



Data Request Form

To obtain data from the European Vegetation Archive (EVA), please first make an enquiry to 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:

Šárka Špáníková², Jan Divíšek^{1,2}, Milan Chytrý²

- Applicant's institutional address:

Masaryk University, Faculty of Science, Department of Geography (1) and Department of Botany and Zoology (2) – Kotlářská 2, 611 37 Brno, Czech Republic

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- Project title:

The importance of soil pH data in broad-scale distribution modelling of European plant species

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

In this study, we aim to test the performance of new topsoil pH data provided by two databases as predictors in distribution modelling of European plant species. Based on published ecological indicator values, we selected species specialised to different parts of soil pH gradient (acid, neutral and alkaline soils) but also generalists that tolerate a wide range of soil pH values. We assume that the model performance for the species at the edges of the pH spectrum (extremely acidophilous or basophilous) will be better with soil variables included. On the other hand, models for generalists should not be effected by adding soil information so much.

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

Ilona Knollová and, if needed, other vegetation ecologists from Masaryk University.

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

July 2021

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

Europe – 75° N, 50° E, 35° N, 15° W

- 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 5 km

- Vegetation types needed (syntaxa):



Data Request Form

ALL

- Other data selection criteria:

Relevés with occurrence records of 31 European species listed below:

Ajuga pyramidalis
Betula nana
Drosera rotundifolia
Vaccinium uliginosum
Agrostis rupestris
Avenella flexuosa
Cornus suecica
Digitalis purpurea
Carex lasiocarpa
Gypsophila muralis
Hypericum androsaemum
Stellaria alsine
Chimaphila umbellata
Ajuga reptans
Adoxa moschatellina
Allium ursinum
Hepatica nobilis
Lilium martagon
Bromus tectorum
Cerinthe glabra
Asperula arvensis
Iris pumila
Micropus erectus
Acer platanoides
Anemone nemorosa
Bellis perennis
Cirsium arvense
Galeopsis speciosa
Lamium album
Poa annua
Ranunculus repens

- Envisaged publications:

One paper in an international journal.

- 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-



Data Request Form

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. We do not need any trait data.

- 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. 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.

Šárka Špániková will be the lead author of the planned publication. Co-authorship in papers will be offered to a representative of each database that will be represented by at least 3 of relevés included in the final analysis or fewer for databases in regions with general lack of data. We expect that the database custodians will nominate active co-authors who will contribute intellectually to the paper by checking and interpreting the results, providing conceptual ideas or contributing to paper writing.

- 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.

M. Chytrý is a custodian of the Czech National Phytosociological Database.

- 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, 3 June 2020

Šárka Špániková, Jan Divíšek and Milan Chytrý