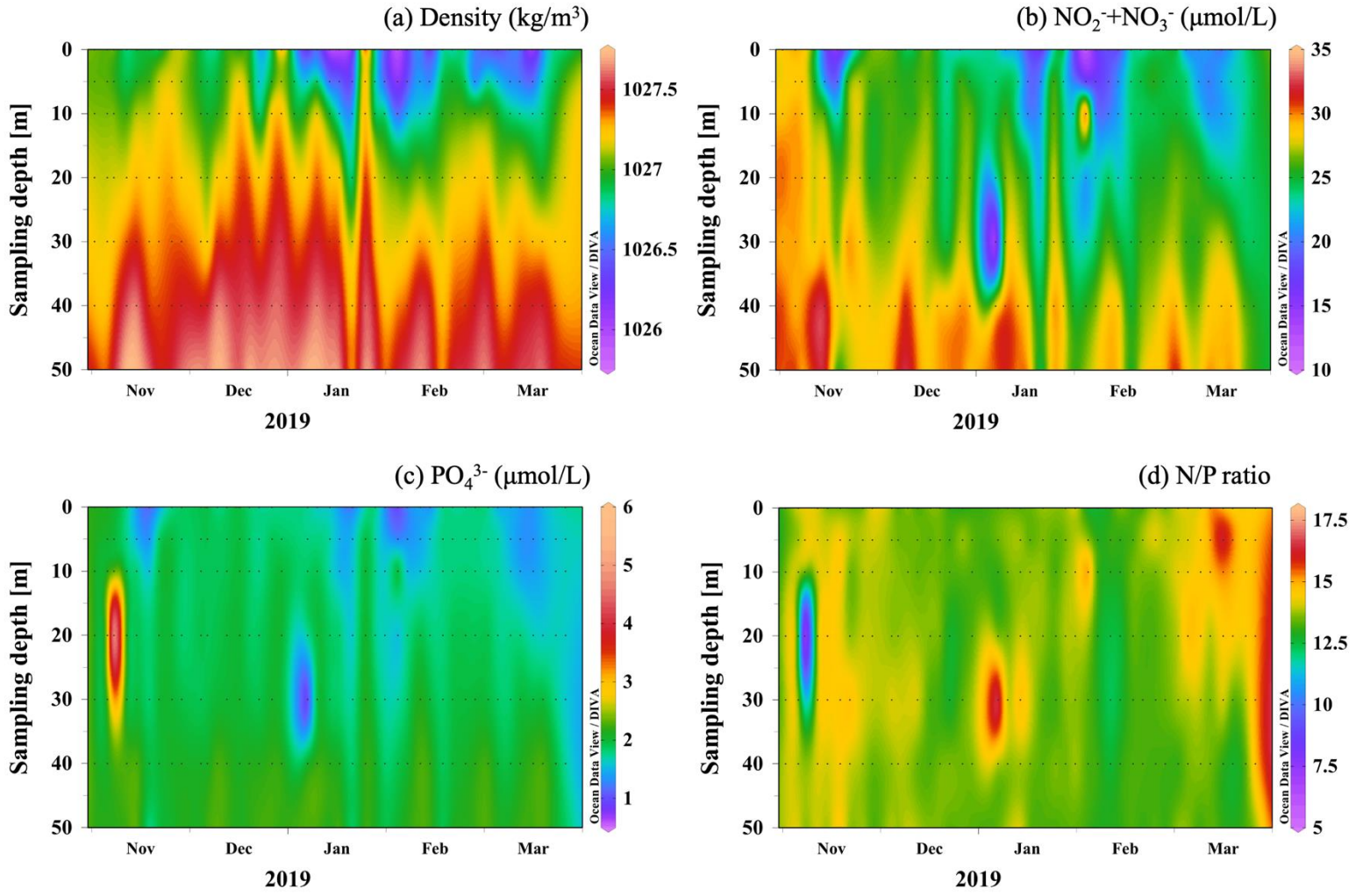
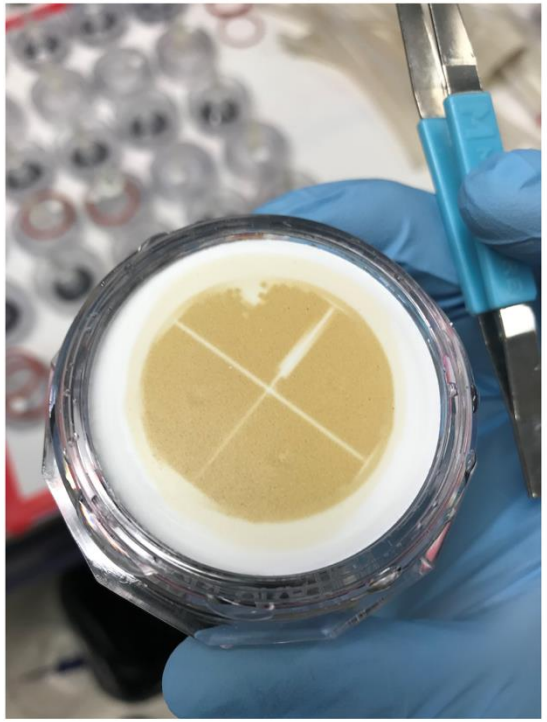


Supplementary Figure 1: Vertical profiles of (a) density, (b) NO_3^-+NO_2^-, (c) PO_4^{3-} and (d) N/P ratio at Station B adjacent to Palmer Station.

Data source: Palmer Station Antarctica LTER, H. Ducklow, M. Vernet, and B. Prezelin. 2019. Dissolved inorganic nutrients including 5 macro nutrients: silicate, phosphate, nitrate, nitrite, and ammonium from water column bottle samples collected between October and April at Palmer Station, 1991 - 2019. ver 9. Environmental Data Initiative. https://doi.org/10.6073/pasta/8f9b7a10633d6eed2e8c0f2eefb8ac0c

Jan. 17th
DNA 10B

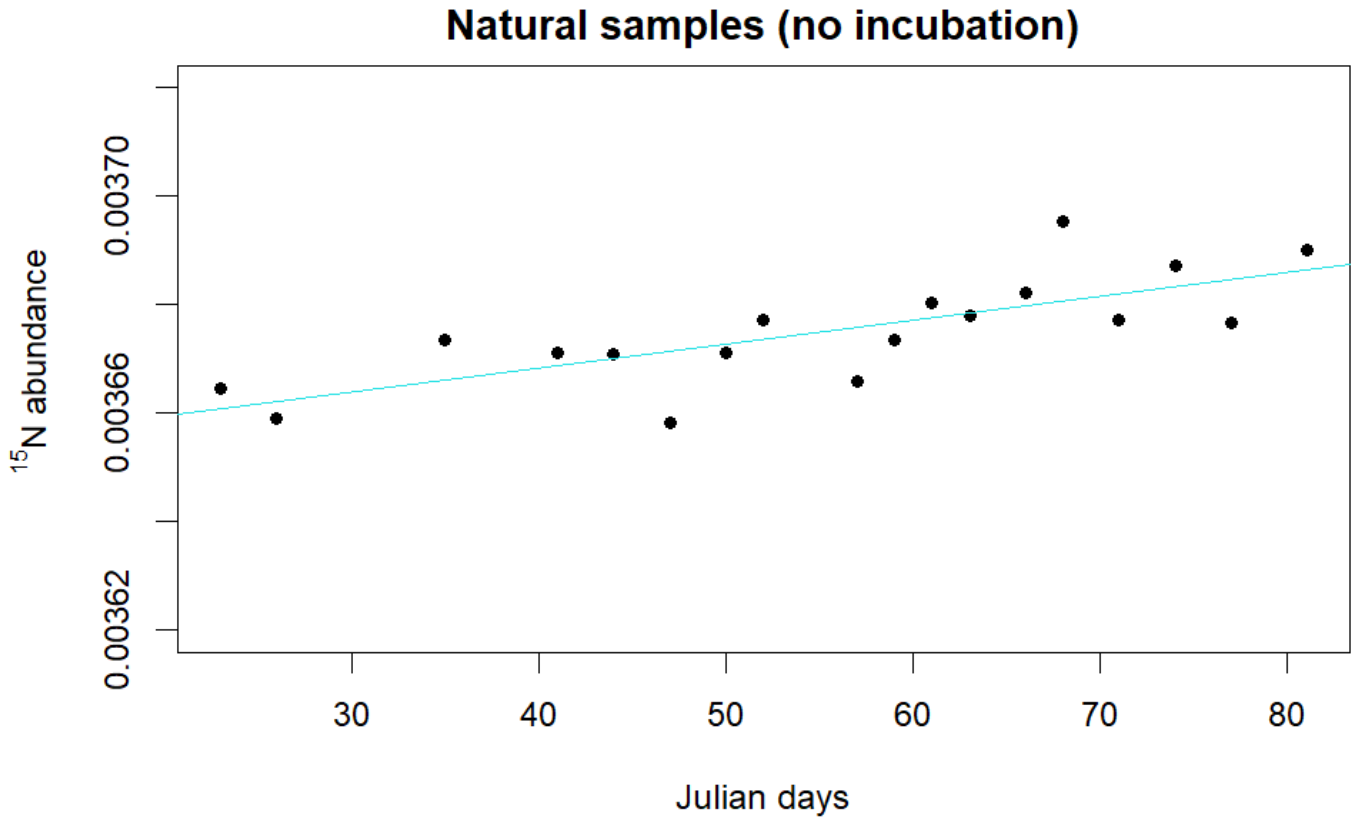


Jan. 19th
DNA 15B

Jan. 25th
1st $^{15}N_2$ incubation

Jan. 28th
2nd $^{15}N_2$ incubation

Supplementary Figure 2: The colors of the filtered biomass on different days.



Supplementary Figure 3: Evolution of the 15N abundance in the particulate organic N before the incubation (natural abundance) as a function of the julian days measured at Palmer Station. The blue line is the linear regression (least square method, r=0.75, p-value = 0.0003, n=18).