



## 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 Ilona or another member of the EVA Coordinating Board.

- Applicant's name:

Silvia Giulio

- Applicant's institutional address:

Roma Tre University, Department of Science, Viale Marconi 446, 00146 Rome, Italy

- Applicant's e-mail:

silvia.giulio@uniroma3.it

- Project title:

Modelling *Euphorbia paralias* realised niche in native and invaded ranges

- Brief description of aims and methods of the study:

*Euphorbia paralias* is a typical species of European coastal dunes, but it is also an invasive alien plant in the dunes of southern Australia. Here, it is thought to threaten the survival of endangered native coastal plants and to reduce the availability of nesting habitats for shorebirds, and, worryingly, it is progressively working its way north. In this project we will ask what are the factors making this species so invasive in Australia, if the species has encountered new suitable conditions that were not available along the coasts of the Old Continent, or if its realised environmental niche has shifted in moving from the native to the invaded range. Based on the answers to these questions we could potentially predict the extent of further invasion. Research methods will include multivariate analysis of the species niche (principal component analysis) and general linear modelling of the species distribution, based on multiple sets of data merged in a geographic information system. We have already acquired data on the distribution of the species in Australia, and through EVA we would like to obtain data on the presence and absence of this species in its native range (Europe).

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

Tommaso Jucker (University of Western Australia), Marta Carboni, Alicia T. R. Acosta (Roma Tre University), Corrado Marcenò (University of the Basque Country)

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

One year

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

All Europe



## Data Request Form

- 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 accuracy 1000 metres

- Vegetation types needed (syntaxa):

-

- Other data selection criteria:

All plots with *Euphorbia paralias*, and all plots without this plant that have a maximum size 1x1Km, are at a maximum distance of 2 Kilometres from the sea coastline, with a minimum accuracy of 1000 metres, including those with precision not available (excluding all plots where *Euphorbia* is identified only at the genus level - e.g. where there is not *Euphorbia paralias* but there is *Euphorbia* sp., or *Euphorbia* spp. - or where there are unidentified *Euphorbiaceae*).

- Envisaged publications:

1

- 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. 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.

We will offer co-authorship to custodians that have made up more than 5% of the plots with *Euphorbia paralias* in the final dataset and give intellectual contribution to the paper



## Data Request Form

- 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.

Dr. Corrado Marcenò (custodian of EU-00–016 Mediterranean Ammophiletea database and deputy custodian of EU-00–029 High Mediterranean Mountains Database)

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 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.

Roma, July 29, 2019

Silvia Giulio