



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:

Marta Carboni

- Applicant's institutional address:

Laboratoire d'Ecologie Alpine, UMR-CNRS 5553 Universite J. Fourier BP 53, 38041 Grenoble Cedex 9, France

- Applicant's e-mail:

marta.carboni@gmx.net

- Project title:

Mediterranean spatial phylogenetics

- Brief description of aims and methods of the study:

The majority of biological conservation targets species, yet other facets of diversity are increasingly thought to be important. One facet that has received a lot of attention is phylogenetic diversity—it offers a laundry list of potential conservation benefits and we increasingly have the ability to include it with new large phylogenies. This project would be a conservation assessment of the phylogenetic diversity and structure of Mediterranean plant communities, focusing also on patterns of paleo and neo endemism across the Mediterranean basin and other Mediterranean regions. This involves understanding the distribution of different types of diversity, how they are driven by environment and historical factors, and which combinations of sites are the most effective for preserving this diversity. Data from EVA will be merged with other available information on species occurrences in Europe (eg. GBIF data) to obtain grids of plant distributions that can be used to estimate diversity spatially. Further, similar distribution data will be collated in the four other Mediterranean regions of the world. The second step will be to build a phylogeny from the list of plant species occurring in the area by mining for sequences in Genbank. Then, by combining the spatial distribution and the phylogenetic information we can calculate phylogenetic diversity as well as measures of paleo and neo endemism that will be mapped and related to climatic and historical variables and also to current vegetation types through statistical modelling. The final outcomes will be a better understanding of where vulnerable diversity is, how much conservation gain could be made, and maps of high priority areas in the Mediterranean Basin. The second goal of the project will then be to compare the patterns found in the Mediterranean basin to the other four Mediterranean ecosystems in the World.

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



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A consortium from USA (Brent Mishler, Andrew Thornhill), France (eg. Wilfried Thuiller, Laura Pollock), Italy (eg. Marta Carboni, Alicia Acosta), Spain (eg. Pablo Vargas, Miguel Verdu) and Czech Republic (eg. Milan Chytrý, Ilona Knollova).

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

12-36 months

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

Mediterranean region of Europe including Portugal, Spain, southern France, Italy, coastal areas of Croatia, Bosnia and Hercegovina, Montenegro, Albania and Greece including islands.

- Vegetation types needed (syntaxa):

All terrestrial vegetation

- Other data selection criteria:

Plots with Geographic coordinates

- Envisaged publications:

1 publication on description of phylogenetic patterns in the Mediterranean basin in the short term. On the long term 1 publication on the comparison with other mediterranean ecosystems of the world (36 months).

- Specification of the co-authorship arrangements in publications based on the requested data (e.g. the extent of possible involvement of the original data providers, or of EVA data managers if extra work for this project is needed from them):

Database custodians will be informed about the progress of the study once first results will be there. Those custodians or other representatives of particular EVA databases who are interested in phylogenetic diversity issues can opt-in for co-authorship provided they will further participate in data-handling, taxonomic standardization or other methodological and conceptual aspects of the project. The co-authorship will be negotiated on a case-by-case basis.

- Data requests by applicants who are not custodians or deputy custodians of the EVA databases must be approved by one of the EVA database custodians. Such requests should be submitted either by the custodian or by the applicant with CC to the custodian. If you are not a custodian, please indicate the name of the custodian who has approved your data request here:

Milan Chytrý

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>).



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I am willing to contribute to the improvement of the quality of EVA databases by reporting any errors in these databases found during my work to the custodian of the particular database and to the EVA database manager Ilona Knollová (ikuzel@sci.muni.cz).

Grenoble, 2 October 2016

Marta Carboni