



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:

Daniel Szokala

- Applicant's institutional address:

Department of Botany and Zoology
Faculty of Science, Masaryk University
Kotlářská 2
611 37 Brno

- Applicant's e-mail:

512772@muni.cz

- Project title:

Alpine and subalpine vegetation in Southeastern Europe, Anatolia, and the Caucasus: patterns of functional and phylogenetic diversity

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

The aim of the study is to assess the functional and phylogenetic diversity of the alpine and subalpine vegetation in the mountains of Southeastern Europe, Anatolia, and the Caucasus, as they feature high species richness, low human impact, and high diversity of bedrocks. Using the information about the functional and phylogenetic structure of plant communities, the study will explain the ecological and evolutionary determinants of the diversity of alpine and subalpine vegetation and their relationship with other vegetation types across Europe. The study will be mostly based on newly collected data in the field, which will be later analysed in the context of already existing plots from EVA. The EVA data will also be used to detect gaps in the current coverage of vegetation plots in the study area.

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

Data analysis, interpretation, and paper writing will be led by Daniel Szokala, a member of the Vegetation science group at the Department of Botany and Zoology, Masaryk University, Brno. Zdeňka Lososová, Milan Chytrý, and possibly also other employees of the Department of Botany and Zoology, MU, will be included in the data analyses.

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

4 years

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



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Balkans (Croatia, Bosnia and Herzegovina, Montenegro, Albania, Greece, North Macedonia, Serbia, Bulgaria, Kosovo), West Asia (Turkey, Armenia, Azerbaijan, Georgia)

- 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. Minimum accuracy should be 5 km; plots with no information on location accuracy should be selected too.

- Vegetation types needed (syntaxa):

All types of non-forest alpine and subalpine vegetation, including Carici rupestris-Kobresietea bellardii, Loiseleurio procumbentis-Vaccinietea, Calluno-Ulicetia, Nardetea strictae, Koelerio-Corynephorsetea canescentis, Sedo-Scleranthetia, Trifolio-Geranietea sanguinei, Roso pendulinae-Pinetea mugo, Rhododendro hirsuti-Ericetea carnae, Betulo carpaticae-Alnetea viridis, Mulgedio-Aconitetea (incl. Rumicion alpini), Juncetea trifidi, Elyno-Seslerietea, Festuco-Brometea, Montio-Cardaminetalia; and Oro- and Altimediterranean vegetation types, including Carici-Genistetia lobelia, Daphno-Festucetea, Diantho troodi-Teucrietea cyprii, Convolvuletalia boissieri, Poetalia bulbosae, Saginetalia piliferae, Rumici astragalietalia siculi, Anthemidetalia calabricae, Trifolietalia parnassii, Erysimo-Jurineetalia bocconeii, Carici-Genistetalia lobelii, Saturejo spinosae-Scutellarietalia hirtae, Androsacetalia alpinae, Drypidetalia spinosae, Sclerantho-Myositidion incrassatae, Artemisio glutinosae-Santolinion rosmarinifoliae.

- Other data selection criteria:

Non-forest vegetation above 1200 m a. s. l.

- Envisaged publications:

1–2 articles in international journals

- **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.

Original vegetation plot data will not be stored.

- **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



European Vegetation Archive Data Request Form

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.

Not needed.

- 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.

Daniel Szokala will be the lead author of the planned publications. Co-authorship will be offered to one representative of each EVA database contributing more than 1% of the final datasets who registers for this EVA project in the EVA online form. Further, persons with significant contributions to the conceptual development of the study, data analysis, or providers or analysts of other (phylogenetic, geographical) data may be invited as co-authors. Following the EVA rules and established practices, we expect co-authorship to be associated with an intellectual contribution to the paper, not merely with data provision.

- 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.

Daniel Szokala is a member of the Vegetation science group at Masaryk University, Brno. This application is supported by Zdeňka Lososová and Milan Chytrý.

- 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.

Brno 13.10.2022

Daniel Szokala