



## 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:

Marc Riera

- Applicant's institutional address:

Centre of Ecological Research and Forestry Applications (CREAF), Autonomous University of Barcelona (UAB), Spain

- Applicant's e-mail:

marcr93@gmail.com

- Project title:

Paths of invasion: how does the way of introduction shape the range of invaded habitats?

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

This study will link invaded habitats to introduction pathways (socio-economic activities that introduce non-native plants, such as horticulture, trade, etc). Our first hypothesis is that different types of socio-economic activity affect different habitats, which we would test by assessing the relative contribution of different pathways to the pool of non-native plants in a wide range of habitats. Our second hypothesis is that unintentionally introduced plants would be present in a greater range of habitats (in line with previous research: Pyšek et al., 2011: 10.1371/journal.pone.0024890; Riera et al., in prep). Our aim is to test the second hypothesis in a solid conceptual framework, modelling additional factors that shape the outcome of invasion: plant traits, residence time and phylogenetic relatedness. The EVA database is perfectly suited to test these hypotheses, since it provides quality data on the presence of alien species in a wide range of habitats. Moreover, the broad geographical scope (Europe) will allow to draw robust generalizations.

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

M. Riera will lead data analysis, interpretation of results and paper writing, with input and guidance from M. Chytrý, P. Pyšek, and the applicant's PhD advisors: J. Pino, Y. Melero, L. Sáez. Other experts at the Vegetation Science Group of Masaryk University may be involved if needed. Confidentiality in data use will be guaranteed.

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

1 year.

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



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Geographically delimited Europe (including the British Isles), plus Anatolia, Macaronesia 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?

No. Nevertheless, geographical resolution should be enough to assign plots to a specific country.

- Vegetation types needed (syntaxa):

All vegetation types.

- Other data selection criteria:

No.

- Envisaged publications:

1 publication in an international journal, targeting an audience in ecology, vegetation science and and invasion 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.

M. Riera will be the leading author of the publication. The study will be done in collaboration with M. Chytrý, P. Pyšek, J. Pino, Y. Melero, and L. Sáez. Co-authorship will be offered to one representative of each database that contributed at least 2% of the final dataset, or contributed substantial data on vegetation types or geographical areas not covered by other datasets, provided this representative will register for



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collaboration in this project in the EVA form and offers a way how s/he can contribute to the project.

Some journals request that a dataset that allows to replicate the study is stored in a public repository. If that was the case, we would not store the original vegetation-plot data. As a maximum information, we would store just derived data, i.e. lists of non-native vascular plants per combinations of countries and habitats. The stored dataset would contain no exact coordinates or cover values.

- 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.

This request is supported by Milan Chytrý, coordinator of the European Vegetation Archive.

- 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.

[Bellaterra, January 2021]

[Marc Riera]