



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:

Eric GARNIER

- Applicant's institutional address:

Centre d'Ecologie Fonctionnelle et Evolutive
1919 route de Mende
34293 Montpellier Cedex 5
France

- Applicant's e-mail:

eric.garnier@cefe.cnrs.fr

- Project title:

Plant Functional Biogeography in the Mediterranean

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

One important pending question in ecology pertains to the understanding of how biodiversity and its various dimensions relate to the environment in different biogeographical contexts. Yet, our knowledge to answer this question remains fragmentary and inconsistent, seriously impeding our capacity to predict how ecological systems respond to changes, be they natural or human-induced, local or global. The overall objective of the project is to fill this knowledge gap using a functional approach to plant diversity in the specific case of the response of plants to drought and temperature, two major components of ongoing climatic changes affecting ecosystems. The project will combine existing botanical and trait data along environmental gradients in different biogeographical settings across the Mediterranean region, which is both one of the world's most important extratropical reservoir of plant diversity, and one of the most vulnerable areas of the planet to climate change.

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

Yes. At least one associate professor from the University of Barcelona and one post-doctoral researcher to be hired on the project.

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

End of year 2021.

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



Data Request Form

All relevés within the Mediterranean Biogeographic Region as delimited by Quézel & Médail (2003: *Ecologie et Biogéographie des Forêts du Bassin Méditerranéen*. Elsevier, Paris). A shape file delimiting the Region of interest is available if necessary. A list of relevés that cover this Region and available in EVA has already been established by Ilona Knollova (as of April 2018), and is attached to this form as an Appendix (does not include relevés that might have been added to EVA since then).

- 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, this is compulsory. Minimum accuracy of 1 km.

- Vegetation types needed (syntaxa):

All vegetation types

- Other data selection criteria:

No

- Envisaged publications:

One or several publications on trait-environment relationships along environmental gradients located in different geographical settings
A mapping of life forms across the Mediterranean Region
A tentative revised checklist of Mediterranean species based on species present in the relevés

- 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. The BROT data base, specific to the Mediterranean Region will be used (Juli Pausas, the manager of BROT, is a partner of the project).

- 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-



Data Request Form

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.

All contributing databases will be appropriately cited. The custodians and deputy custodians of the databases that contribute to plots located in the Mediterranean Region will be informed about the progress of the project. Once the final selection of plots has been made, each contributing database will be offered the opportunity to nominate one active coauthor. Such nominations will be accepted if the database contributed at least 5% of the data in the final dataset. It is upon the discretion of the first author whether to accept nominations of databases that contribute less. Any nominated author will have to make an intellectual contribution until the given deadlines in order to be listed as co-author at the submission stage.

- 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.

During the course of the project, we plan to digitize ~3000-5000 vegetation relevés from areas which are currently poorly covered in EVA: North Africa and Middle-East. These relevés will be made available in EVA.
Milan Chytrý, coordinator of the EVA database, supports this proposal

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.

Montpellier, 13 February 2020

Eric Garnier