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:
  Gurvan Le Floch
- Applicant's institutional address:
  UMR DECOD, Institut Agro Rennes Angers, Rennes, France
- Applicant's e-mail:
  gurvan.lefloch@agrocampus-ouest.fr
- Project title:
  Synanthropy index of plant assemblages and conservation strategy
- Are you asking for core EVA data (non-repeated vegetation surveys) or for ReSurveyEurope data (repeated vegetation surveys)?
  Non-repeated vegetation surveys
- Brief description of the aims and methods of the study:

  The study aims to calculate a synanthropy index for vascular plants in Europe to inform strategic conservation decisions. The methodology is already developed (and is currently available on GitHub (https://github.com/lomorel/SynAnthrop). In addition, a datapaper is currently being written, as well as a scientific article on the use of the index, using vertebrates as an example). It is based on comparing the distribution of observed occurrences of species along an anthropization map with a randomly generated null distribution. The effect size is then estimated to measure each species' affinity for overall anthropization and thus classify them among taxa (e.g., plants). The indicator can then be applied at the community level. To obtain consistent values that can be used on a large scale, we intend to work at the European level (similar to what has recently been done with EVA data for Ellenberg (Tichý, et al., 2023) or disturbance values (Midolo et al., 2022)). The results will then be explored to interpret and discuss their potential use in supporting and adapting conservation strategies.

- Will someone else be involved in data editing or analysis in addition to the applicant?
  As an intern, I will likely be assisted by my tutors Loïs Morel (associate professor at Institut Agro) and Baptiste Bongibault (PhD candidate).
- Estimated time of delivery of results (e.g., manuscript submission):

My work will support my master's thesis for September 2026. We plan to submit a manuscript in the coming months.

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

I am working on Europe and I need as much data as possible covering this continent (including Iceland, Mediterranean islands, Turkey, Georgia, Armenia, Azerbaijan, etc.). I plan to use the WQI 2.0 map by Strus and Carver (2024) to crop the data (it includes the western part of Russia separated by the Urals, but this area lacks accurate data and is therefore not essential).

- 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?

The data must be georeferenced with a resolution of at least 1km2.

- Vegetation types needed (syntaxa):

I will be working on the Tracheophyta, but I can do the data selection.

- Other data selection criteria:

Only data collected after 1999 is relevant to our analysis.

- Envisaged publications:

The publications planned to be published concern, for the moment, at least one article in a macroecology journal to develop a new indicator for assessing the conservation status of habitats based on the affinities of plant species with anthropization/natural character.

- 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 do not plan to deposit full species data of individual vegetation plot. We plan to publish our results, ie the species score of synanthropy rank at national and european scale. In data archive we will only deposit raw data (species-site matrix but with roughly coordinates).

- 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.

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-proffesional-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 will share the preliminary results of the study with data contributors who register for this project via the online EVA form and whose data are selected for the study. Co-authorship will be offered to a representative from each database that provided more than 1% of the data used in the study, or less if that data is relevant to our analysis and provided that the representative expresses interest in this project via the online EVA form. In accordance with EVA guidelines, co-authors will be expected to make an intellectual contribution to the article.

- 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.

Finally, Jean Claude Gégout, a custodian of EVA EU-FR-005, agreed to support our project.

- 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.

[Rennes, France, 31/03/2026]

[Gurvan Le Floch]