

Ecography

ECOG-00188

Ulrich, W. and Fattorini, S. 2013. Longitudinal gradients in the phylogenetic community structure of European Tenebrionidae (Coleoptera) do not coincide with the major routes of postglacial colonization. – *Ecography* 36: xxx–xxx.

Supplementary material

Download: Appendix 1.xls

Appendix 3.xls

Appendix 2

Data sources

We considered the faunal composition of 1476 native species and subspecies of Tenebrionidae from 63 European countries and larger islands as given in Fattorini and Ulrich (2012a, b), with a few changes to take into account new data:

- *Nalassus curticolis* (previously considered endemic to Bosnia) was established to be synonymous with *N. dryadophilous* (Nabozhenko 2011). Thus, *N. curticolis* has been deleted and the *N. curticolis* record for Bosnia assigned to *N. dryadophilus*.

- Corsican populations previously assigned to *Opatrum dahli* have been proved to be a new species, *O. malgorzatae*, endemic to Corsica (Leo et al. 2011). Thus, previous record of *O. dahli* from Corsica has been removed, and *O. dahli* is now considered endemic to Sardinia.

- *Phylan intermedius*, previously considered as a synonym of *P. abbreviatus*, has been resurrected (Ferrer, 2011). This species has been therefore added.

- *Melanimon amalitae*, described from Spain and Portugal (Ferrer & Castro Tovar, 2010) has been added.

- *Probaticus lacertosus*, cited from Naxos, has been added as a new record to the Cyclades (Kaltsas et al., 2012).

- *Dendarus peslieri*, previously confounded with *D. coelatus* (Soldati 2012), has been introduced and the distribution of the two species updated accordingly.

Also we have corrected some mistakes occurred during the database compilation. In particular:

- we have deleted the duplicated entries of: *Asida anachoreta*, *A. dryas* and *A. solieri caroli*, *Pseudoseriscius griseovestis* and *Nalassus picinus*

- we added *G. costatum rugosum* to Cyprus

- we added *Lagria rubida* to Portugal

- we added *Corticeus versipellis* to Germany

- we added *Dendarus ananensis* to the Cyclades

- we have deleted *Dendarus jonicus*, as it is restricted to the Ionian Islands

- we corrected the taxonomic status and distribution of *Tentyria ramburi*, deleting *T. laevicollis*, which is considered a synonym of *T. ramburi*

- we corrected the taxonomic status and distribution of *Pseudoseriscius helvolus*

As in Fattorini and Ulrich (2012a, b), we finally excluded 14 countries and islands due to incomplete sampling and used distribution data of 1373 darkling beetle species and subspecies in 49 European countries and major islands.

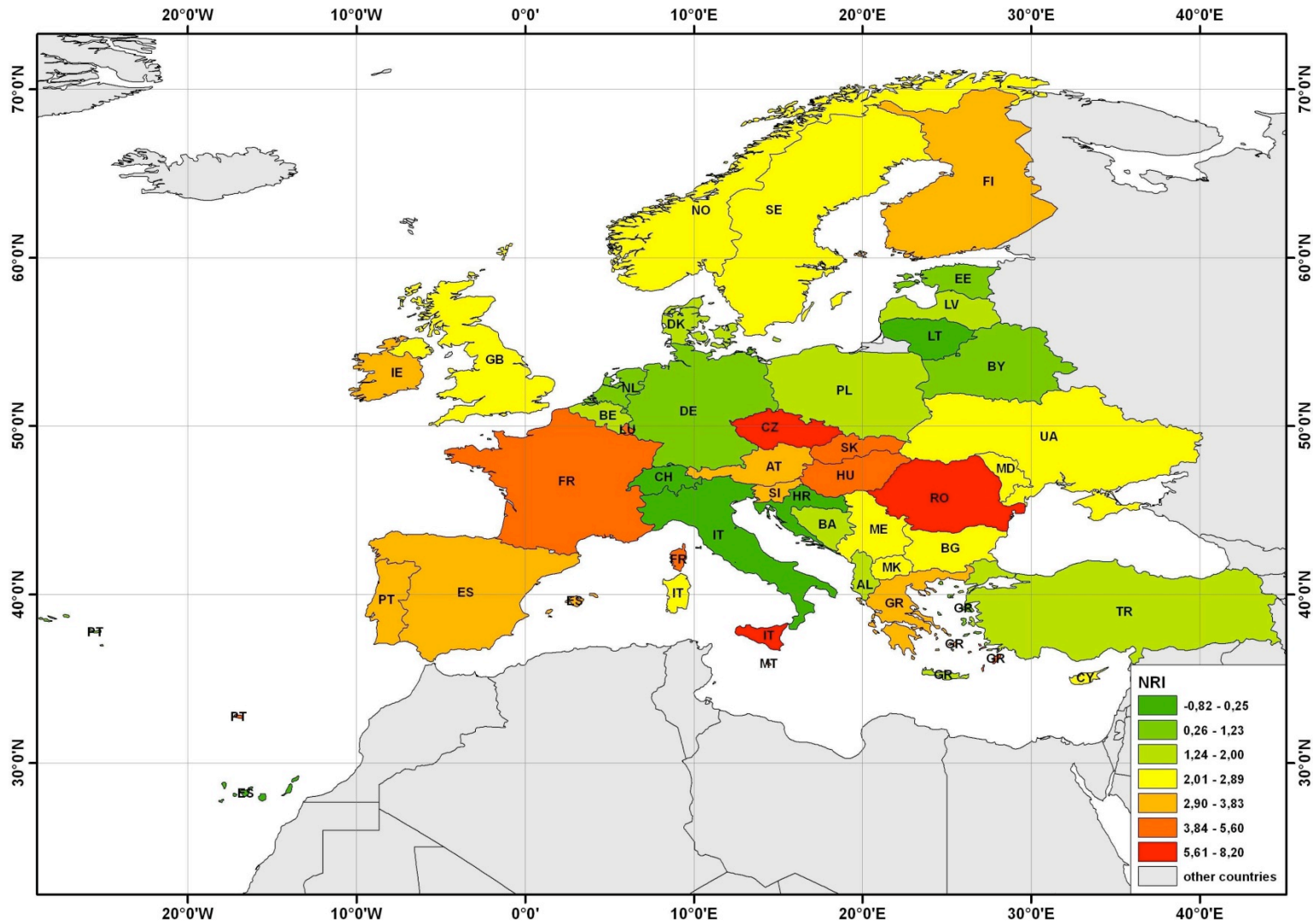
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Appendix 4

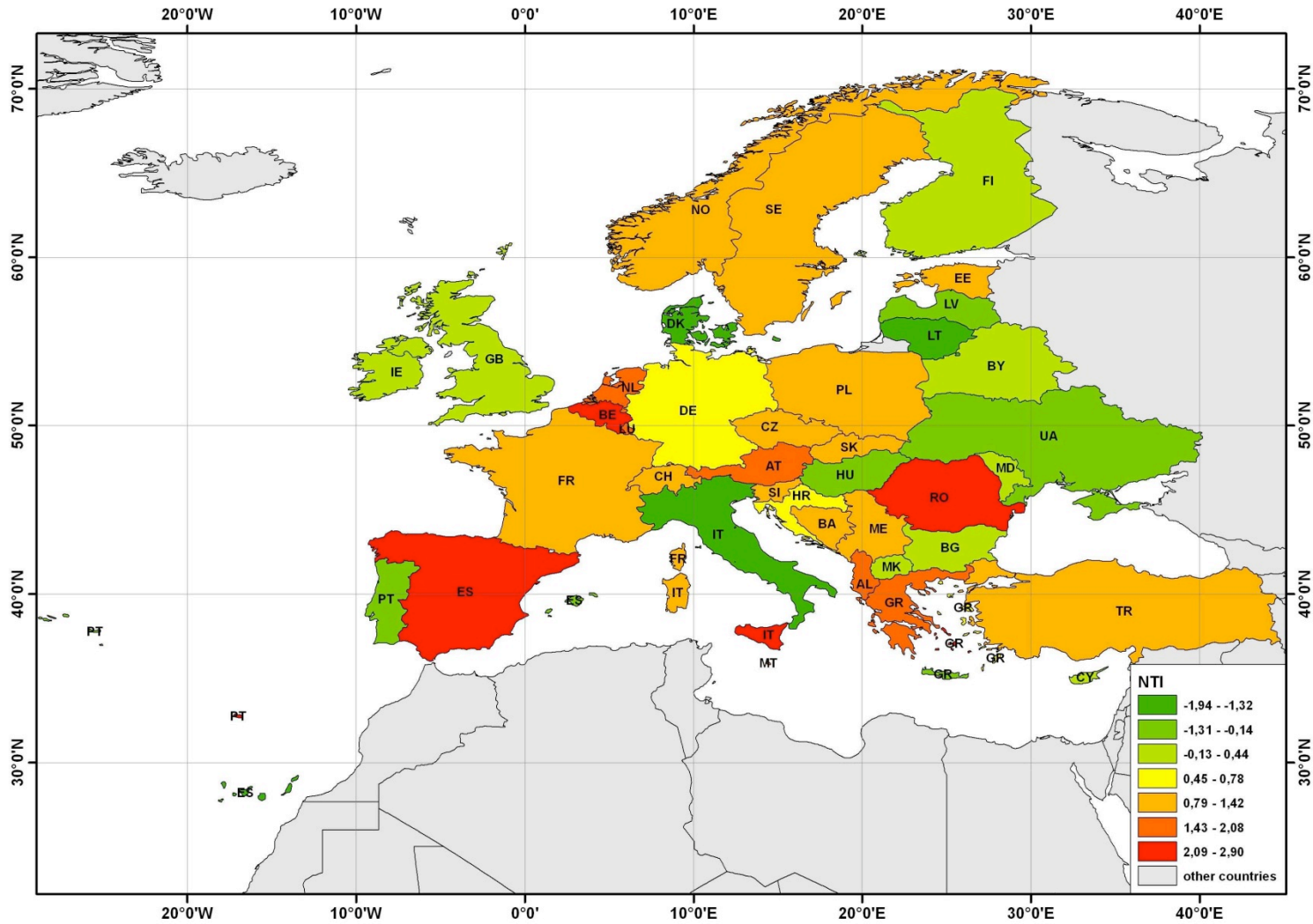
Longitudinal gradients in the phylogenetic community structure of European Tenebrionidae (Coleoptera) do not coincide with the major routes of postglacial colonization

A: Distribution of NRI scores among European countries and major islands



Longitudinal gradients in the phylogenetic community structure of European Tenebrionidae (Coleoptera) do not coincide with the major routes of postglacial colonization

B: Distribution of NTI scores among European countries and major islands



Longitudinal gradients in the phylogenetic community structure of European Tenebrionidae (Coleoptera) do not coincide with the major routes of postglacial colonization

C: Distribution of χ^2 scores of the logistic phylogenetic eigenvector regression among European countries and major islands

