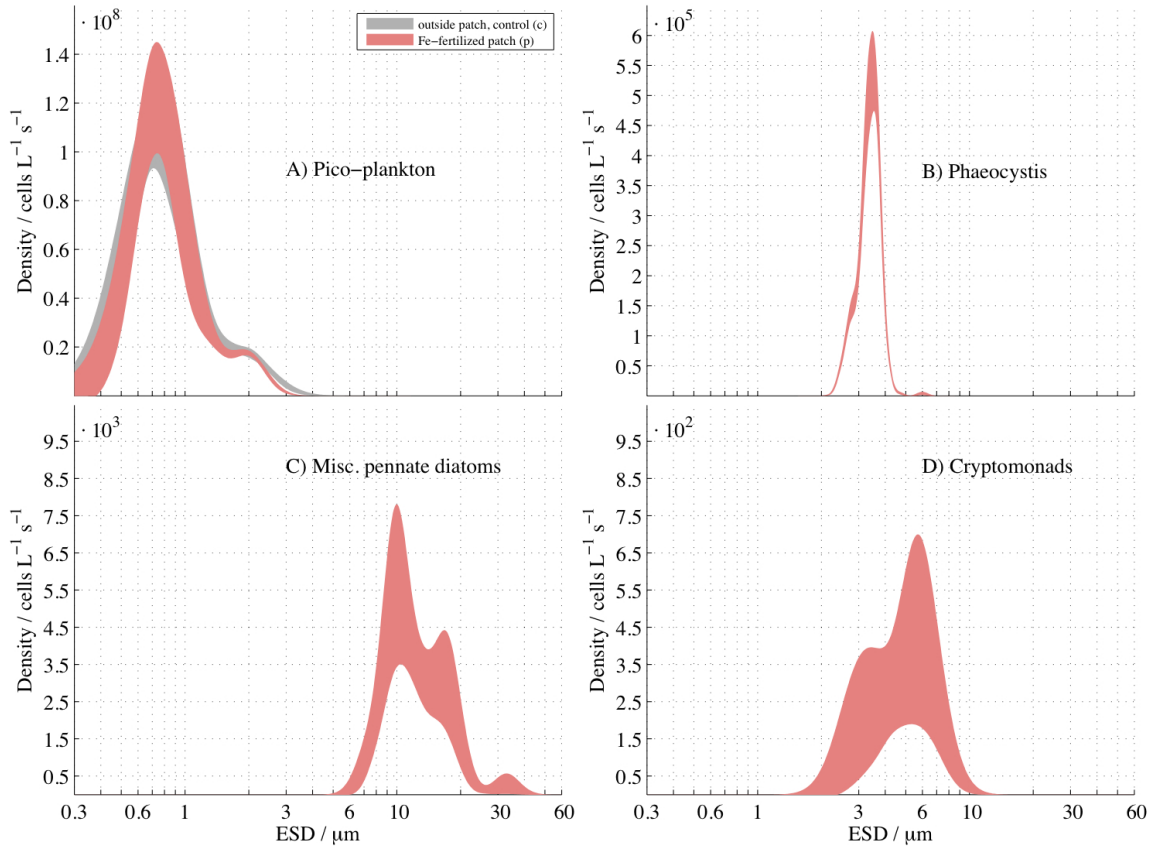
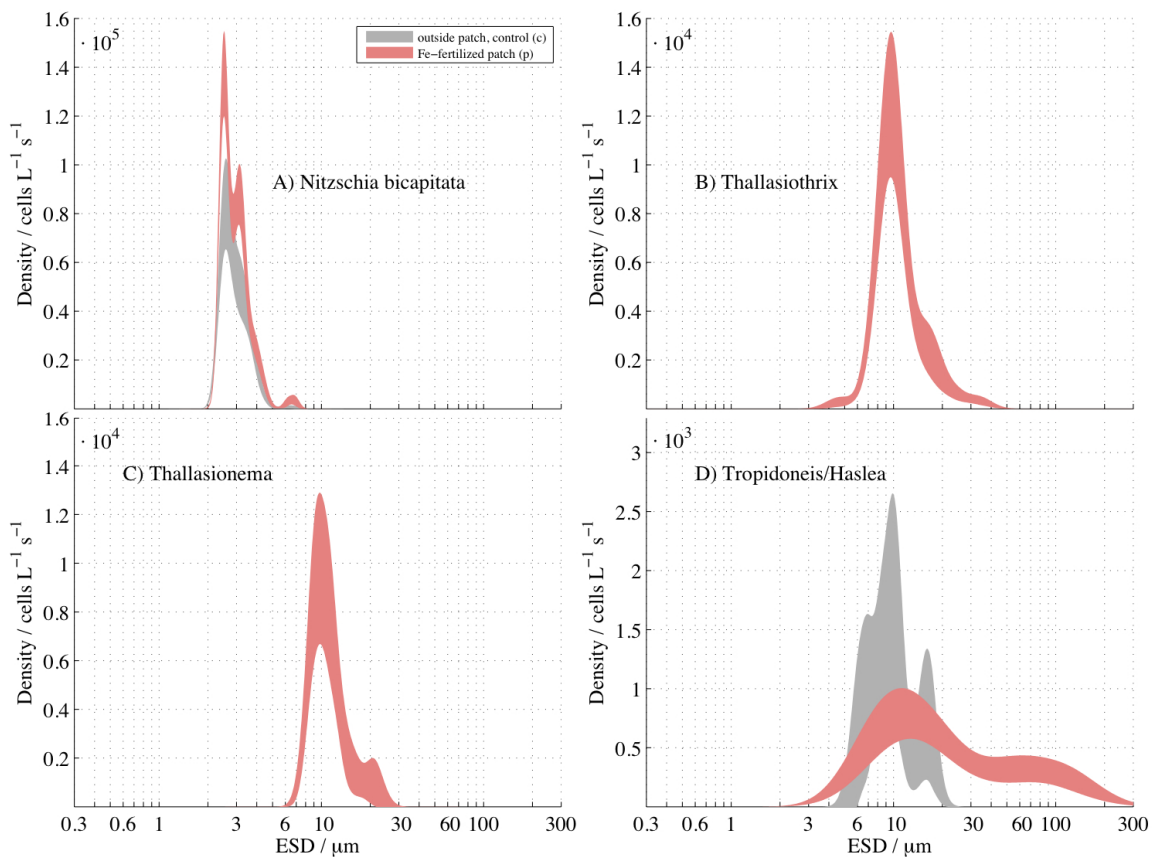


Legends of Supplementary Material

Suppl. Figure 1: Cell concentration densities of four phytoplankton groups as observed during the IronEx II experiment, outside of the fertilise patch (control, gray shaded) and inside of the iron-fertilised patch (patch, red shaded): A) Pico-plankton is a combination of *Synechococcus*, eukaryotes, and *Prochlorococcus*, B) *Phaeocystis*, C) miscellaneous pennate diatoms, and D) *Cryptomonads*. Shaded areas depict the 95% confidence limits (mean $\pm 2 \cdot$ standard deviations) of the nonparametric density estimates. Horizontal axis of equivalent spherical diameter (ESD) is on logarithmic scale with base 10. ESD can be back-transformed from the normalised, logarithmic variable ($s = \ln(\text{ESD}/1.0 \mu\text{m})$) to linear scale according to $\text{ESD} = \exp(s)$. The corresponding density estimates are included in the supplementary phytoplankton data files.



Suppl. Figure 2: Cell concentration densities of four different diatoms observed during the IronEx II experiment, outside of the fertilise patch (control, gray shaded) and inside of the iron-fertilised patch (patch, red shaded): A) *Nitzschia bicaipitata*, B) *Thalassiothrix*, C) *Thalassionema*, and D) *Tripodoneis*. Shaded areas depict the 95% confidence limits (mean $\pm 2 \cdot$ standard deviations) of the nonparametric density estimates. Horizontal axis of equivalent spherical diameter (ESD) is on logarithmic scale with base 10. ESD can be back-transformed from the normalised, logarithmic variable ($s=\ln(\text{ESD}/1.0 \mu\text{m})$) to linear scale according to $\text{ESD}=\exp(s)$. The corresponding density estimates are included in the supplementary phytoplankton data files.



Suppl. Figure 3: Cell concentration densities of three different diatoms and of auto/mixo-trophic ciliates, as observed during the IronEx II experiment, outside of the fertilise patch (control, gray shaded) and inside of the iron-fertilised patch (patch, red shaded): A) miscellaneous centric diatoms, B) *Thalassiosira*, C) *Rhizosolenia*, and D) autotrophic ciliates. Shaded areas depict the 95% confidence limits (mean $\pm 2 \cdot$ standard deviations) of the nonparametric density estimates. Horizontal axis of equivalent spherical diameter (ESD) is on logarithmic scale with base 10. ESD can be back-transformed from the normalised, logarithmic variable ($s = \ln(\text{ESD}/1.0 \mu\text{m})$) to linear scale according to $\text{ESD} = \exp(s)$. The corresponding density estimates are included in the supplementary phytoplankton data files.

