



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:

Vitória Barbosa Ferreira

- Applicant's institutional address:

La TeleScop, 500 Rue Jean François Breton, 34090 Montpellier – France

- Applicant's e-mail:

vitoria.barbosa-ferreira@latelescop.fr

- Project title:

Remote Sensing of Invasive Alien Plant Species (Télé-détection des Espèces végétales Exotiques Envahissantes - TEvEE)

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

core EVA data and ReSurveyEurope data

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

Invasive alien species are widely recognised as one of the major drivers of biodiversity loss at the global scale (Roy et al., 2023). As a result, many public and private actors are engaged to understand, monitor, and control the spread of the most threatening invasive species. The TEvEE project aims to detect the invasive alien species *Acacia dealbata* and *Carpobrotus edulis* in the mediterranean French regions Corse and Sud-Provence-Alpes-Côte-d'Azur using remote sensing data (Sentinel-2 and Pléiades-NEO). The project also counts with several geolocalised points and few polygons of the targetted species. We aim to train state-of-art machine learning models to detect de presence/absence of these two species. The access to EVA database would contribute on one hand to have access to plots were this species are not sampled (non-presence) and, on another hand, to additional vegetation-plots (preferably polygons) where these species were sampled (presence).

Roy, H.E., A. Pauchard, P. Stoett, Renard Truong, 2023. Thematic Assessment Report on Invasive Alien Species and their Control of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, IPBES (IPBES). IPBES secretariat, Bonn, Germany.

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

No one else for data editing.

Concerning the analysis: Tom BRUNELLE and Julie CHAURAND are involved in TEvEE project (employees of La TeleScop), as Angélique DEGIOVANNI (national botanical



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conservatory of corsica) and Madeleine FREUDENREICH (Mediterranean national botanical conservatory).

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

First semester of 2027 (project started in March 2026). A final report will be shared with EVA contributors (notably with Olivier ARGAGNON et Ilona KNOLLOVÁ)

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

Corse and Sud-Provence-Alpes-Côte-d'Azur (any plots, not only the ones containing the targeted species)

Specifically, we target the following bounding boxes:

AOI 1:

[6.7418577670575299,43.4418014885499986, 6.9125911290748903,43.5279146645656994]

AOI 2 :

[6.11830002882374, 42.9966417353198, 6.63163219111407, 43.1682043498127]

AOI 3 :

[8.7053231267849505,42.5539756952181989, 8.9412219109157505, 42.6477429260476981]

AOI 4 :

[8.5851756738294096,41.8713945502139993, 8.6217744638580296,41.9133888034888997]

- 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 1 to 2m accuracy if available.

- Vegetation types needed (syntaxa):

Acacia dealbata

Carpobrotus edulis

Any plot intersecting the areas of interest is welcome (they will be used as validation of presence and/or absence of the targeted species)

- Other data selection criteria:

Any plots intersecting the region; sampling date; what species are in the plot; species density, if available

- Envisaged publications:

Preliminary title:

Mapping invasive alien species *Acacia dealbata* and *Carpobrotus edulis* using Sentinel-2 and Pléiades Neo Imagery

- **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.

In case of a publication is accepted we would follow EVA's data sharing guidelines.

- **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.

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: 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.

This is a prospective study. A technical report will be produced and shared with the French Biodiversity Office (Office Français de la Biodiversité, OFB), the National Botanical Conservatories (Conservatoires Botaniques Nationaux, CBN) and EVA contributors at the end of the project. Contributors of EVA data will be acknowledged in this report.

Should this study lead to a scientific publication, co-authorship will be offered to EVA contributors whose datasets represent a substantial proportion of the final dataset used in the analyses.

- **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.

Custodian: Olivier ARGAGNON

- 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.

Montpellier, 08/06/2026

Vitória Barbosa Ferreira