

Supplementary Material: Changes in Carbon Oxidation State of Metagenomes along Geochemical Redox Gradients

SUPPLEMENTARY FIGURES

Figure S1. Carbon oxidation state (Z_C) of double-stranded DNA (red symbols) and messenger RNA of predicted coding sequences (blue symbols) along geochemical redox gradients. In order to plot both DNA and RNA on the same diagram, a constant of 0.28 was subtracted from Z_C of RNA. The horizontal axis in each plot is ordered so that relatively oxidizing conditions are toward the right-hand side. Abbreviations: MG – metagenome; MT – metatranscriptome; abbreviations for sample names are given in the Appendix.

Figure S2. Carbon oxidation state (Z_C) of proteins along geochemical redox gradients. Plot arrangement, labels, and abbreviations are the same as in Figure S1.

Figure S3. Carbon oxidation state of DNA sequences for individual species in metagenomes from different types of marine environments. This figure shows the same data as Figure 5 in the main text, but is extended to include the deepest samples of the ETSP OMZ and HOT ALOHA datasets.

SUPPLEMENTARY TABLES

Table S1. Sequence processing statistics.

Table S2. Taxonomic classification statistics.

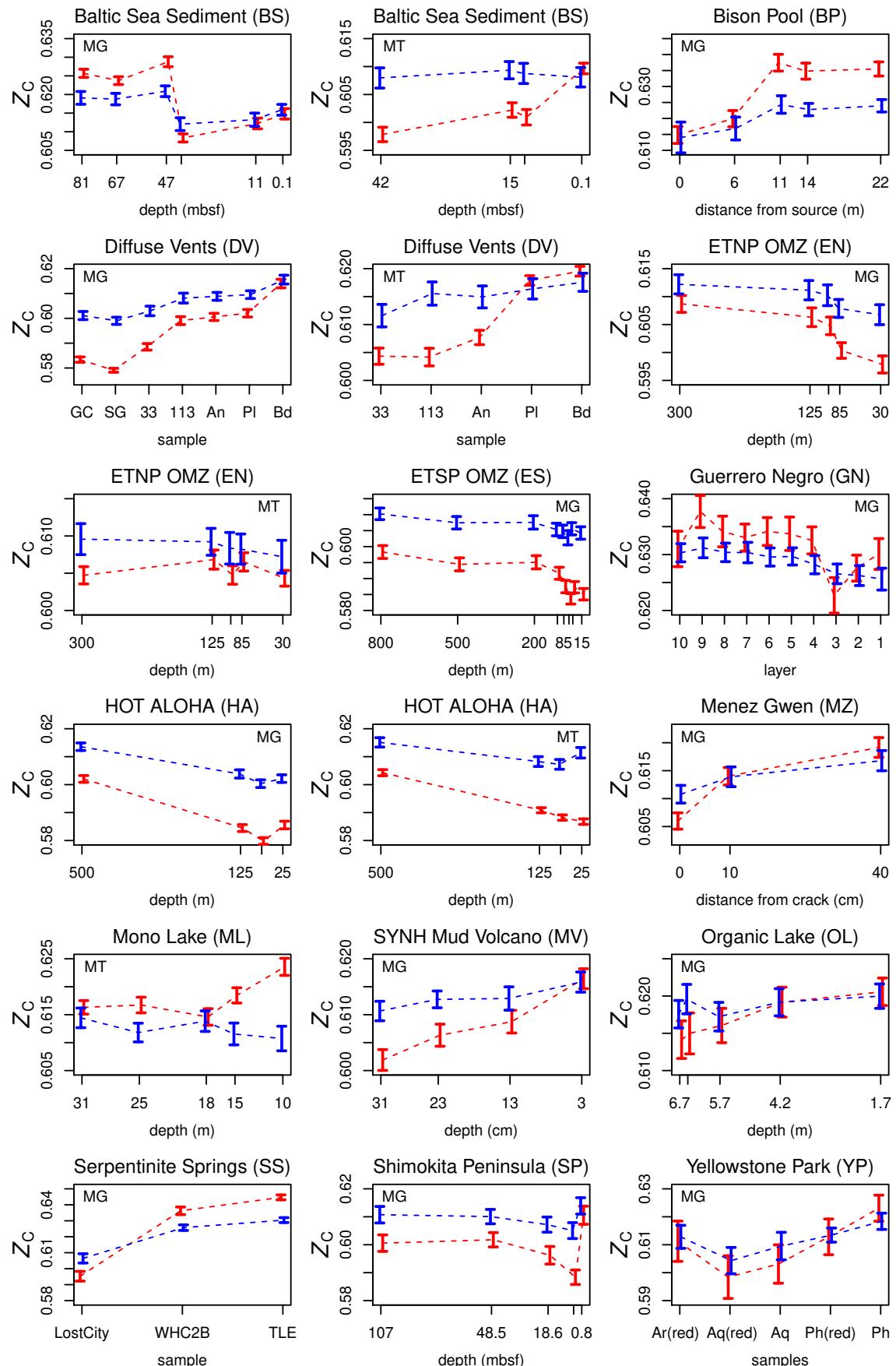
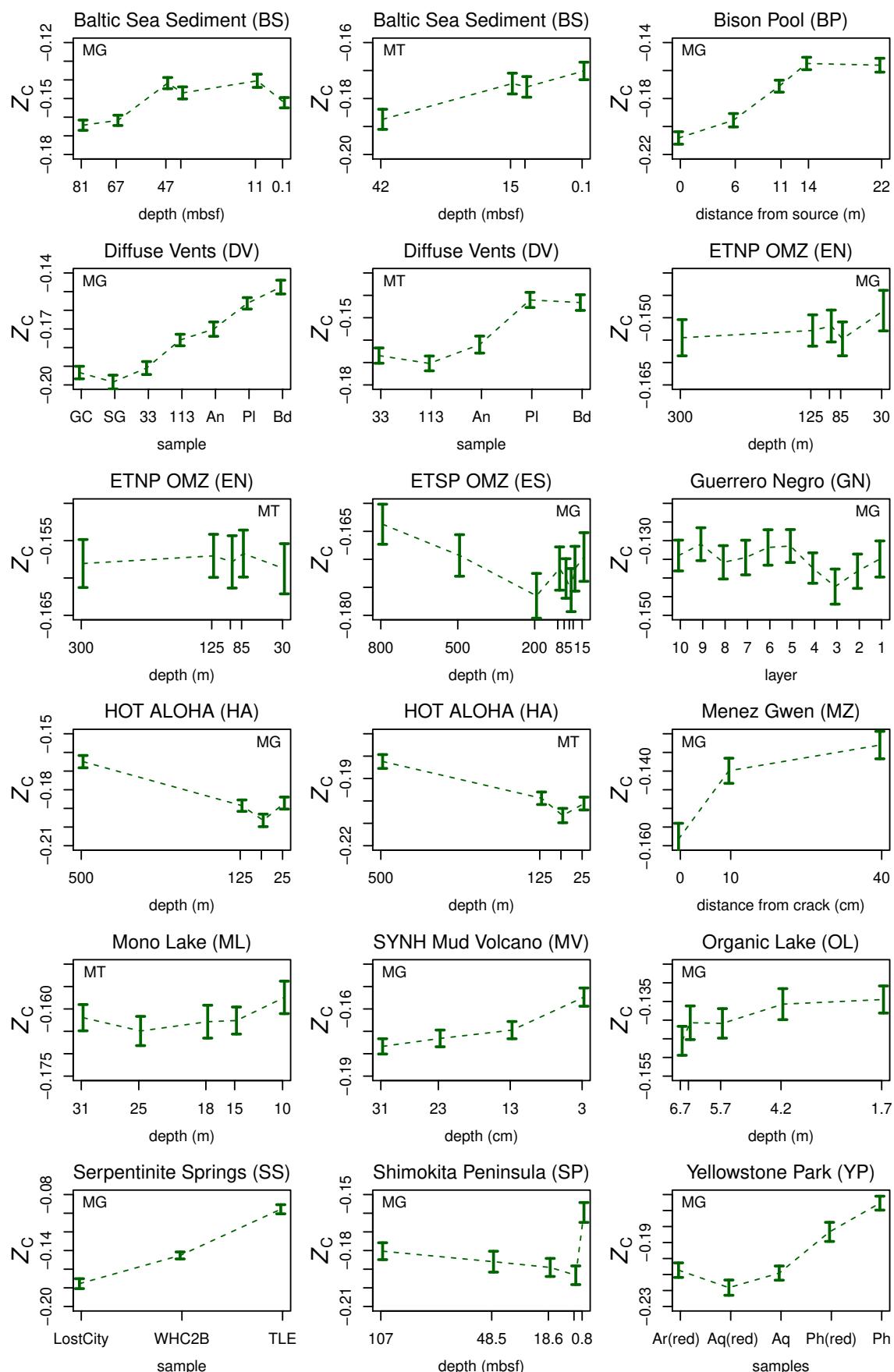


Figure S1.

**Figure S2.**

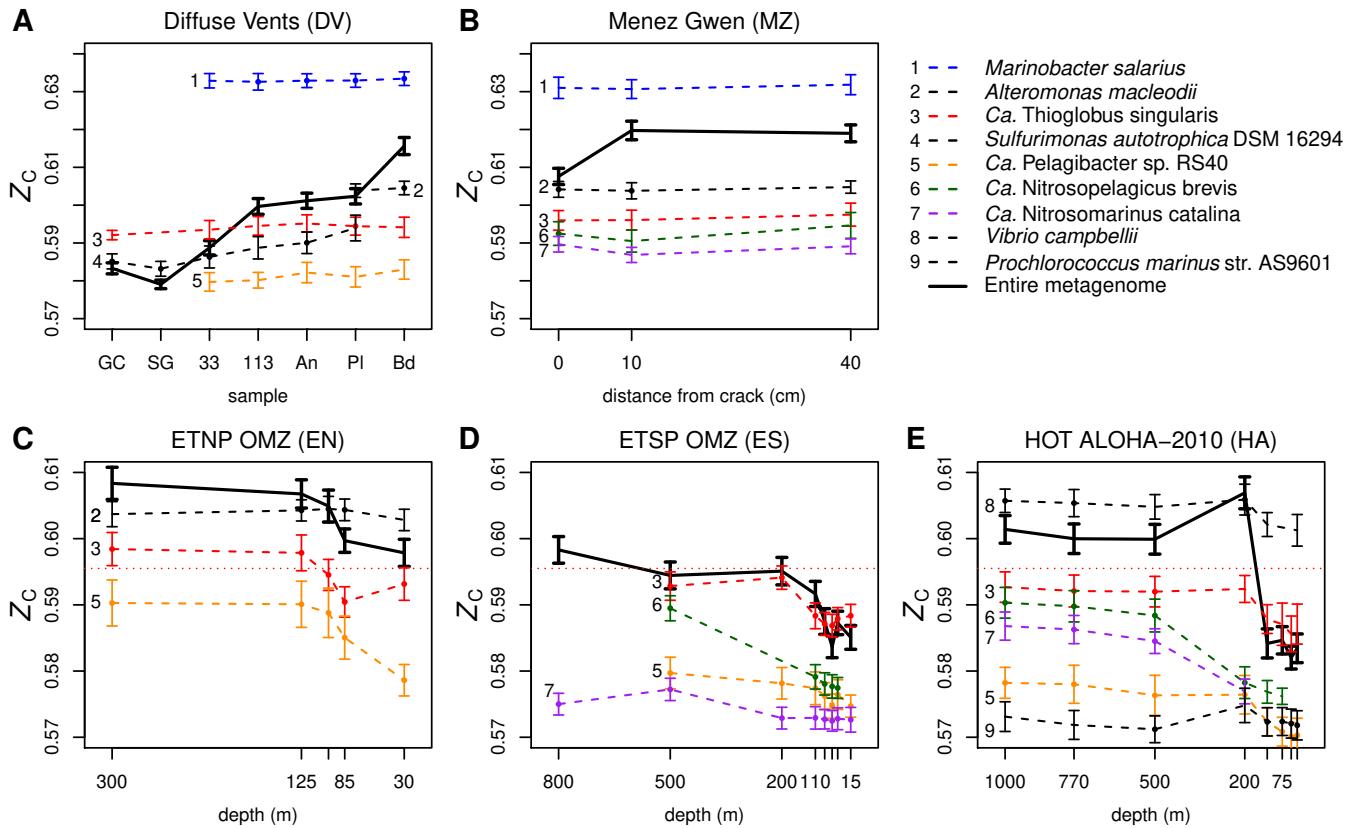


Figure S3.