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# ***Supplementary Material:***

## **The Effect of Size Fraction in Analyses of Benthic Foraminiferal Assemblages: A Case Study Comparing Assemblages from the >125 and >150 $\mu\text{m}$ Size Fractions**

### **1 METRIC MULTIDIMENSIONAL SCALING QUALITY ASSESSMENT**

**Table S1.** Summary of the eigenvalues for a metric multidimensional scaling of benthic foraminiferal assemblages from the Pefka E section. Values are given for the ordination solutions of the >125  $\mu\text{m}$  and >150  $\mu\text{m}$  fractions separately, and for the combined ordination of both size fractions.

	>125 $\mu\text{m}$ fraction	>150 $\mu\text{m}$ fraction	Combined data
Minimum	−0.245	−0.225	−0.481
1 <sup>st</sup> quartile	−0.030	−0.027	−0.038
Median	−0.004	−0.004	−0.014
Mean	0.088	0.082	0.089
3 <sup>rd</sup> quartile	0.056	0.044	0.036
Maximum	3.487	2.779	6.654

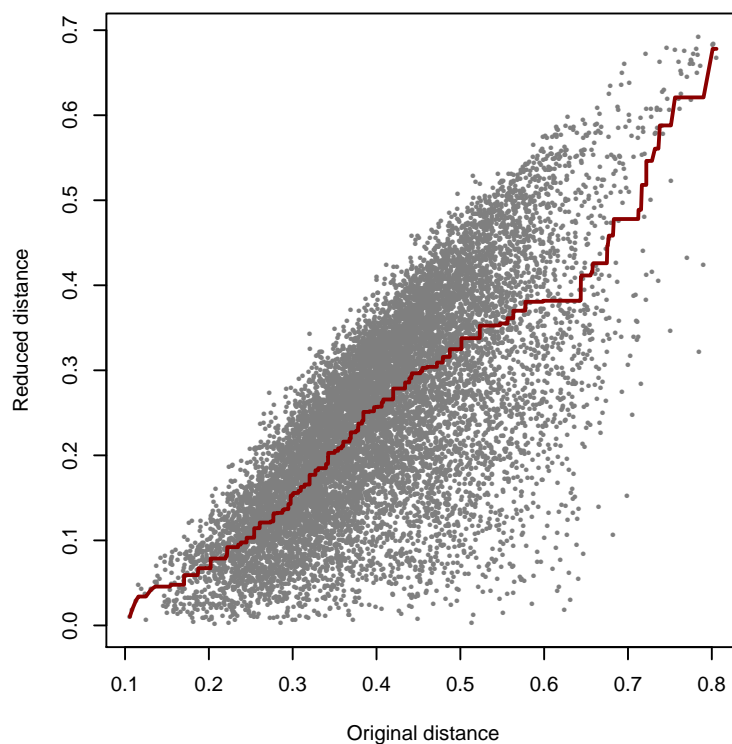


Figure S1: Shepard plot for the metric multidimensional scaling of the  $>125\ \mu\text{m}$  size fraction of benthic foraminiferal assemblages from the Pefka E section.

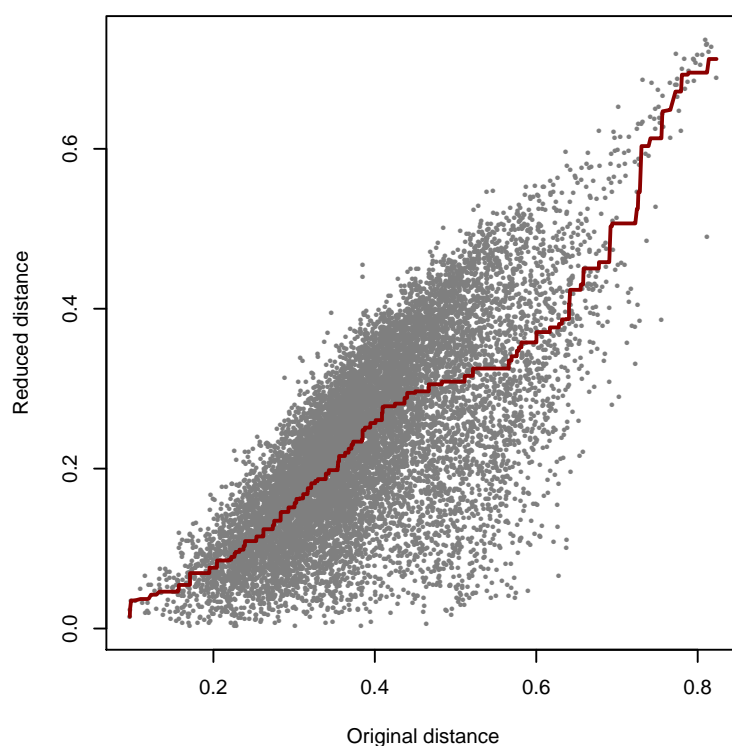


Figure S2: Shepard plot for the metric multidimensional scaling of the  $>150\ \mu\text{m}$  size fraction of benthic foraminiferal assemblages from the Pefka E section.

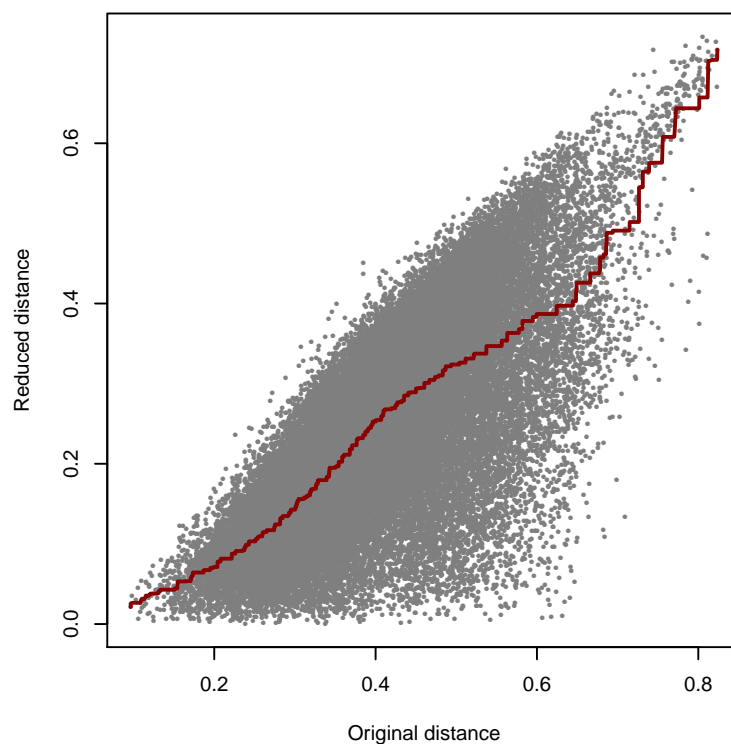


Figure S3: Shepard plot for the metric multidimensional scaling of the combined  $>125\ \mu\text{m}$  and  $>150\ \mu\text{m}$  size fractions of benthic foraminiferal assemblages from the Pefka E section.

## 2 SAMPLE RAREFACTIONING

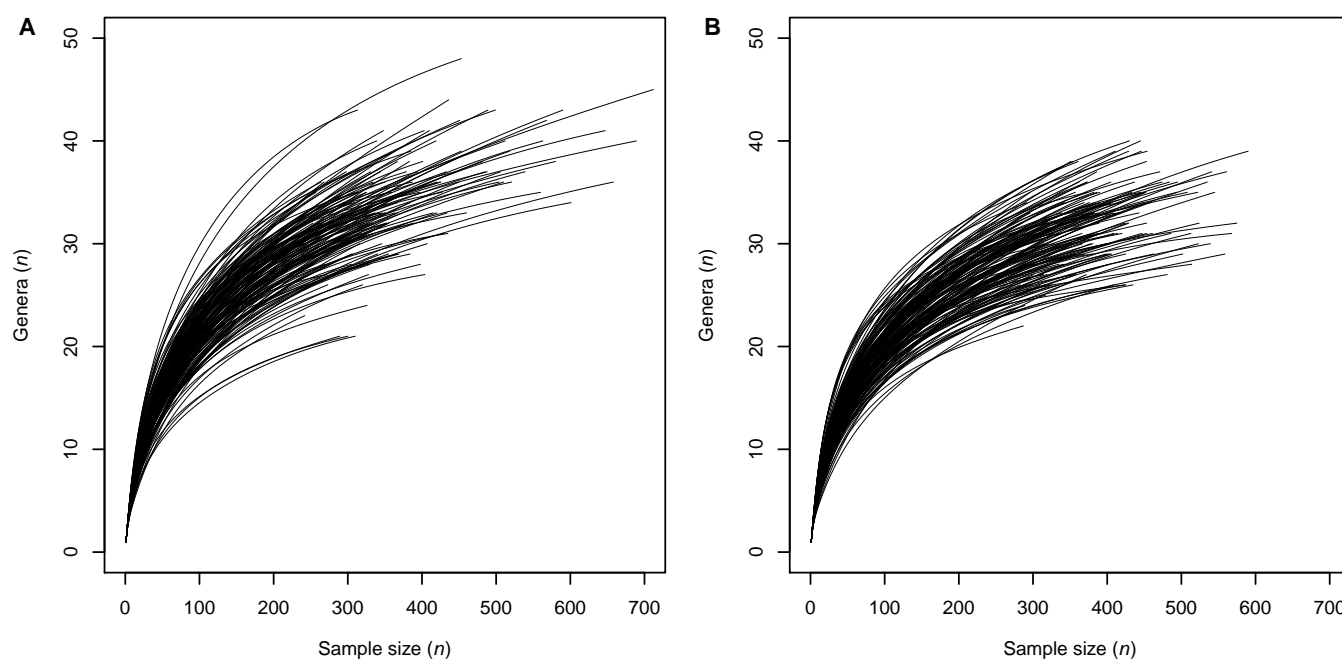


Figure S4: Rarefaction curves of the  $>125\ \mu\text{m}$  (A) and  $>150\ \mu\text{m}$  (B) size fractions of benthic foraminiferal assemblages from the Pefka E section. The consistent shape of curves between both samples implies that observed differences in biodiversity do not result from undersampling of either size fraction.

### 3 ABUNDANCE CURVES

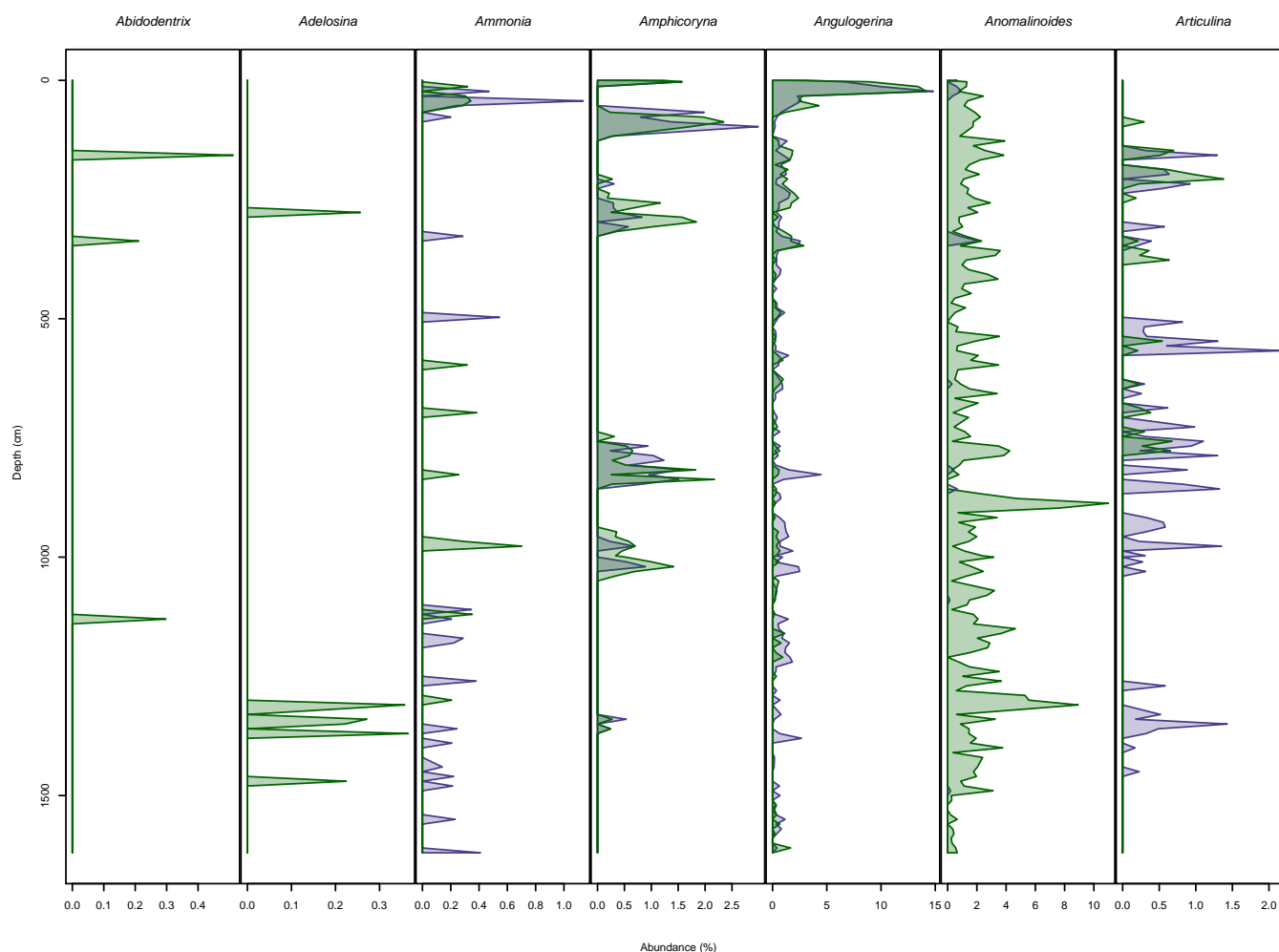


Figure S5: Relative abundances of genera of benthic Foraminifera from the Pefka E section. The abundances within the  $>125\ \mu\text{m}$  fraction (purple) and the  $>150\ \mu\text{m}$  fraction (green) are plotted together in the same graph.

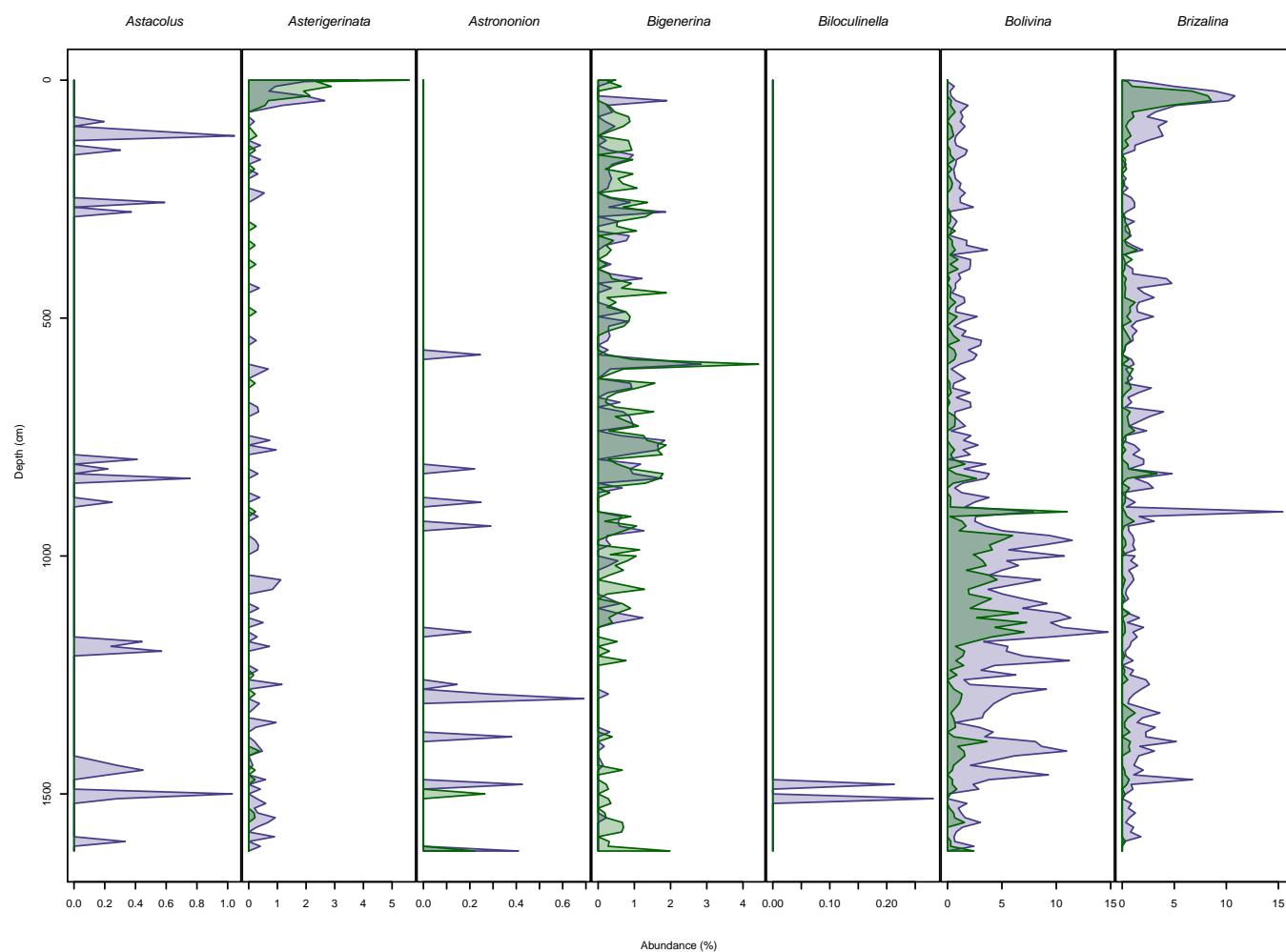


Figure S6: Relative abundances of genera of benthic Foraminifera from the Pefka E section. The abundances within the  $>125\ \mu\text{m}$  fraction (purple) and the  $>150\ \mu\text{m}$  fraction (green) are plotted together in the same graph.

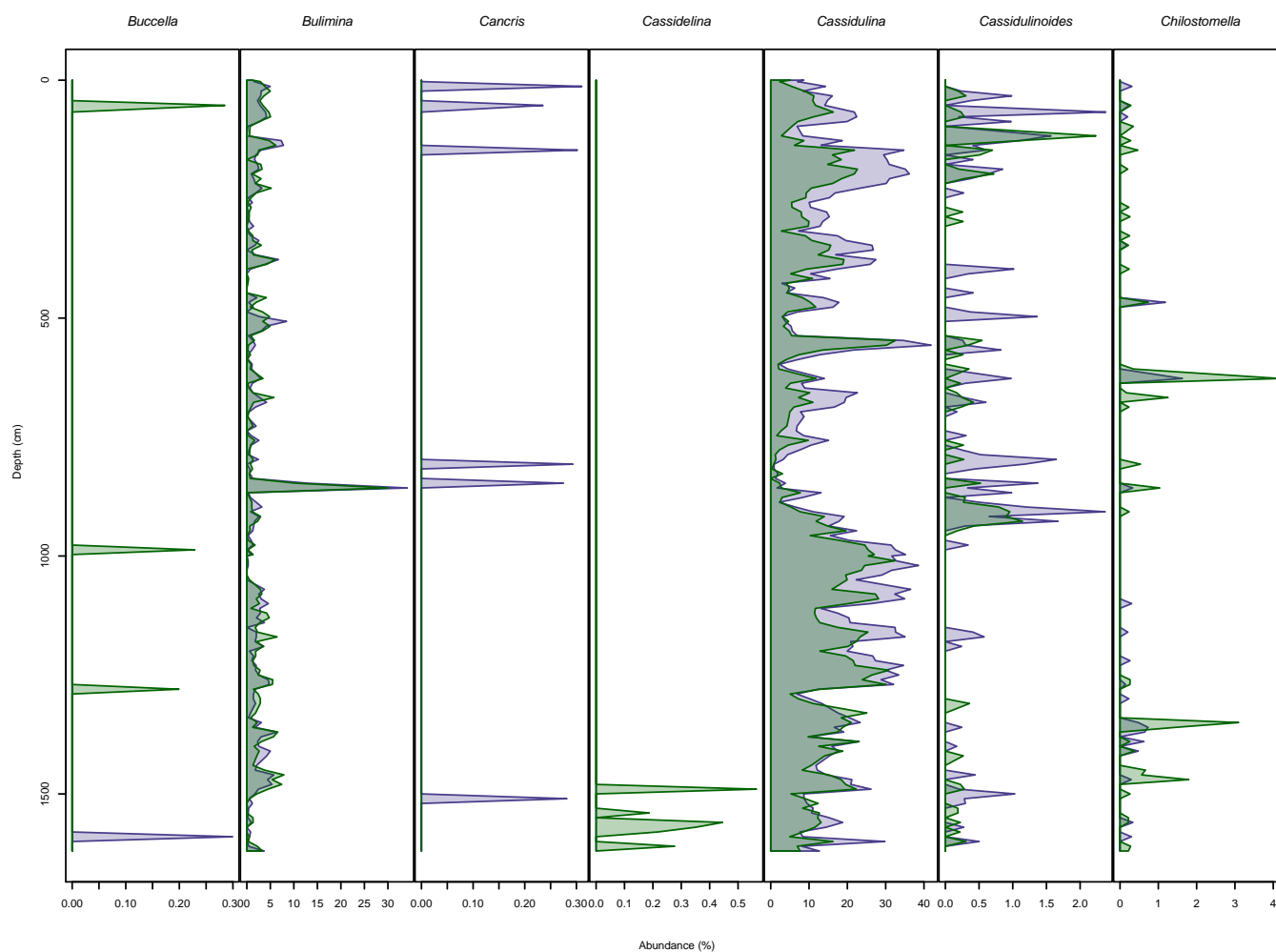


Figure S7: Relative abundances of genera of benthic Foraminifera from the Pefka E section. The abundances within the  $>125\ \mu\text{m}$  fraction (purple) and the  $>150\ \mu\text{m}$  fraction (green) are plotted together in the same graph.

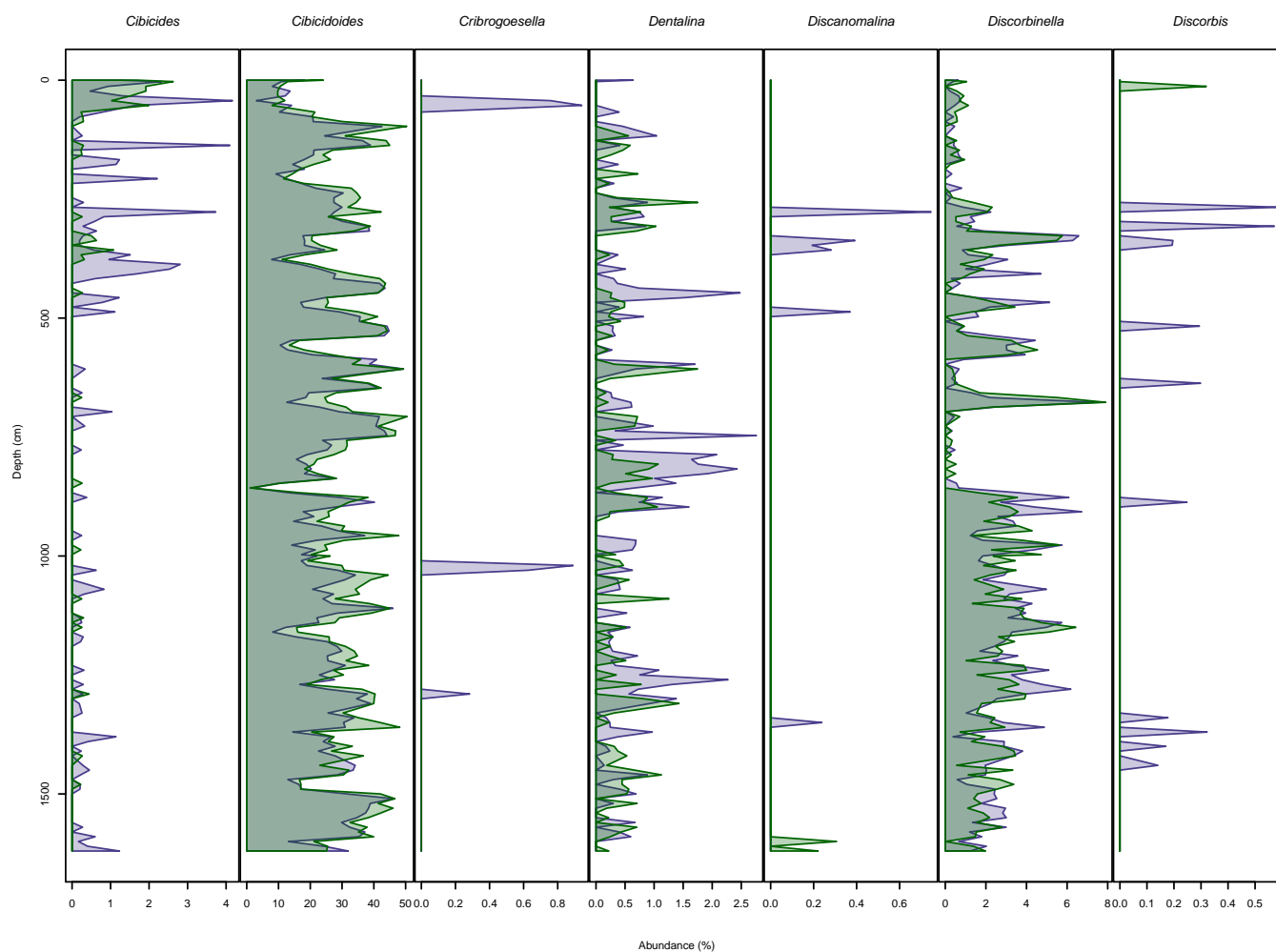


Figure S8: Relative abundances of genera of benthic Foraminifera from the Pefka E section. The abundances within the  $>125\ \mu\text{m}$  fraction (purple) and the  $>150\ \mu\text{m}$  fraction (green) are plotted together in the same graph.

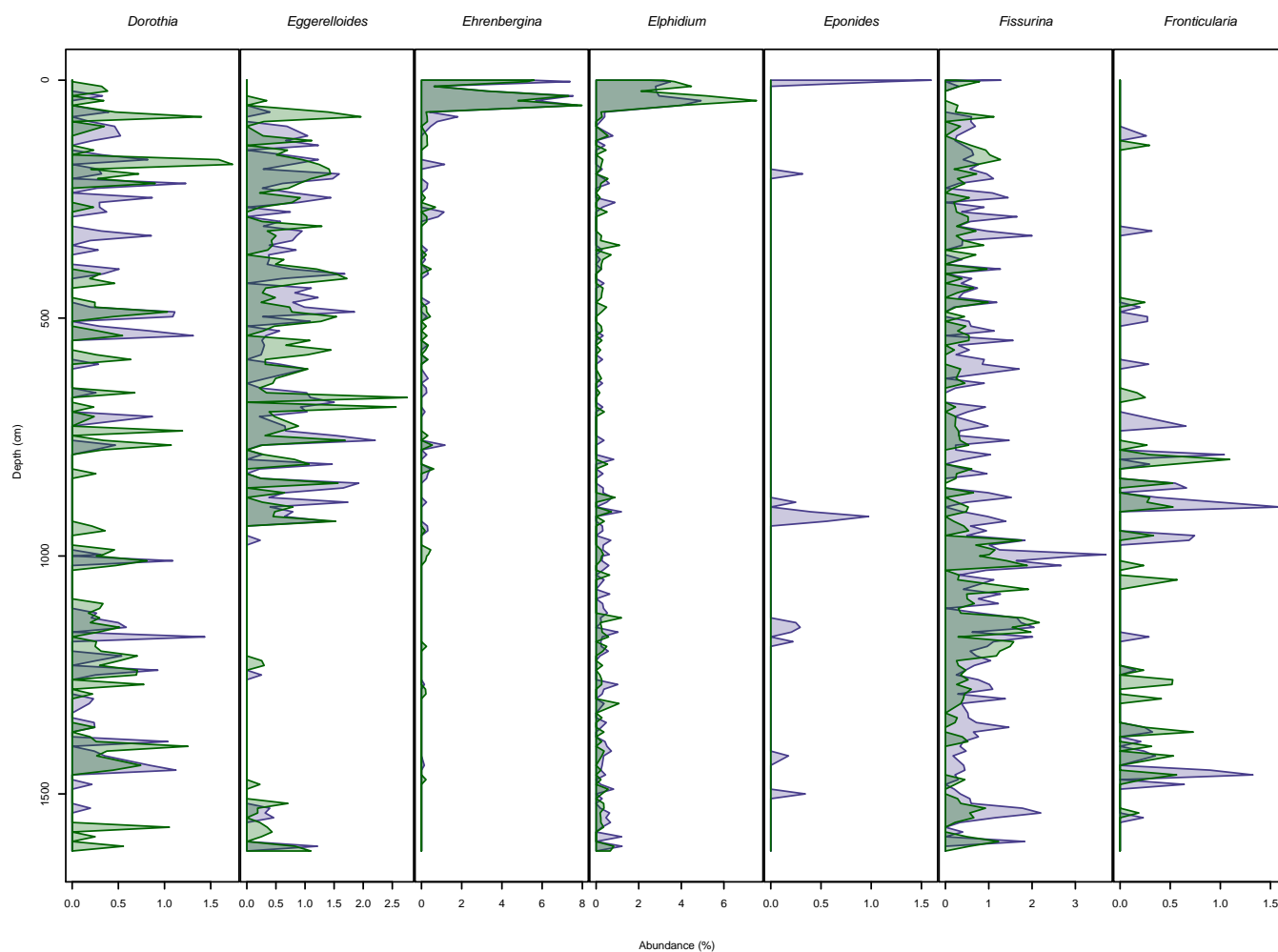


Figure S9: Relative abundances of genera of benthic Foraminifera from the Pefka E section. The abundances within the >125 µm fraction (purple) and the >150 µm fraction (green) are plotted together in the same graph.

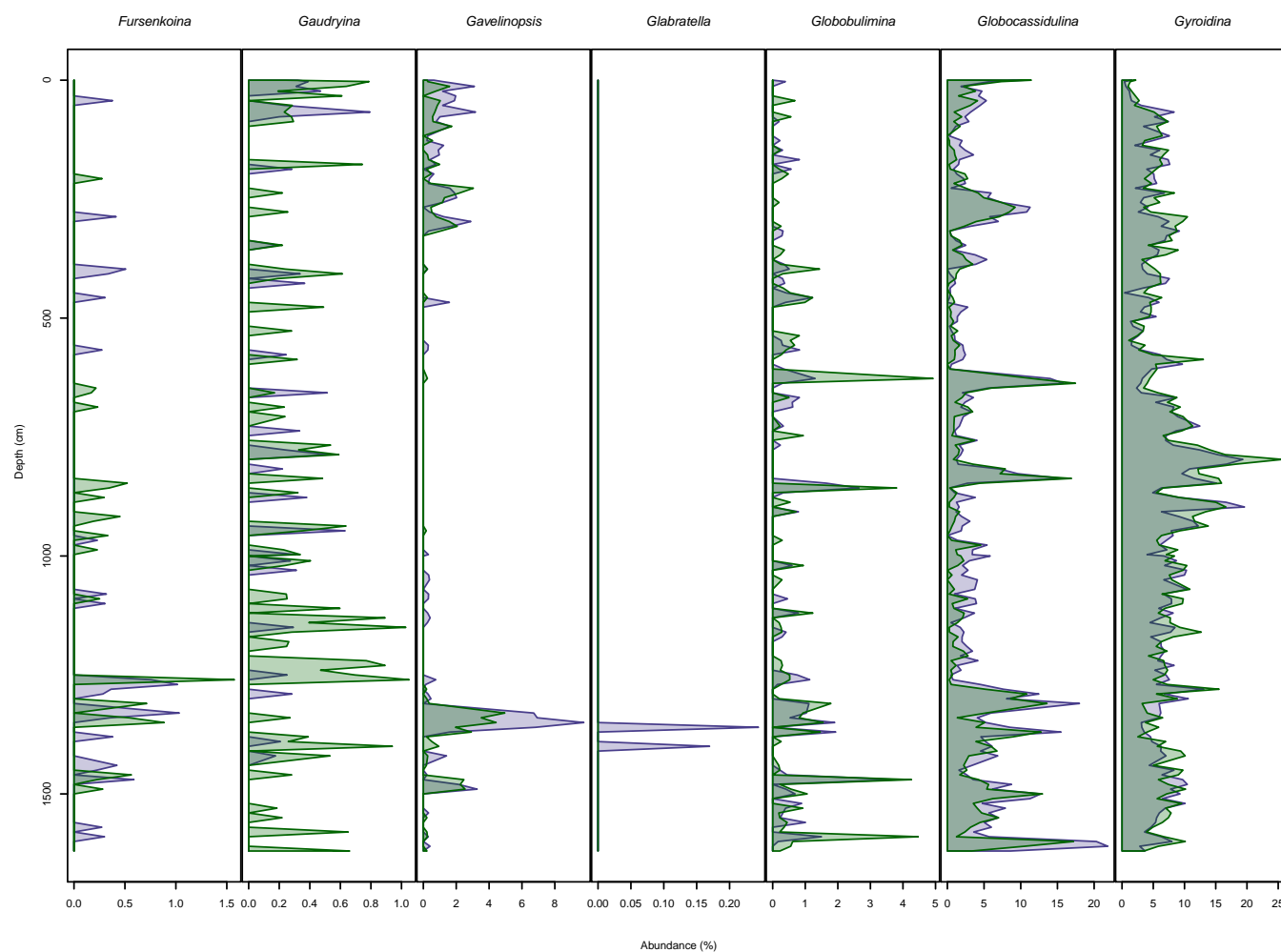


Figure S10: Relative abundances of genera of benthic Foraminifera from the Pefka E section. The abundances within the >125 µm fraction (purple) and the >150 µm fraction (green) are plotted together in the same graph.

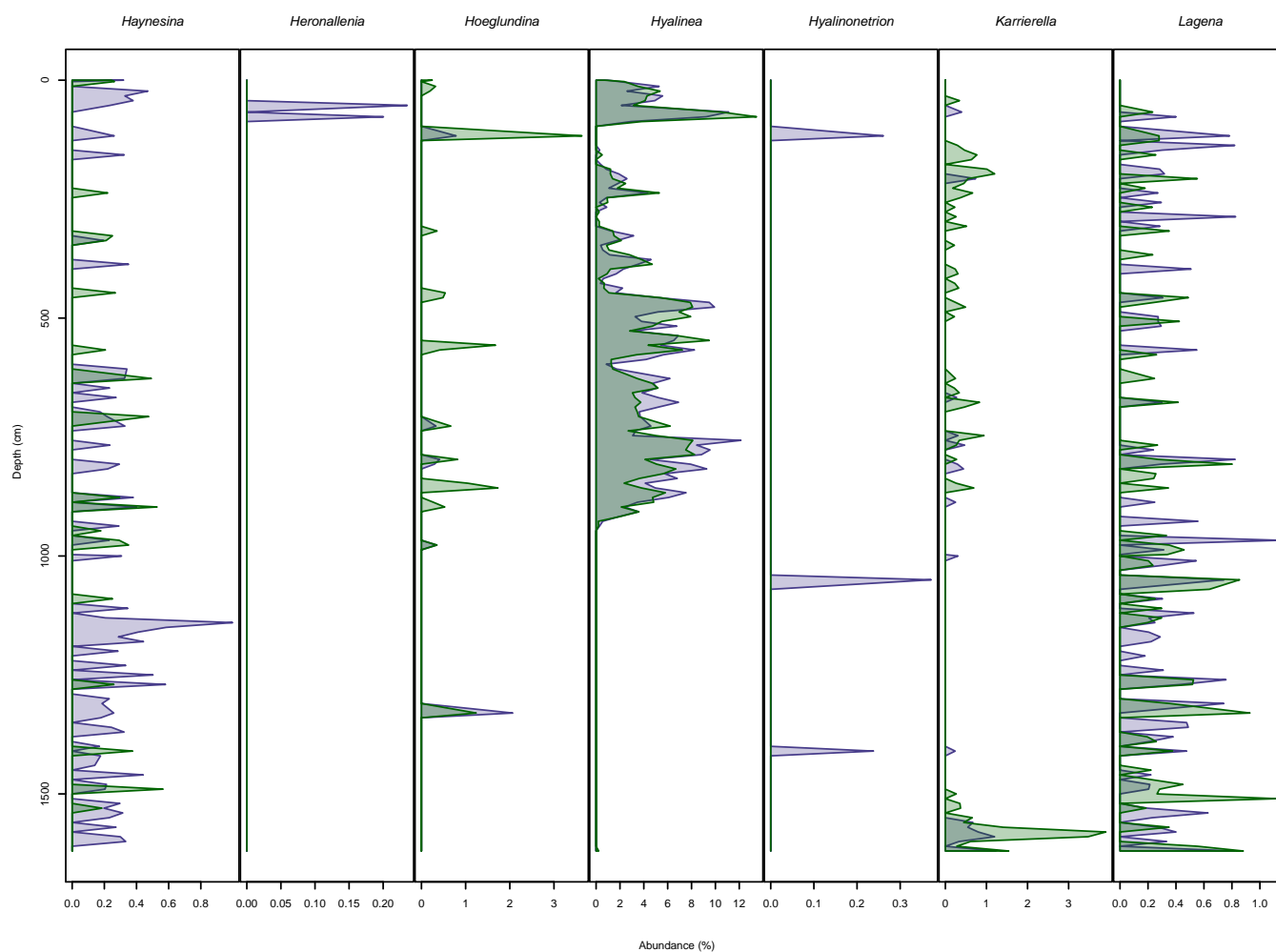


Figure S11: Relative abundances of genera of benthic Foraminifera from the Pefka E section. The abundances within the >125 µm fraction (purple) and the >150 µm fraction (green) are plotted together in the same graph.

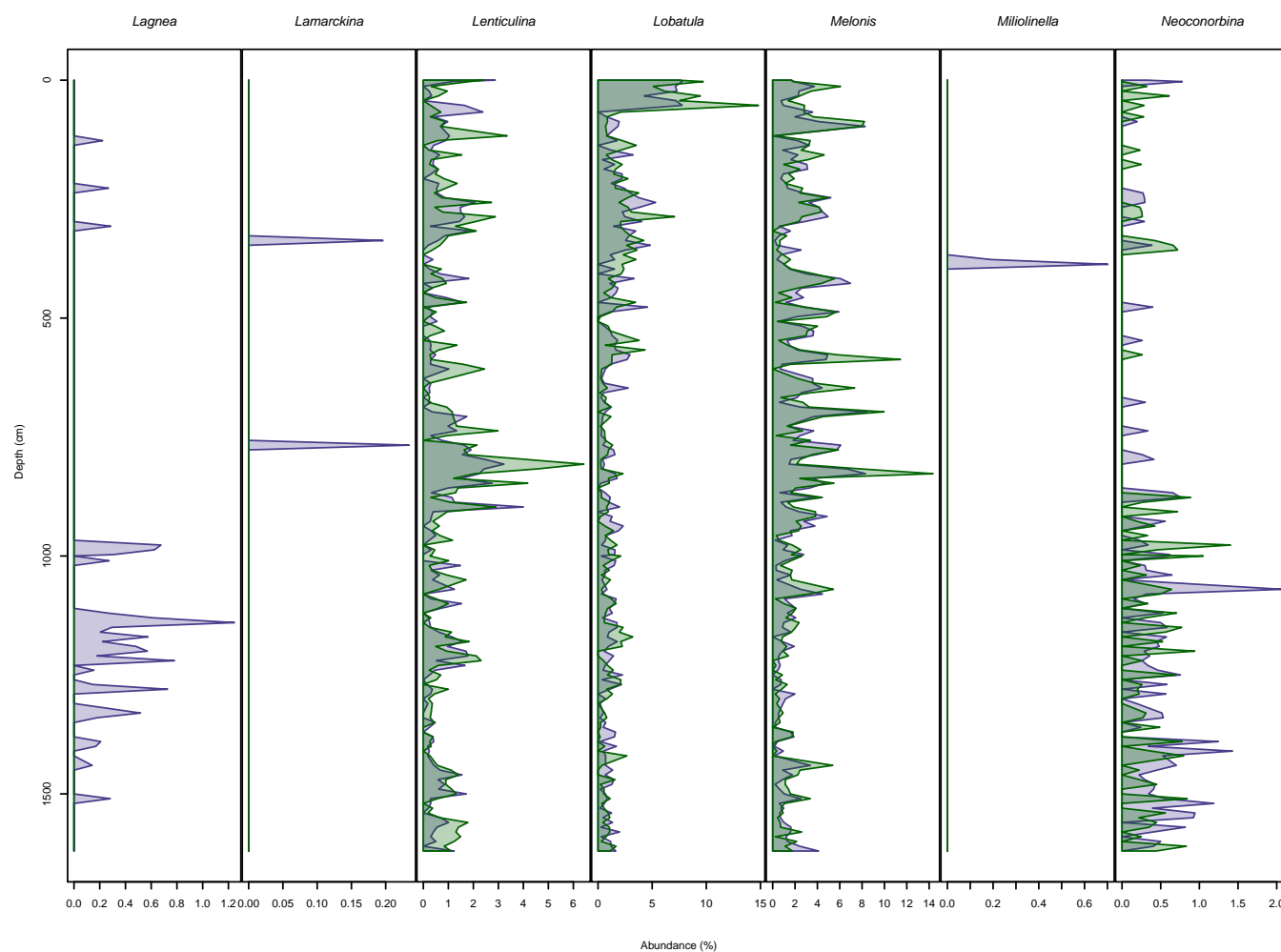


Figure S12: Relative abundances of genera of benthic Foraminifera from the Pefka E section. The abundances within the >125 µm fraction (purple) and the >150 µm fraction (green) are plotted together in the same graph.

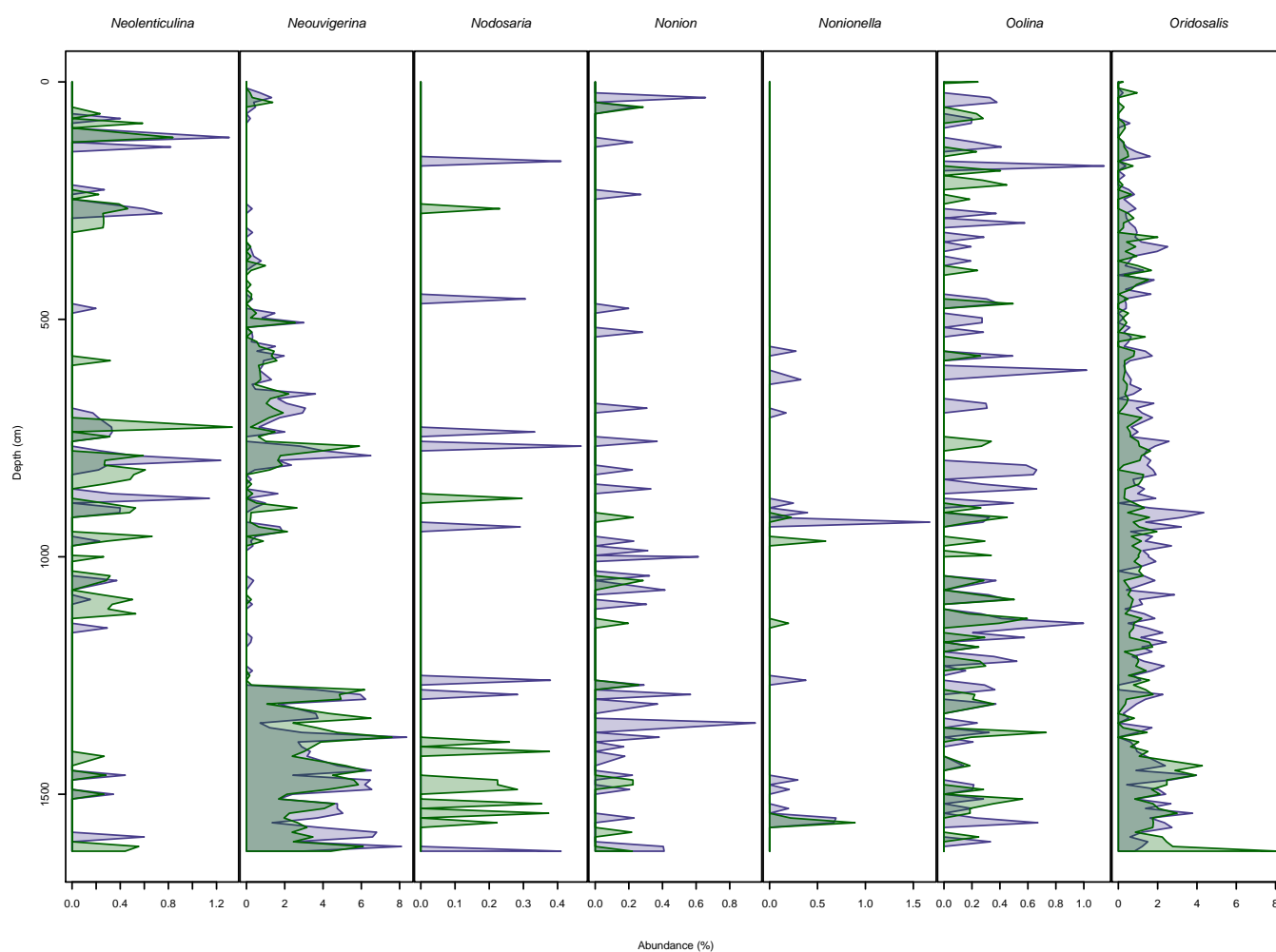


Figure S13: Relative abundances of genera of benthic Foraminifera from the Pefka E section. The abundances within the >125 µm fraction (purple) and the >150 µm fraction (green) are plotted together in the same graph.

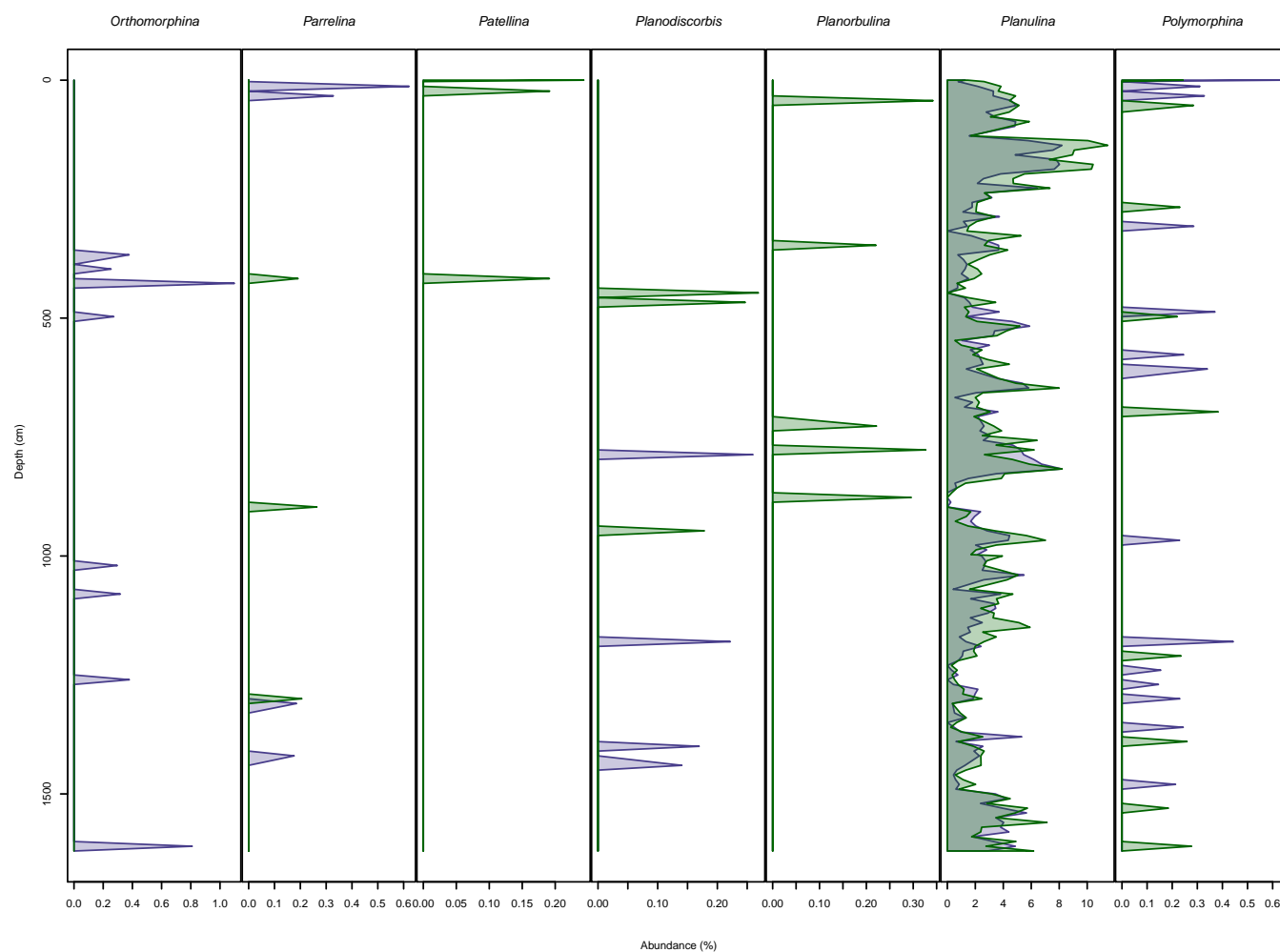


Figure S14: Relative abundances of genera of benthic Foraminifera from the Pefka E section. The abundances within the  $>125\ \mu\text{m}$  fraction (purple) and the  $>150\ \mu\text{m}$  fraction (green) are plotted together in the same graph.

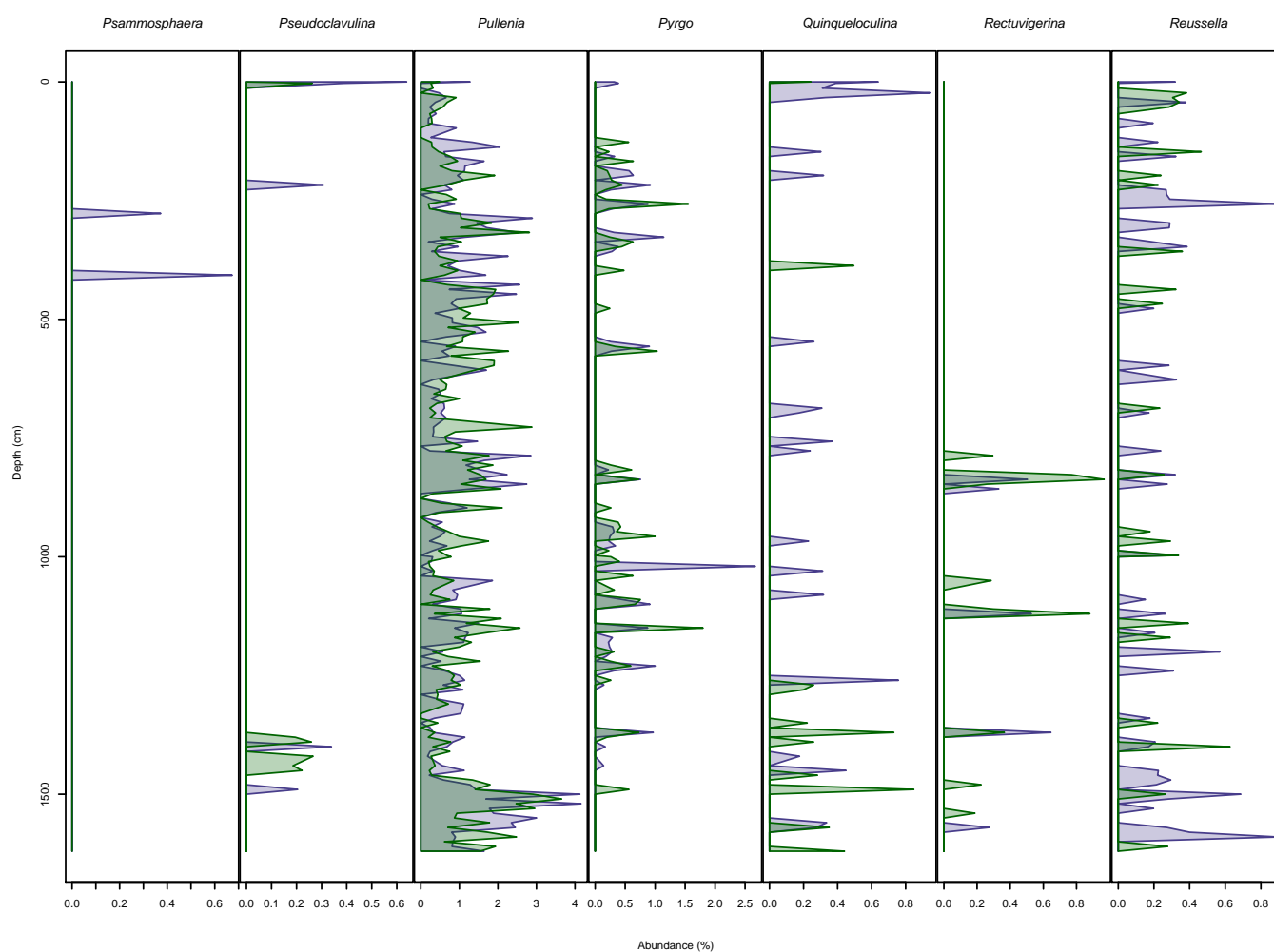


Figure S15: Relative abundances of genera of benthic Foraminifera from the Pefka E section. The abundances within the >125 µm fraction (purple) and the >150 µm fraction (green) are plotted together in the same graph.

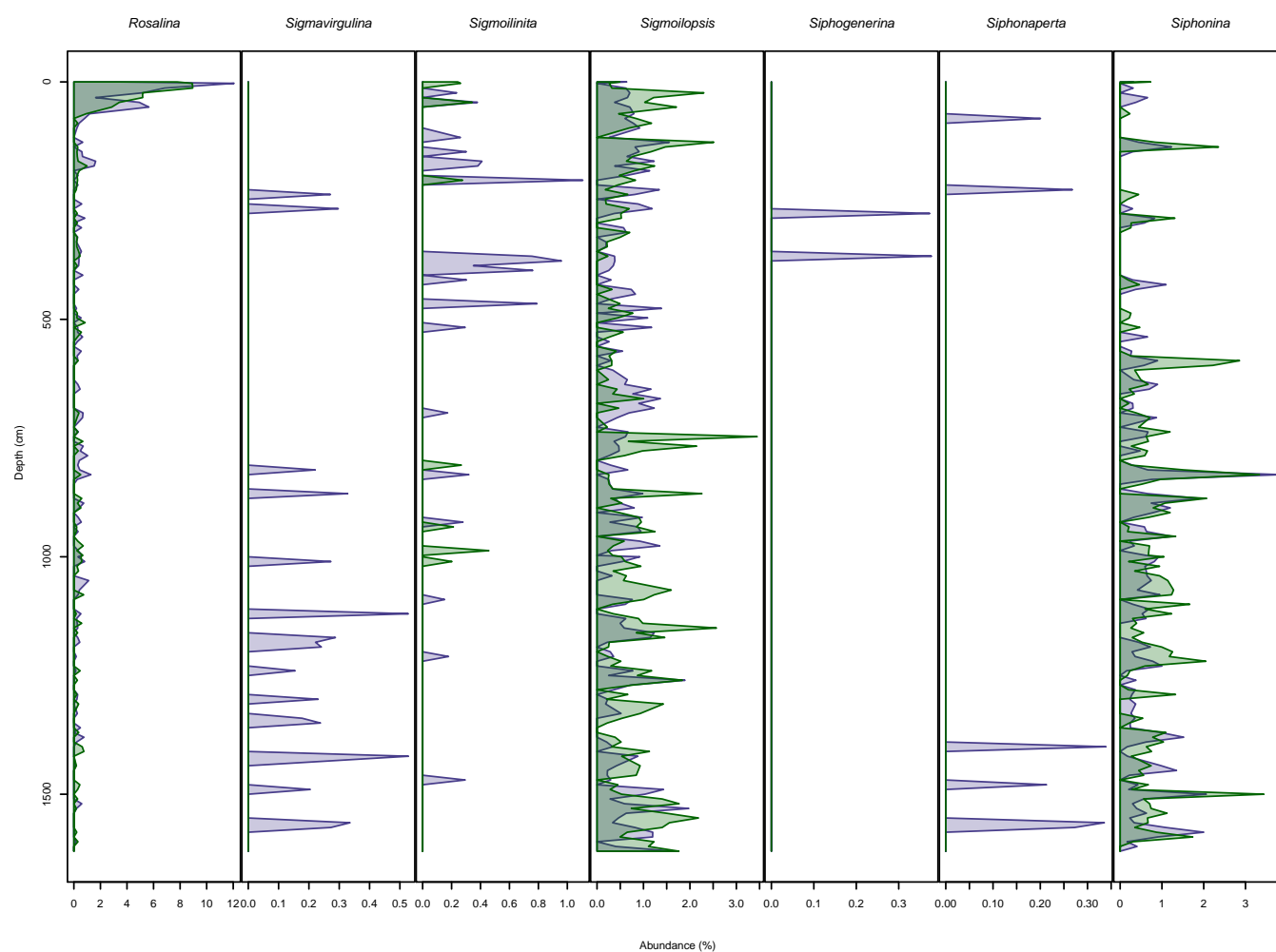


Figure S16: Relative abundances of genera of benthic Foraminifera from the Pefka E section. The abundances within the  $>125\ \mu\text{m}$  fraction (purple) and the  $>150\ \mu\text{m}$  fraction (green) are plotted together in the same graph.

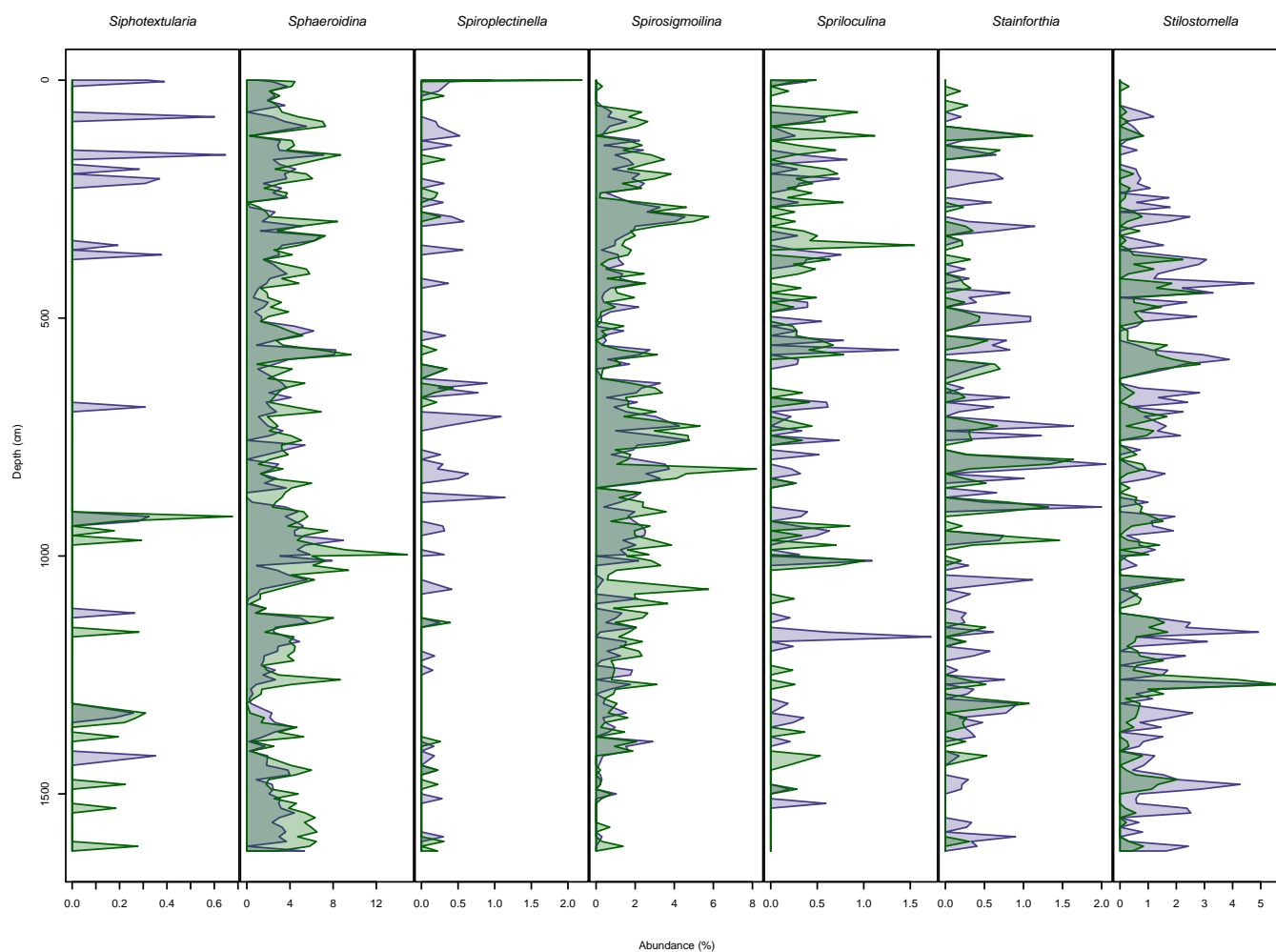


Figure S17: Relative abundances of genera of benthic Foraminifera from the Pefka E section. The abundances within the >125 µm fraction (purple) and the >150 µm fraction (green) are plotted together in the same graph.

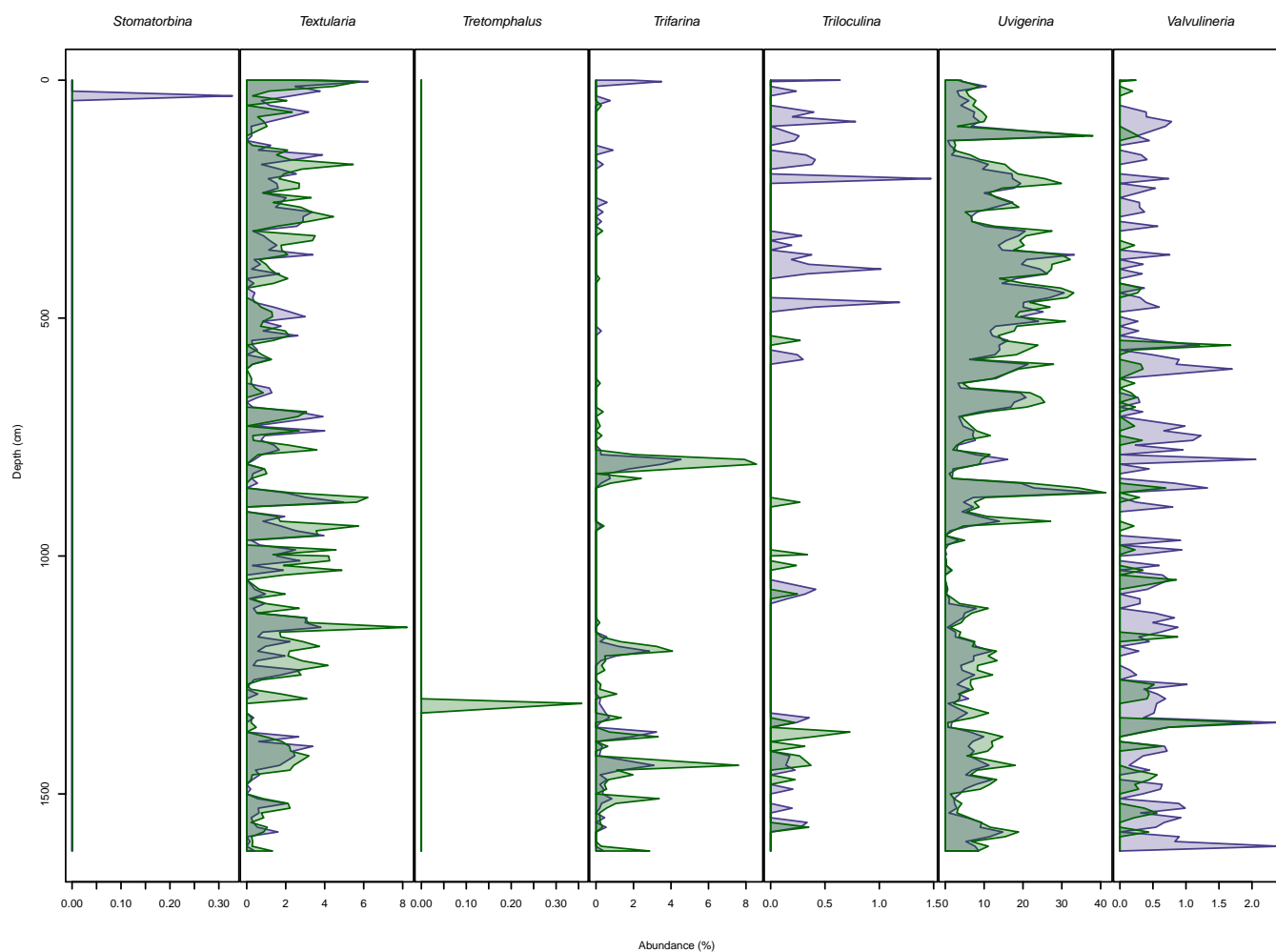


Figure S18: Relative abundances of genera of benthic Foraminifera from the Pefka E section. The abundances within the >125 µm fraction (purple) and the >150 µm fraction (green) are plotted together in the same graph.