

## Description of Additional Supplementary Files

**Supplementary Data 1:** Biogeography of the diatom genera detected in V4 and V9 datasets. Bubble areas are scaled to the % reads for the genus among eukaryotic reads at each station location, whereas crosses indicate absence of detection. Colors indicate the exponentiated Shannon Diversity Index. Note that some genera are only detected in V4 or V9 dataset.

Maps were generated with the *borders()* function in *ggplot2*. [Wickham, H. Data Analysis. in *Use R!* 189–201 (Springer International Publishing, Cham, 2016).]