

## Interactive comment on "Sources of Fe-binding organic ligands in surface waters of the western Antarctic Peninsula" by Indah Ardiningsih et al.

## Indah Ardiningsih et al.

indah.ardiningsih@nioz.nl

Received and published: 21 January 2021

**Figures** 

Interactive comment on Biogeosciences Discuss., https://doi.org/10.5194/bg-2020-357, 2020.

C1

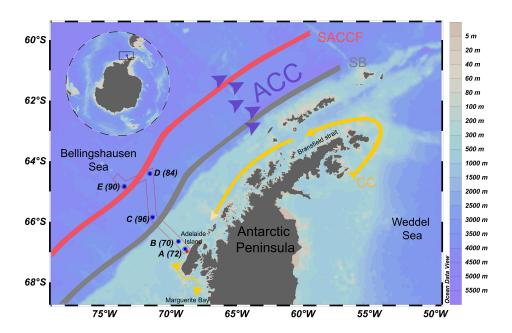
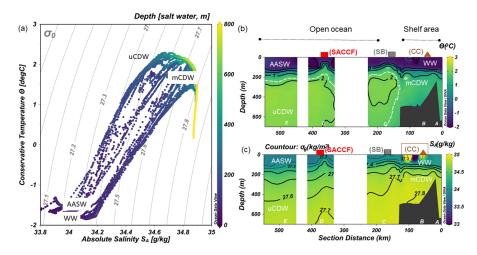
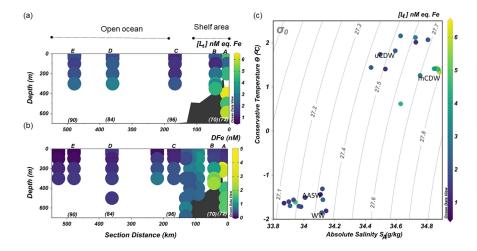


Fig. 1. Map of the sampling sites along our study transect near the Western Antarctic Peninsula.

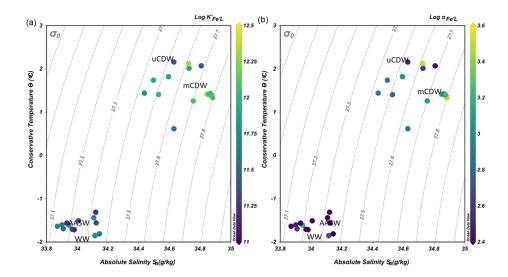


**Fig. 2.** (a) Diagram of absolute salinity (SA) versus conservative temperature (Ƨ) with isopycnal lines and colors denoting depth in m. The distribution along the transect shown in Figure 1 of (b) Ƨ and (c) SA

СЗ

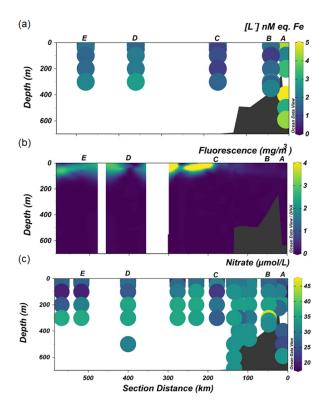


**Fig. 3.** The distribution along the transect shown in Figure 1 of (a) the concentrations of total Fe-binding ligand [Lt] and (b) concentrations of dissolved-Fe (DFe); and (c) a  $\not$ E§- SA diagram



**Fig. 4.** (a) The binding strength, log "K" \_"Fe'L" ^"cond" and (b) complexation capacity, log  $\alpha$ FeÎĎL plotted in a Ƨ-SA diagram. The color scale indicates the values of log K and log  $\alpha$ FeÎĎL.

C5



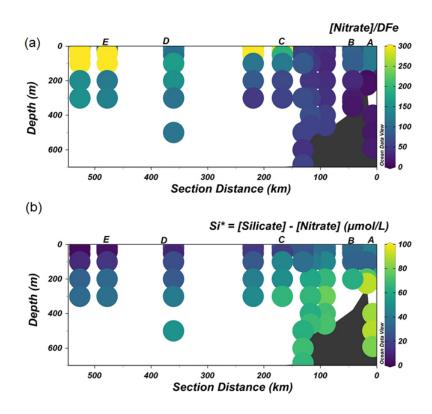


Fig. 6. The distribution of  $Si^*(a)$  and the ratio of [Nitrate]/DFe (b) along the transect shown in Figure 1.