



## 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:

Josep Padullés Cubino

- Applicant's institutional address:

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

- Applicant's e-mail:

padullesj@gmail.com

- Project title:

*Ecological and evolutionary determinants of recent diversity in European forests*

- Brief description of aims and methods of the study:

The topic of the study is to disentangle the ecological and evolutionary forces that shape recent diversity of plant communities. For this purpose, we will focus on European forest vegetation and its phylogenetic history. In general, high species richness may result from evolutionary processes, either from rapid speciation, or from gradual accumulation and preservation of different lineages of species. Alternatively, species richness patterns may be largely dependent on local environmental conditions. Patterns of species richness in European forests have recently been examined by Večeřa et al. (2019) with data from the EVA dataset. Here, we will combine species richness with phylogenetic data to determine areas of high phylogenetic diversity and high phylogenetic endemism. Our aims are to detect evolutionary centres of either rapid speciation or accumulation/preservation of species vs. areas without evolutionary signal but with suitable environment. This work will determine evolutionary centres of biodiversity of European forest vegetation.

- 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 Josep Padullés Cubino, a member of the team of the Vegetation science group at Masaryk University, Brno. Further, Milan Chytrý, Zdeňka Lososová, Jiří Danihelka and Martin Večeřa will be involved in data analyses. Other experts in data analysis at the Vegetation Science Group of Masaryk University may be involved in the analysis if needed. Confidentiality in data use will be guaranteed.

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



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2020 (submission of first manuscript)

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

Geographically delimited Europe plus Macaronesia, Anatolia and Cyprus.

- 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?

We only need plots with geographic coordinates and location uncertainty < 10 km

- 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 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.

Josep Padullés Cubino will be the leading author of the planned publications. The work will be done in cooperation with Milan Chytrý 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 that contributed at least 1% of the plots to the final dataset. 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.

- 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.



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Josep Padullés Cubino is a member of the Vegetation science group at Masaryk University, Brno. This application is supported by Milan Chytrý, the Custodian of the Czech National Phytosociological Database.

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, 25 June 2019

Josep Padullés Cubino