



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:

Henk Krajenbrink

- Applicant's institutional address:

KWR Water Research Institute
Groningehaven 7,
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The Netherlands

- Applicant's e-mail:

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- Project title:

The combined effect of nitrogen deposition and climate change on dry heathland habitats

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

Ideally repeated vegetation surveys, but given the possibly limited spatial coverage of ReSurveyEurope, the core EVA data is also of interest for our project. Hence we would like to request both and check data availability later

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

Aim: to disentangle the effects of nitrogen deposition and climate on dry heathland vegetation on sandy soils across a broad N-deposition and climatic range. This would enable making robust predictions about the combined impact of N-deposition and climate change on dry heath communities.

Methods: Step 1 is compiling an international vegetation dataset that covers a broad N-deposition and climatic range within the temperate Atlantic and continental region of Europe. The international dataset will be based on a selection of recent (ideally 2010 or later) vegetation surveys of dry heathland habitat on sandy soils.

Step 2 is performing statistical analysis (e.g. GLMM approach) on derived vegetation variables using explanatory variables including accumulated nitrogen load and climatic variables (e.g. drought-related).

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

Camiel Aggenbach, Edu Dorland (KWR)



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

1 year

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

We will focus on the temperate Atlantic and continental region, including the following countries/regions: Ireland, UK, France, Belgium, Netherlands, Germany, Denmark, Southern Sweden & Norway, Poland and Baltic countries, Italy, Czech Republic, Slovakia, and northern coastal Spain.

- 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, < 10 km

- Vegetation types needed (syntaxa):

Dry Heathland vegetation (current EUNIS classification: S42 – formerly F4.2);
Coastal dune heaths (EUNIS classification: N19 – formerly B1.5).
Or in general, all plots with coverage *Calluna vulgaris* > 10% OR *Empetrum nigrum* > 10%

- Other data selection criteria:

NA

- Envisaged publications:

Scientific report in English

- 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.

We will not store data in a public 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.

Yes



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- 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-Professional-Ethics.aspx>). 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.

As a first step, we will conduct a data analysis and report the results in a scientific report. In a future project, we intend to write a peer-reviewed scientific paper with some further analyses. For this, we will contact the representatives of the relevant datasets to collaborate in writing this paper.

- 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.

Stephan Hennekens Dutch National Vegetation Database (EU-NL-001)

- 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.

Nieuwegein, The Netherlands, 11 May 2023

Henk Krajenbrink