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:

Bernd Lenzner

- Applicant's institutional address:

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- Applicant's e-mail:

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- Project title:

Increasing similarity in native and non-native functional diversity along altitudinal gradients on islands

- Brief description of aims and methods of the study:

Aims
This project aims to assess differences in the trait composition and realized functional trait space of the native and non-native plant community along elevational gradients on islands. We expect an increase in realized community trait space similarity with increasing environmental stress towards higher elevations (H1).
Additionally the extent of the realized trait space of the communities should either show a monotonous decline with increasing altitude (in humid climates) or follow a mid-peak pattern with elevation (in (semi-)arid climates) (H2).

Methods
We are going to use functional richness (FRic) and functional dispersion (FDis) to calculate the functional diversity of the native and non-native community. FRic will provide an estimate of the realized niche space for each community. Subsequently we can use FRic to estimate the shared trait space between the two communities, thus, getting an estimate of potential competitive interaction (Laliberte & Legendre, 2010).
FDis provide estimates of trait variability of the community. This way it is possible to examine the internal structure of the multidimensional space occupied. Eventually this will lead to a better understanding of the community structure and reveal if the amount of shared trait space drives either community towards a clumped trait composition or not (Laliberte & Legendre, 2010).

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

No

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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):

All islands covered (continental and oceanic origin)

- Vegetation types needed (syntaxa):

Woody species dominated vegetation sites (min 25% shrub/tree cover)

- Other data selection criteria:

  - Coverage of both native and non-native species
  - No sites located in artificial or highly disturbed landscapes (plantations, road/village margins, etc.)

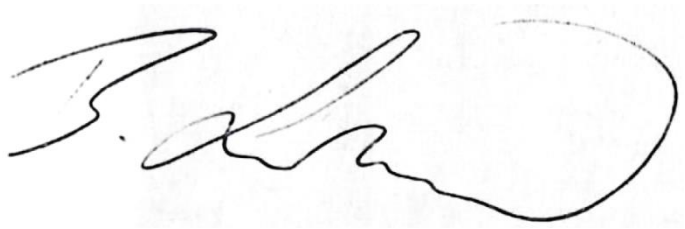
- Envisaged publications:

Research manuscript for a relevant peer-review journal in the field.

- Specification of the co-authorship arrangements in publications based on the requested data (e.g. the extent of possible involvement of the original data providers, or of EVA data managers if extra work for this project is needed from them):

All data contributors are invited to become co-author on the resulting publication. Order of appearance for data providers will be in alphabetical order.

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).



Vienna, 03.03.2016

Bernd Lenzner

"This data request is supported by Wolfgang Willner, the custodian of the Austrian Vegetation Database"