Table S1: List of diatom species identified in 12 samples from core Co1305. Diatom concentrations were calculated using the following equation

## $$diatom concentration=\frac{(\left(NB\right)\left(AF\right))}{M}$$

where N is the total number of diatoms counted, B is the total settling area (mm2), A is the length of transect(s) counted (mm), F is the diameter of the field of view (mm), and M is the mass of dry sediment used (g).