

Supplementary data – Available as separate files

Lasbleiz et al. Composition of diatom communities and their contribution to plankton biomass in the naturally iron fertilized region of Kerguelen in the Southern Ocean.

Supplementary Table 1. The following table lists each diatom species/genus encountered in this study following its accepted name listed in the World Register of Marine Species (WoRMS: <http://www.marinespecies.org/>) and its associated authorities.

Supplementary Table 2. All count results obtained from CTD samples at four to five depths relative to varying Photosynthetically Active Radiation (PAR; 75 % to 0 %) and for each of the eight studied stations are provided via the public database archive PANGAEA ([doi:10.1594/PANGAEA.860296](https://doi.org/10.1594/PANGAEA.860296)). The table reports the live cell abundance, empty frustule abundance (Cells L⁻¹) and carbon (C) biomass (ng C L⁻¹) of the total diatom community and of each diatom species/genus at all studied depths and stations. The species-specific contribution to live cell abundance (%) and to C biomass (%) are then calculated from these results.

Supplementary Table 3. The following table reports the integrated carbon (C) biomass (mg C m⁻²) of each functional plankton group encountered (from pico- to microplankton) and their relative contribution to total C biomass at the eight studied stations within the euphotic layer and the sub-euphotic layer ([defined as the layer extending 100 m below the euphotic depth](#)).