



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:

Joshua André Erkelenz

- Applicant's institutional address:

Department of Botany and Zoology, Masaryk University, Kotlářská 2, Brno, Czech Republic

- Applicant's e-mail:

erkelenz@mail.muni.cz

- Project title:

Determinants of functional and phylogenetic diversity in Mediterranean forests.

- Brief description of aims and methods of the study:

This study investigates the key drivers of functional and phylogenetic alpha and beta diversity (FD / PD) along elevational gradients. The focus herein lies on Mediterranean forests in Europe, as they feature high species richness, moderate to low human impact and exist in diverse climatic and orographic regions. Expanding on previous research, I hypothesize that alpha and beta FD and PD decrease with elevation under harsher abiotic conditions; independently of species richness. The study plans to link present community composition (derived from EVA) with key functional traits and phylogenetic records and to analyse the resulting trait space with novel delineating techniques like probabilistic hypervolumes and classic approaches like the community weighted mean. The EVA data will also be used to detect gaps in the current coverage of vegetation plots, which may be filled by own inventory work within selected regions (e.g. Apennines).

The overall aim is to test in which way abiotic factors influence FD and PD in different regions and how much of their pattern can be explained by them. The data will also be used to determine the effect of invasive species on the functional and phylogenetic framework.

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

Data analysis, interpretation and paper writing in this project will be led by Joshua André Erkelenz, a member of the team of the Vegetation science group at Masaryk University, Brno. Further, Zdeňka Lososová and Josep Padullés Cubino will be involved in data analyses as well as other experts in data analysis at the Vegetation Science Group of Masaryk University, if needed. Confidentiality in data use will be guaranteed.



Data Request Form

- Estimated time of delivery of results (e.g. manuscript submission):
2022 (submission of first manuscript)
- Geographic area needed (e.g. countries or range of geographic coordinates):
Spain, Portugal, Andorra, France (excluding plots north of 47°), Italy, Slovenia, Romania, Croatia, Serbia, Kosovo, Albania, Macedonia, Monte Negro, Bosnia-Herzegovina, Bulgaria, and Greece
- 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, we will use all the available data.
- Vegetation types needed (syntaxa):
All forest types including both coniferous and deciduous forests but excluding plantations of non-native species.
- Other data selection criteria:
No.
- Envisaged publications:
1-3 publications in international journals that target an audience in functional ecology, macroecology and/or vegetation science
- 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. unique vegetation types, under-represented geographic areas) or make up more than 10% of the final dataset (5% threshold can be considered too). These database representatives should be experts in the topic of the project (they do not need to be the custodians or deputy custodians) and they 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.
Joshua André Erkelenz will be the leading author of the planned publications. The work will be done in cooperation with Zdeňka Lososová, Josep Padullés Cubino and other co-workers from Masaryk University. We will inform the data providers when major steps in the preparation of the concepts of the projects or in data analyses are achieved. Co-authorship will be offered to a representative of each database. Further, persons with significant contribution to data analysis (see above) or providers or analysts of other data (phylogenetic tree, geographical data) may be invited as co-authors. Following the EVA rules and established practices, we expect co-authorship to be associated with intellectual contribution to the paper, not merely with data provision.



Data Request Form

- 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.

Joshua André Erkelenz is a member of the Vegetation science group at Masaryk University, Brno. This application is supported by Zdeňka Lososová.

We agree with the terms of EVA Data Property and Governance Rules as approved on 26 May 2012 (<http://euroveg.org/download/eva-rules.pdf>).

Brno, 21st October 2021

Joshua André Erkelenz