

Ecography

**ECOG-00030**

Brehm, G., Strutzenberger, P. and Fiedler, K. 2013. Phylogenetic diversity of geometrid moths decreases with elevation in the tropical Andes. – *Ecography* 36: xxx–xxx.

**Supplementary material**

Download moth data at:

<http://arxiv.org/abs/1507.00913>

## Appendix 1

Appendix Figure 1: Kimura 2-Parameter tree with 3,382 specimens.

(separate pdf file: Appendix-Fig1-K2P-tree\_3382specimens.pdf)

Appendix Figure 2: Best maximum likelihood tree with 1,445 specimens (=1445 species). Terminal branch lengths (TBLs) measured using this tree were used for analyses of assemblage-level phylogenies. red: Ennominae, green: Geometrinae, black: Oenochrominae/Desmobathrinae, blue: Sterrhinae, pink: Larentiinae

(separate pdf file: Appendix-Fig2-ML-tree\_1445specimens.pdf)

Tree also attached in Newick Format: Appendix\_RAxML\_result.ngeoall.RUN.52

Appendix Table 1. List of 32 sampling sites. Included are data on elevation, forest type, numbers of observed and interpolated/extrapolated Geometridae species, nearest-taxon index (NTI with p-values), rarefied NTI (with p-values), average TBLs of interpolated/extrapolated species numbers, subfamily proportions of Ennominae, Geometrinae, Larentiinae, Sterrhinae, and rarefied number of genera per site (level: 61 species). \*Site at 3100 m not included in analysis. \*\* Habitat: if not indicated otherwise, undisturbed rain forest.

(separate Excel document: Appendix-Tab1-neu.xls)

Appendix Table 2

List of all 1,445 barcode-delimited Geometridae species, with information on sites and dates of collection, systematic assignment, GenBank number and ML terminal branch lengths. Pink: specimens from 1,445 specimen tree. Light ochre: other specimens with barcode data. White: interpolated/extrapolated data.

**(separate Excel document: Appendix-Tab2-neu.xls)**

Appendix Table 3: Complete list of 3,382 specimens with associated GenBank numbers.

**(separate Excel document: Appendix-Tab3-neu.xls)**