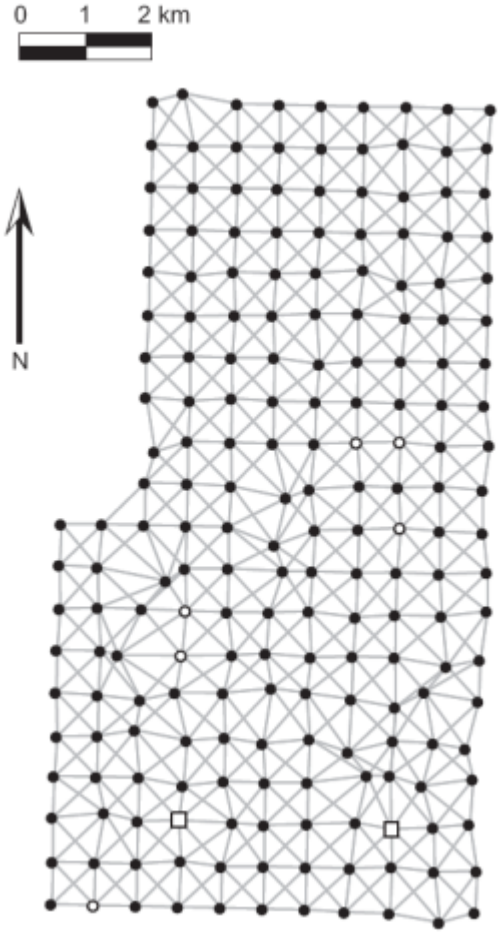
Carabid beetles from Canada

Source of data

Data were collected by Colin Bergeron (Bergeron et al. 2011, 2012). Dataset has been published in Dryad data repository as supplement to Blanchet et al. (2014), and is also included in the R library `ordiconsensus`.

Description of the dataset

Data about species composition of carabid beetles and surrounding vegetation structure. In the summer of 2002, 194 sites distributed on a near-regular grid were established in an area of 70 km^2 (Fig. 1). Each site was positioned in never-harvested mature forests, a minimum of 40 m away from any anthropogenic disturbance or major water bodies. On average, sites were 700 m apart, with a minimum distance between any two sites of 260 m. (Description according to Blanchet et al. 2013.)



Locality

EMEND study site located in northwestern Alberta, Canada (56°46′13″N, 118°22′28″W) on the southeast slopes of the Clear Hills formation. The site is dominated by boreal mixedwood forest. (Description according to Blanchet et al. 2013.)

Data for download

- Carabid beetles in Canada.xlsx - Excel file with all data.

Script for direct import of data to R

```
beetles <- read.delim
('https://raw.githubusercontent.com/zdealveindy/anadat-r/master/data/beetles.txt',
row.names = 1)
beetles.expl <- read.delim
('https://raw.githubusercontent.com/zdealveindy/anadat-r/master/data/beetle_expl.tx
t', row.names = 1)
```

Alternatively, install the library `ordiconsensus` from R-Forge.org website, written by F.G.Blanchet. Data can be found in `data (beetle)` and `data (beetle.expl)`.

References

- Bergeron J.A.C., Spence J.R. & Volney W.J.A. (2011): Landscape patterns of species-level associations between ground-beetles (Coleoptera: Carabidae) and overstory trees in boreal forests of western Canada (Coleoptera: Carabidae). In: Erwin, T.L. (Ed.), *Proceedings of a Symposium honoring the careers of Ross and Joyce Bell and their contributions to scientific work, Burlington, VT, 12-15 June 2010*. *ZooKeys* 147: 577–600.
- Bergeron J.A.C., Blanchet F.G., Spence J.R. & Volney W.J.A. (2012): Ecosystem classification and inventory maps as surrogates for ground beetle assemblages in boreal forest. *Journal of Plant Ecology* 5: 97–108.
- Blanchet, F.G., Bergeron J.A.C., Spence J.R. & He F.(2013): Landscape effects of disturbance, habitat heterogeneity and spatial autocorrelation for a ground beetle (Carabidae) assemblage in mature boreal forest. *Ecography* 36: 636–647.
- Blanchet F.G., Legendre P., Bergeron J.A.C., Spence J.R. & He F. (2014): Consensus RDA across dissimilarity coefficients for canonical ordination of community composition data. *Ecological Monographs* 84: 491-511.

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