



## 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:

Daniel Krstonošić

- Applicant's institutional address:

Faculty of Forestry, University of Zagreb

- Applicant's e-mail:

dkrstonosic@sumfak.hr

- Project title:

Phenotypic and Genetic Diversity of Pedunculate oak (*Quercus robur* L.) in Europe – FGErobur

- Brief description of aims and methods of the study:

The ecological niche of common oak will be analyzed to determine the change of niche breadth and its optimum, as well as the realized niche position within the available ecological space along the geographical gradient of this species. The niche will be analysed using a combination of data of common oak distribution from the EVA database and other sources for the whole Europe and environmental variables with various statistical packages and software (SAS, ecospat R package, Juice v7.0). Also a niche width of common oak will be defined using the method of species co-occurrence based assessment of habitat specialization. The ecological niche model will be created using the method of maximum entropy, which is implemented in the program Maxent (Phillips et al. 2006). After processing and analysing, a visualization model will be created in ArcGIS Desktop 10.2 software. The study will also combine some phenotypic and genetic diversity analysis of common oak populations according environmental conditions in which these populations develop. Since the ability of forest tree species to adapt to a certain level of environmental condition changes in their habitats, including global climate changes, greatly depend on their ecological niche breadth and their phenotypic and genetic diversity.

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

Željko Škvorc, Martina Temunovic, Krunoslav Sever, Jozo Franjic, Sasa Bogdan, Ida Katicic

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

End 2016 – manuscript submission

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



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All European countries.

- Vegetation types needed (syntaxa):

Every type where *Quercus robur* occurs.

- Other data selection criteria:

A selection of relevés not assigned to any syntaxa but containing *Q. robur* species.

- Envisaged publications:

1 or 2 publications

- 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):

All participating databases will be appropriately cited in the paper. We will give all data contributors the opportunity to read a draft of the manuscripts. If further help and assistance in data analysis, discussion and publication will be needed, we will offer co-authorship to all contributors who will be interested in participating actively.

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>).

Zagreb, 5.12.2015

Daniel Krstonošić