European Vegetation Archive

Data Request Form

To obtain data from the European Vegetation Archive (EVA), please first enquire 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 Ilona or another member of the EVA Coordinating Board.

- Applicant's name:
  Dr. Christin Loran
- Applicant's institutional address:
  German Environment Agency, Wörlitzer Pl. 1, 06844 Dessau-Roßlau, Germany
- Applicant's e-mail:
  Christin.loran@uba.de
- Project title:
  Creation of a harmonized land cover map as an example for the entire region of the Geneva Air Pollution Convention
- Brief description of the aims and methods of the study:

  Aim of the project is to create an up-to-date harmonized land cover map for the area of the member countries of the Geneva Air Pollution Control Convention (CLRATP) in order to calculate Critical Loads for natural and semi-natural ecosystems.

  We, the Coordination Centre for Effects (CCE, https://www.umweltbundesamt.de/en/Coordination_Centre_for_Effects), are the data centre of the ICP Modelling and Mapping (under the CLRTAP) and located at the German Environment Agency.

  The CCE calculates the critical loads and their exceedances for natural and semi-natural ecosystems for Europe. Critical loads are a quantitative estimate of an exposure to one or more pollutants at levels below which significant harmful effects on specified sensitive elements of the environment do not occur according to present knowledge. A protected good (also called "receptor") can be an entire ecosystem or any part thereof, for example individual plant species.

  The basis for calculating critical loads is our receptor map (land cover, vegetation, soil), which we are currently updating as part of the above mentioned project. The map will include EUNIS classifications up to Level 3 in order to calculate critical loads. To produce the EUNIS level 3 map, we are requesting the EVA database used in the paper by Chytrý et al. (2020) EUNIS Habitat Classification. Our goal is to produce similar distribution maps of European EUNIS level 3 habitats described in the paper.
- Will someone else be involved in data editing or analysis in addition to the applicant?

UBA has contracted EOSS GmbH (https://www.eoss.cloud/en/index.html) to carry out the project and develop the map. Steffen Gebhardt, Michael Schmidt and Thilo Wehrmann are involved in the project on the part of EOSS.

- Estimated time of delivery of results (e.g., manuscript submission):
  May 2023

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

- 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?
  Same as in Chytrý et al. (2020) EUNIS Habitat Classification: Expert system, characteristic species combinations and distribution maps of European habitats

- Vegetation types needed (syntaxa):
  Same as in Chytrý et al. (2020) EUNIS Habitat Classification: Expert system, characteristic species combinations and distribution maps of European habitats.
  I request for the coordinates of the plots with assignment to EUNIS units.

- Other data selection criteria:
  Same as in Chytrý et al. (2020) EUNIS Habitat Classification: Expert system, characteristic species combinations and distribution maps of European habitats

- Envisaged publications:
  Technical project report published by the German Environment Agency

- 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.

- 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 for 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 from 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

- 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.

  A scientific publication is not planned within the framework of the project, therefore no co-authorship. At the end of the project, there will only be a technical report describing the new harmonised receptor map as a basis for the calculation of critical loads.

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

  Milan Chytrý

- 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).
- In any result obtained based on this data, I will cite the EVA report paper (Chytrý et al. 2016; https://doi.org/10.1111/avsc.12191). 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.

Dessau, 28.03.2022

Dr. Christin Loran