



European Vegetation Archive Data Request Form



To obtain data from the European Vegetation Archive (EVA), including the ReSurveyEurope Database, please first enquire the EVA database administrator Ilona Knollová (ikuzel@sci.muni.cz) whether the data that meet 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 (or ReSurveyEurope Board if you ask for data from the ReSurveyEurope Database).

- Applicant's name:

IOANNIS VOGIATZAKIS

- Applicant's institutional address:

Open University of Cyprus, 33 Yiannou Kranidioti Avenue, 2220 Latsia, Nicosia, Cyprus

- Applicant's e-mail:

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- Project title:

Species competition and climate change velocity

- Are you asking for core EVA data (non-repeated vegetation surveys) or for ReSurveyEurope data (repeated vegetation surveys)?

Core EVA data

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

The largest mediterranean islands hosts mountains which have provided refuge to many endemic species relics of past biogeographical patterns. There is mounting evidence for climatic change in the region resulting in biological responses which include upward elevation shifts of more thermophilous species towards higher bioclimatic zones. These changes are often manifested as increased interspecific competition, the extent of which is likely to depend among other things on the speed of climatic changes.

The paper aims to test whether there are differences in velocities among the large mediterranean islands between pairs of competing tree species. For five of the largest Mediterranean islands ((Sicily, Sardinia, Cyprus, Corsica, Crete) we will use a pair of trees (one per island) comprising one species which dominates the supra- mediterranean (1000 – 1700) and one which dominates the mountain-mediterranean (1500 – 2300) zone where interspecific competition has been evidenced on the ground as a result of climated change. We will calculate bioclimatic velocity based on two climate change scenarios (SSP1-2.6 and SSP5-8.5) in two time-periods, mid-century and late-century.



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We ask for plot data and (e.g., coordinates, altitude, date, etc) which contain the species mentioned herein from the five Mediterranean islands.. No info on other species and their abundance are requested for this study.

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

Alessandro Chiarucci, Riccardo Guarino, Emmanuele Farris, Lilla Ferat in addition to the applicant's research group

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

Assuming that will have the data in September we would need six months for paper submission (i.e. March 2025)

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

Mediterranean islands of Cyprus, Crete, Sicily, Sardinia, Corsica

- 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 with minimum accuracy of 1km

- Vegetation types needed (syntaxa):

No vegetation types, just plot location data for the species and islands mentioned below

- Other data selection criteria:

We would need plot data for five Mediterranean islands where the following species are present

| | | |
|----------|------------------------|--------------------------------|
| Sicily | <i>Betula etnensis</i> | <i>Pinus nigra ssp laricio</i> |
| Sardinia | <i>Quercus ilex</i> | <i>Quercus pubescens</i> |
| Corsica | <i>Pinus pinaster</i> | <i>Pinus nigra ssp laricio</i> |
| Crete | <i>Pinus brutia</i> | <i>Cupressus sempervirens</i> |
| Cyprus | <i>Pinus brutia</i> | <i>Pinus nigra</i> |

- Envisaged publications:

One paper related to the effects of bioclimatic velocity on species competition in a well-established international, peer-reviewed journal focusing on ecology, macroecology or conservation

- Data deposition. Some journals require data used for the analysis to be stored in a public repository to ensure the repeatability of the analysis. According to EVA Rules, you are not allowed to store the original vegetation-plot data obtained from EVA. However, if you plan to publish in such a journal, you may deposit a reduced EVA-derived dataset that (1) would make it possible to repeat the analysis published in the paper and (2) does not contain any information not used in the analysis. For example, such a dataset can contain only a subset of species (e.g., only angiosperms or only neophytes), or replace species names with



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codes, or replace species cover values with presences/absences, or remove all the header data, or replace the exact plot coordinates by coarse grid-cell coordinates etc. If you plan to deposit reduced information from vegetation plots, please describe here what might be deposited. If the project developed so that you needed to deposit more information than specified here, you would need to ask specific permission from the Custodians of the EVA databases used in your analysis before the dataset is deposited.

We will comply with the terms and conditions of EVA in the case that datasets will be requested from the journal. Data about the occurrence of the target species only are to be provided if they are specifically requested. The species co-occurrence data will not be passed to any repository

- **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 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 by 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 plant trait data are needed

- **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., a 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: https://www.iavs.org/page/governance_code-of-professional-ethics). 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.

We intend to mention data custodians or representatives in the Acknowledgments section of the paper. If any custodian or representative manifest interest in this project by filling in the EVA online form co-authorship will be offered. All co-authors are expected to provide intellectual input and comments on all manuscript versions

- **Eligibility of the applicant to receive EVA or ReSurveyEurope data.** Specify to which EVA or ReSurveyEurope database the applicant has contributed; if the applicant is not the custodian or deputy custodian of an EVA or ReSurveyEurope database, give a name of a custodian or deputy custodian who supports this data request.

Alessandro Chiarucci, custodian of AMS-VegBank and member of EVA is contributing to this investigation.

- 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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- If I ask for ReSurveyEurope data, I agree with the terms of ReSurveyEurope Data Property and Governance Rules as approved on 6 April 2022 (<http://euroveg.org/download/resurveyeurope-rules.pdf>).
- In any result obtained based on EVA core data (non-repeated vegetation surveys), I will cite the EVA report article (Chytrý et al. 2016; <https://doi.org/10.1111/avsc.12191>). In any result obtained based on the ReSurveyEurope data (repeated vegetation surveys), I will cite the ReSurveyEurope report article as soon as it is published. 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.

Nicosia, 27/8/24

IOANNIS VOGIATZAKIS