



## European Vegetation Archive Data Request Form

To obtain data from the European Vegetation Archive (EVA), please first enquire the EVA database administrator Ilona Knollová (ikuzel@sci.muni.cz) whether the data meeting 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.

- Applicant's name:

Angela Lomba

- Applicant's institutional address:

CIBIO (Research Centre in Biodiversity and Genetic Resources) - InBIO (Research Network in Biodiversity and Evolutionary Biology), Associação BIOPOLIS, University of Porto, Portugal

- Applicant's e-mail:

angelalomba@fc.up.pt

- Project title:

Assessing the impacts of farmland abandonment on grasslands in Europe

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

Given the ongoing trends for agricultural abandonment, there is a pressing need to understand drivers underlying the distribution of grasslands and to assess the potential effects of agricultural abandonment on their diversity and extent across Europe, to support effective management and conservation.

This research project aims to answer the following questions: (1) what are the main social-ecological (SE) drivers shaping grasslands diversity and distribution across Europe?; and, (2) how will farmland abandonment impact grassland diversity and distribution?

Layers reflecting social and ecological drivers will be used to characterize grasslands from a SE perspective. Information on the risk of farmland abandonment will be used to assess the potential impact of the process on grasslands across Europe. Spatially-explicit modelling approaches will then be used to relate targeted SE drivers with the distribution and composition of grasslands, and to anticipate changes according to plausible future SE scenarios.

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

The applicant will be the only responsible for data editing and analysis.

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

Results are expected during 2023 third quarter, and manuscript submission on 2024.

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

Europe (geographical limitation).



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- 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, georeferencing is needed. No limitation in terms of minimum accuracy of the plot location.

- Vegetation types needed (syntaxa):

All grassland types within R EUNIS 2020 code (Table 1, Chytrý et al., 2020, Applied Vegetation Science 23: 648-675; doi: 10.1111/avsc.12519).

- Other data selection criteria:

This project replaces the previously submitted project 45, withdrawn due to severe delays regarding the availability of suitable (from a spatial resolution point of view) environmental layers to assess impacts of farmland abandonment. As the previous project goes back to 2016, this new request aims to assure that the research program is developed with the most updated information on grasslands across Europe.

- Envisaged publications:

Two publications are foreseen: (1) Impacts of farmland abandonment on grasslands extent and composition; and, (2) Modelling changes in grassland ecosystems distribution under scenarios of agricultural abandonment.

- **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.

No deposit planned. We agree to the statements listed here.

- **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 for 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 from 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



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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 EVA database (custodian or a person delegated by the custodian) will be considered as a co-author provided the custodian expresses interest in this project by filling in the EVA online form and the database provides > 2% of the final number of plots or fewer data from biogeographically important regions that are not represented in other databases. Co-authors will be asked to provide intellectual input in the interpretation of the results and commenting on the manuscript. All the other data contributors (custodians) of EVA and funding sources will be properly acknowledged in the resulting publications.

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

This data request is supported by Idoia Biurrun ([idoia.biurrun@ehu.eus](mailto:idoia.biurrun@ehu.eus)).

- 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>).
- In any result obtained based on this data, I will cite the EVA report paper (Chytrý et al. 2016; <https://doi.org/10.1111/avsc.12191>). 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.

Vairão, Vila do Conde, 20<sup>th</sup> October 2022

