



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:

Riccardo Guarino

- Applicant's institutional address:

Department of Biological, Chemical and Farmaceutical Sciences and Technologies,
University of Palermo

- Applicant's e-mail:

riccardo.guarino@unipa.it

- Project title:

ProParts – Developing strategies for the protection of taxa consisting of interconnected sexual and parthenogenetic reproducing strains

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

core EVA data + ReSurveyEurope

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

The loss of genetic diversity is considered a key element in entering the extinction vortex. Shrinking population size reduces the number of genetic variants available to cope with changes in habitat conditions. Together with other factors such as genetic drift, this loss progressively decreases the fitness of any given species. This is especially true for asexually reproducing species, where recombination of traits is limited to the genetic variability of a single parent. The conservation of genetic diversity is thus a central element of conservation concepts. In our project we targeted *Chara canescens*, a stonewort alga. This species has mostly asexually reproducing populations, but also a few sexually reproducing populations. The asexual populations are widespread and found throughout Europe, with populations also known from North America, Australia and Central Asia. The sexual populations are very rare and scattered, with only 5 sites currently known, all of them in Europe. As a part of the project, we would like to combine EVA data and unpublished vegetation plots sampled during our field activities in order to characterize the plant communities where *Chara canescens* is occurring throughout Europe.

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

Riccardo Guarino, Pablo Garcia Murillo, Dario Salemi, Hendrik Schubert, Angelo Troia

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

2 years



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

Europe

- 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, minimum accuracy 5 km

- Vegetation types needed (syntaxa):

All vegetation plots classified as *Charion canescenscentis* Krausch 1964, plus all vegetation plots having *Chara canescens* in the species list, regardless of any eventual classification.

- Other data selection criteria:

To better circumscribe the alliance *Charion canescenscentis*, we would also like to analyze:

- all data that include Charophytes of any kind and are assigned by the Eunis Expert System (ES) to habitats P3a and P3h.
- all relevés that include Charophytes of any kind and are assigned by the ES to the classes *Charetea*, *Potamogetonetea*, *Phragmitetea* and *Ruppieteae* (and subordinate syntaxa). We assume that these relevés largely overlap with those assigned to habitats P3a and P3h.
- all data that include any of the following species: *Chara aculeolata*, *Chara affinis*, *Chara altaica*, *Chara aspera*, *Chara baltica*, *Chara connivens*, *Chara contraria*, *Chara corfuensis*, *Chara galioides*, *Chara globata*, *Chara globularis*, *Chara hispida*, *Chara horrida*, *Chara intermedia*, *Chara kirghisorum*, *Chara neglecta*, *Chara oedophylla*, *Chara papillosa*, *Chara tomentosa*, *Chara uzbekistanica*, *Chara virgata*, *Chara vulgaris* var *oedophylla*, *Chara zeylanica*, *Lamprothamnium papulosum*, *Lamprothamnium sardoum*, Mediterranean *Chara*, *Nitella capillaris*, *Nitella confervacea*, *Nitella flexilis*, *Nitella hyalina*, *Nitella mucronata*, *Nitella opaca*, *Nitella ornithopoda*, *Nitellopsis obtusa*, *Sphaerochara canadensis*, *Sphaerochara intricata*, *Sphaerochara prolifera*, *Tolypella canadensis*, *Tolypella glomerata*, *Tolypella hispanica*, *Tolypella intricata*, *Tolypella nidifica*, *Tolypella normaniana*, *Tolypella prolifera*, *Tolypella salina*.

- Envisaged publications:

1 publication on the vegetation with *Chara canescens* in Europe and (perhaps, not sure yet) 1 publication to test the comprehensiveness of distribution data captured by EVA, GBIF, and GIFT for *Chara canescens* in Europe.

- 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



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contain only a subset of species (e.g., only angiosperms or only neophytes), or replace species names with 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 ask specific permission from the custodians before the dataset is deposited

- 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.

Yes

- 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 offer co-authorship to custodians with relatively large proportion (2% of the final dataset) used in the analyses and also custodians interested in the topic that will offer intellectual contribution in data preparation and analyses and interpretation of the result

- 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.

Hendrik Schubert - Aqua_DE_BalticSea (ReSurvey data)

- 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 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>).



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- 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.

[Palermo, 16/06/2026]

[Riccardo Guarino]