European Vegetation Archive
Data Request Form

To obtain data from the European Vegetation Archive (EVA), please first make an enquiry to 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 Milan Chytrý (chytry@sci.muni.cz) or another member of the EVA Coordinating Board.

- Applicant's name:

Michael Glaser

- Applicant's institutional address:

Department of Botany and Biodiversity Research
Division of Conservation Biology, Vegetation Ecology and Landscape Ecology
Rennweg 14 Raumnummer 134
1030 Vienna

- Applicant's e-mail:

michael.glaser@univie.ac.at

- Project title:

Past, Present and Future Weeds

- Brief description of aims and methods of the study:

The project goals are:
  ➢ Recreating key processes and analyzing changes in weed species (composition and diversity) within Central Europe in the 20th century.
  ➢ Detection of weed species that have been successful and are just mounting the beginning of their biological invasion. Investigation of their traits.
  ➢ Detection of weed species that have been negatively impacted by global change. Analysis of their traits and explanation of possible extinctions and drastic range reductions.
  ➢ Understanding the way weed species disperse through Central Europe and what impedes dispersal to allow insight and potentially bundle mitigation measures.
  ➢ Modeling future ranges of most invasive weeds.

Initially, the database will be screened for species with range expansions or species that might have been introduced during the study time period (1950-present). All species in the database will be scored into climate change winners/losers and common traits (native/non-native, donor region, ecofunctional traits) will be profiled. Questions of differences in species composition between the countries formerly in Eastern and Western Europe will be answered by reconstructing weed dispersal between these (formerly isolated countries). For those species who stand to gain (lose) the most under global change conditions species distribution models will be implemented. Additionally an attempt will be made to model future arable flora communities. Thus community data is needed. Species occurrence data may be additionally required to close gaps in sample coverag). This will become clear once the database is compiled.

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

Data analysis, interpretation and paper writing in this project will be led by Michael Glaser, currently beginning his PhD at the department. Within the University of Vienna Department of Conservation Biology following persons will lend their expertise:

- Ass. -Prof. Mag. Dr. Franz Essl (Michael Glaser's faculty advisor)
- Univ. -Prof. Dr. Stefan Dullinger (Division Head)
- Mag. Dr. Dietmar Moser

Outside of the University of Vienna (informal) partners are:
- AGES – Austrian Agency of Health and Food Safety
  - Dr. Swen Follak
- UNIBRNO – Masaryk University, Faculty of Science, Department of Botany and Zoology
  - Doc. Dr. Zdeňka Lososová
  - Ing. Jiří Danihelka

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

late 2020 – mid 2021

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

Geographically delimited to Central Europe, i.e.:
- Austria
- Czech Republic
- Slovakia
- Hungary
- Slovenia
- Italy (until 44.067005, 7.7333)
- Liechtenstein
- Switzerland
- Germany

To ensure appropriate sampling density etc. this area might not be used entirely.

- 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?

5000 m, if possible the accuracy should be given for every so that filters can be applied later if needed.

- Vegetation types needed (syntaxa):

All plots recorded within arable land (including field margins, vineyards and orchards).

- Other data selection criteria:

No.

- Envisaged publications:

1-3 publications in international journals that target an audience in ecology, invasion biology, macroecology and/or vegetation science

- 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. unique vegetation types, under-represented geographic areas) or make up more than 10% of the final dataset (5% threshold can be

considered too). These database representatives should be experts in the topic of the project (they do not need to be the custodians or deputy custodians) and they 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.

> Michael Glaser will be the leading author of the planned publications. We will inform the data providers when a major step in the preparation of the concepts of the projects or in data analyses are achieved. Co-authorship will be offered to a representative of each database that will be represented by at least 5% of relevés included in the final analysis (i.e. after stratified selection from the basic data sets) or fewer for databases from vegetation types or regions with general lack of data. Further, persons with significant contribution to data analysis (see above) or providers or analysts of other data (trait data, phylogenetic tree, geographical data) may be invited as co-authors. Following the EVA rules and established practices, we expect co-authorship to be associated with intellectual contribution to the paper, not merely with data provision.

- **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.

> Michael Glaser is not a contributor to the EVA data.
> His application is supported by Zdeňka Lososová, a member of the team of the Czech National Phytosociological Database (EU-CZ-001) at Masaryk University, Brno. This application is supported by Milan Chytrý, a custodian of the database.

We agree with the terms of EVA Data Property and Governance Rules as approved on 26 May 2012 (http://euroveg.org/download/eva-rules.pdf).

Vienna, 10th October 2019

Michael Glaser