



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:

Dr. Maria Majekova & Prof. Dr. Jürgen Dengler

- Applicant's institutional address:

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- Applicant's e-mail:

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- Project title:

Heterospecific plant soil feedback strength in relation to rarity, co-occurrence and relatedness in grassland communities

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

Plant soil feedbacks could play an important role in species coexistence in grassland communities. There is an indication that frequently co-occurring species promote each other's performance, while seldomly co-occurring species tend to suppress each other. However, our current knowledge is still very limited and more data is needed to confirm the positive relationship between species co-occurrence and plant soil feedback strength. In our study, we first conditioned soil for two years with 17 grassland species by growing them individually in pots in a common garden experiment. In the ongoing experiment we grow two phytometers in the conditioned soil and measure plant performance. With the data from the EVA database we plan to calculate a co-occurrence index, which reflects the frequency of co-occurrence between conditioning species and the two phytometers. This co-occurrence index will enable us to set plant soil feedback (calculated from plant performance data) in relation to species co-occurrence in grassland communities.

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



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Prof. Dr. Katja Tielbörger, Stefanie Gotterbarm

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

October 2020

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

Germany

- 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?

No

- Vegetation types needed (syntaxa):

Any grassland and coastal vegetation with occurrence of at least one of the two target species – *Cardamine pratensis* and *Cochlearia officinalis*.

- Other data selection criteria:

- Envisaged publications:

Journal of Ecology

- 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. 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.

We will offer each database that contributes at least 10% of the analysed data to nominate one person to become active co-author. If interested, the custodian of the



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respective database has to inform the first author during 3 weeks after having received the proposal whom they nominate.

- 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.

Jürgen Dengler

- 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.

Tübingen & Wädenswil, 07.08.2020

Dr. Maria Majekova & Prof. Dr. Jürgen Dengler