



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:

Jacopo Iaria

- Applicant's institutional address:

Department of Biology, geology and environmental science, University of Bologna

- Applicant's e-mail:

jacopo.iaria@unibo.it

- Project title:

Vegetation resurvey studies in Europe, a review on methodologies, bias and mitigating techniques

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

ReSurveyEurope data

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

The study consists in a systematic literature review of vegetation resurvey studies in Europe. It focuses on methods of analysis including how data are transformed, hypothesis tested, models used, and whether the studies results underline a trend in vegetation diversity in time.

250 study were selected in web of science and subsequently filtered according to the study area being in continental Europe (including Norway and Kaliningrad) and by the pertinence of the study. For each one variables were selected including: country in which the study area is located, habitat investigated, survey and resurvey years, sampling scheme, bias considered, bias mitigation measure, hypothesis tested, variables transformations, covariates, statistical technique used, and obtained results. Result will be grouped and analyzed to answer the following questions:

– What are the most used sampling designs, considered biases, analysis techniques utilized, and their advantages and disadvantages In European vegetation resurvey studies?



– What are the trends in time of the total and habitat characteristic species in Europe shown by resurvey studies?

we have already extracted all the data from the papers but we miss plot location data. So, we ask for plot data (e.g., coordinates, altitude, date, etc). No info on species and their abundance are requested for this study. plot location data will be used for making spatial geographic analysis and producing figures such as point density maps.

the papers for which we ask plot location data are reported in the list attached.

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

Yes, Victor Hugo Guerrero, a master student of University of Bologna who is conducting his master's thesis on the project; Alessandro Chiarucci, supervisor of my PhD project.

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

Planned submission of the manuscript will be submitted around December 2024.

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

Europe (including Norway and Kaliningrad)

- 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, there is no minimum accuracy needed for the location as the analysis will be conducted just on the station data but if possible an indication of the inaccuracy is greatly appreciated.

- Vegetation types needed (syntaxa):

No vegetation types, just plot location data

- Other data selection criteria:

We kindly ask just for plot location data of each plot involved in the resurvey study that is present in ReSurveyEurope. I've attached the list of articles of our interest.

- Envisaged publications:

One scientific review in a well-established international, peer-reviewed journals focused 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 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.

Being funded under the Horizon Europe framework, the project must adhere to open science principles such as FAIR. It is thus likely that the manuscripts will be submitted to such journals. So, we will deposit the metrics we computed while reviewing the articles. If the journal will insist on requesting the original vegetation-plot station data we will only deposit the necessary data to reproduce the analysis. Furthermore such data will be made as anonymous as possible by exact plot coordinates with coarse grid-cell coordinates. No species data will be stored.

- 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 coauthors, 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

- 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: <http://iavs.org/Governance/Code-of-ProfessionalEthics.aspx>). The project leader should enable active participation by regularly informing potential coauthors 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.

Considering that we are going to use only station data for the analysis we will mention ReSurveyEurope data custodians or representative in the Acknowledgments section. If any custodian or representative manifest interest in this project by filling in the EVA online form co-authorship will be offered and Co-authors will be asked for intellectual input and to provide comments on the manuscript.

- 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.



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EU-IT-021 (ReSurveyEurope, AMS-VegBank – Alma Mater Studiorum – University of Bologna custodian: Alessandro Chiarucci)

- 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>).
- 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.

Rome, July 17th 2024

Jacopo Iaria