



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 Milan Chytrý (chytry@sci.muni.cz) or another member of the EVA Coordinating Board.

- Applicant's name:

Dr. Wolfgang Willner

- Applicant's institutional address:

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- Applicant's e-mail:

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- Project title:

Range formation of beech forest understory herbs

- Brief description of aims and methods of the study:

We will reconstruct the phylogeographies of six herb species which are strongly associated with beech: *Aposeris foetida*, *Cardamine trifolia*, *Euphorbia carniolica*, *Festuca drymeia*, *Hacquetia epipactis* and *Helleborus niger*. We base research on high-resolution DNA sequencing and employing explorative and hypothesis-driven phylogeographic approaches. Congruence among the phylogeographies of the studied species will be tested using a hierarchical Bayesian phylogeographic approach. We will determine the range filling of the study species using fine-scaled species distribution models. Additionally we will use a spatiotemporally explicit model simulating range dynamics of plants to unravel to which degree the species have realized their potential distribution range. For parameterization of models we are in need of georeferenced occurrence data of the six studied species.

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

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

2018

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

We are interested in records from the whole distribution ranges of *Aposeris foetida*, *Cardamine trifolia*, *Euphorbia carniolica*, *Festuca drymeia*, *Hacquetia epipactis*, *Helleborus niger*.

- Vegetation types needed (syntaxa):

Forests

- Other data selection criteria:

All plots with presence of *Aposeris foetida*, *Cardamine trifolia*, *Euphorbia carniolica*, *Festuca drymeia*, *Hacquetia epipactis*, *Helleborus niger*.

- Envisaged publications:

Results are intended to be published in high-ranked peer reviewed journals, preferably in leading journals such as *Journal of Evolutionary Biology*, *New Phytologist*, *Molecular Ecology*, *Systematic Biology*, *Annals of Botany*. We intend publication of the individual phylogeographies of the six studied species, an article focusing on the comparison of the individual phylogeographies, and an article on the autecology and geographic distribution of these species.

- Specification of the co-authorship arrangements in publications based on the requested data (e.g. the extent of possible involvement of the original data providers, or of EVA data managers if extra work for this project is needed from them):

Co-authors will be aside of the mentioned data editors Isabel Sanmartin & Peter Schönswetter. Database custodians will be offered co-authorship according to the EVA rules.

- Data requests by applicants who are not custodians or deputy custodians of the EVA databases must be approved by one of the EVA database custodians. Such requests should be submitted either by the custodian or by the applicant with CC to the custodian. If you are not a custodian, please indicate the name of the custodian who has approved your data request here:



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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>).

I am willing to contribute to the improvement of the quality of EVA databases by reporting any errors in these databases found during my work to the custodian of the particular database and to the EVA database manager Ilona Knollová (ikuzel@sci.muni.cz).

Vienna, 26 July 2016

Wolfgang Willner