf of Ute Jandt, Helge Bruelheide, Milan Chytrý