



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:

Robin Pouteau

- Applicant's institutional address:

Zhejiang Provincial Key Laboratory of Plant Evolutionary Ecology and Conservation,
Taizhou University (People's Republic of China)

- Applicant's e-mail:

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- Project title:

Invasion potential of the European endemic flora

- Brief description of aims and methods of the study:

Aim – Naturalization then invasion of alien species remain difficult to predict, perhaps because purpose-built models only focus on successes. In this study, we aim to gain insight into the underlying mechanisms of naturalization and invasion by analysing the drivers of both successes and failures.

Methods – We are planning to build species distribution models for the entire European endemic flora (> 5,000 species; Europe is the main donor continent of naturalized and invasive plants) based on EVA, GBIF, EU-Forest and Atlas Flora Europaeae data in order to predict the potential spread of the flora worldwide. Potential distributions will then be compared to realized distributions (given by the GloNAF database) to determine whether species have succeeded or failed to naturalize or invade in climatically suitable regions. Finally, this 'success/failure' variable will be included with a variety of socio-economic and environmental descriptors as well as species traits in a spatially-explicit multivariate model.

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

Mark van Kleunen (Ecology Group, Department of Biology, University of Konstanz, Konstanz, Germany)
Wilfried Thuiller (Laboratoire d'Écologie Alpine (LECA), UMR-CNRS, University of Grenoble Alpes, Grenoble, France)

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

2019-2020

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

Europe



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- 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 of 1 km

- Vegetation types needed (syntaxa):

All

- Other data selection criteria:

Only vegetation plots that contain at least one of 4995 species endemic to Europe (a list will be provided to the EVA data manager). Only occurrence data on these species will be used in the project

- Envisaged publications:

A least one research manuscript for a relevant peer-review journal in the field

- 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.

Yes

- 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.

Data contributors will be offered the opportunity to read a draft of the manuscript and decide whether or not they want to contribute. As per normal authorship rules, we expect all co-authors to make an intellectual contribution to the manuscript.

- 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.

Milan Chytrý



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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>).

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.

Taizhou, 10 December 2018

Robin Pouteau