

## ***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.**

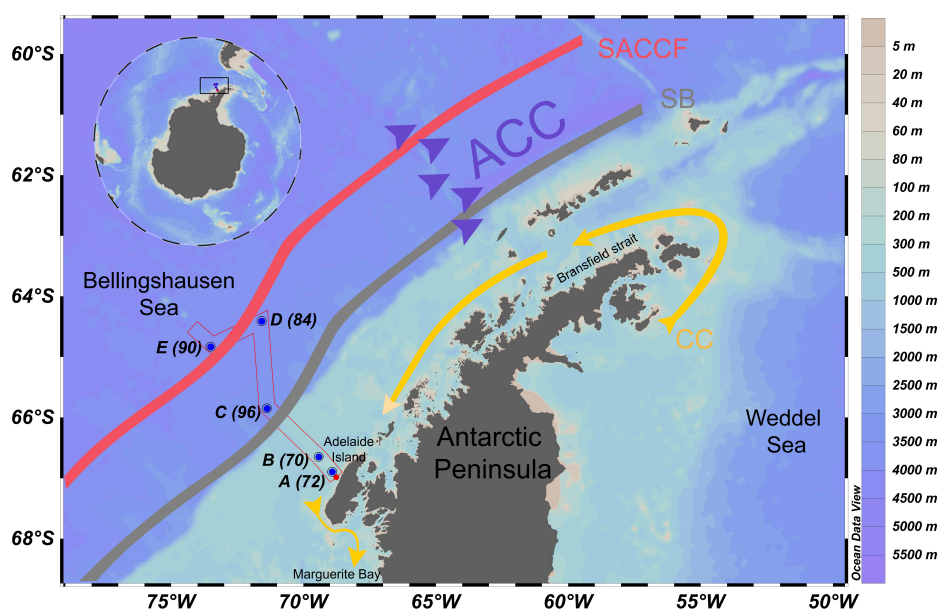
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### Figures

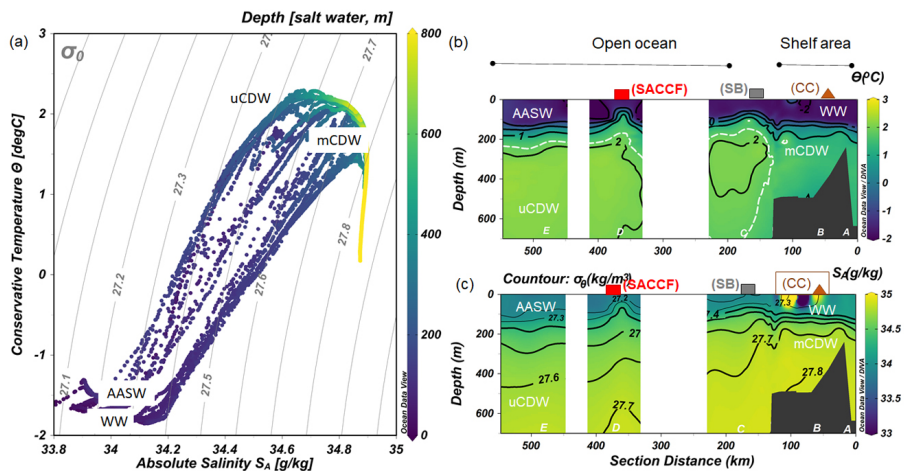
Interactive comment on Biogeosciences Discuss., https://doi.org/10.5194/bg-2020-357, 2020.

C1



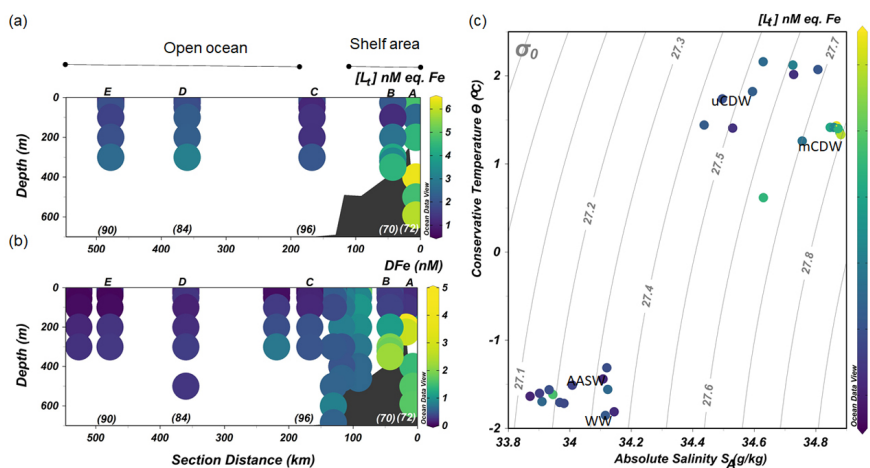
**Fig. 1.** Map of the sampling sites along our study transect near the Western Antarctic Peninsula.

C2



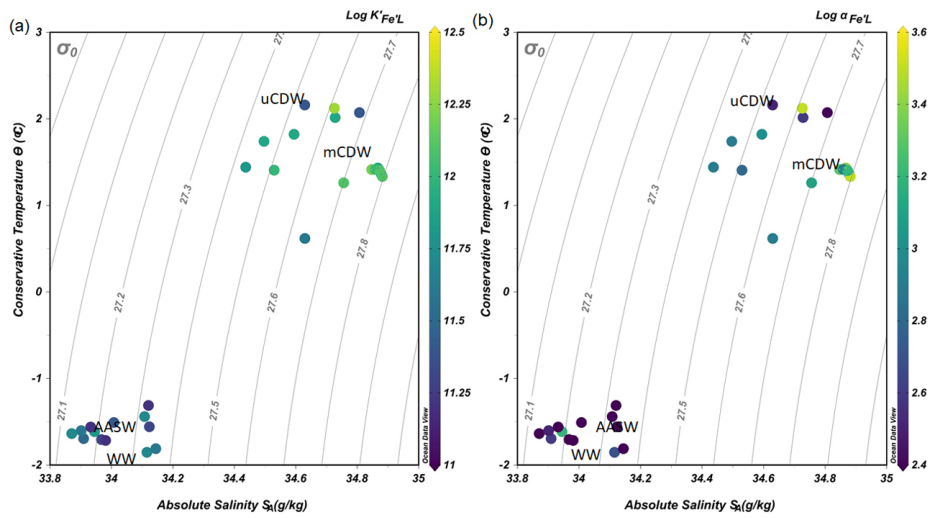
**Fig. 2.** (a) Diagram of absolute salinity (SA) versus conservative temperature ( $\Theta$ ) with isopycnal lines and colors denoting depth in m. The distribution along the transect shown in Figure 1 of (b)  $\Theta$  and (c) SA

C3



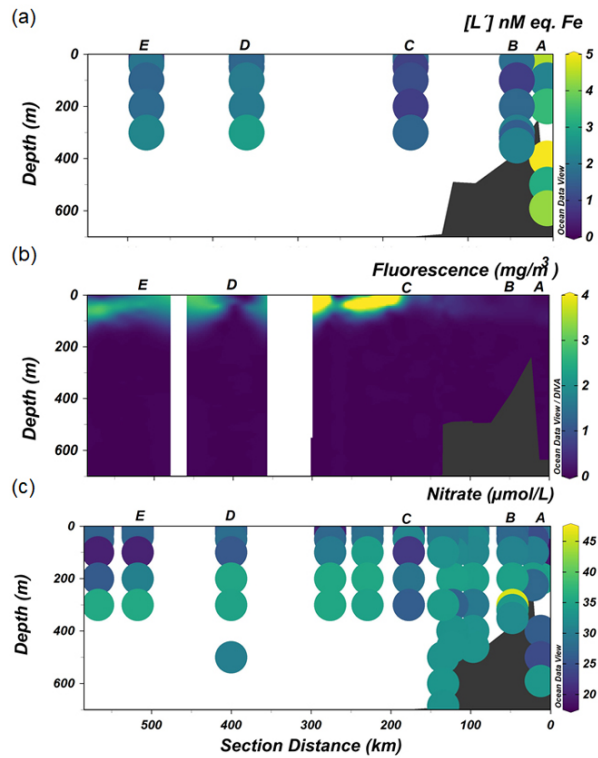
**Fig. 3.** The distribution along the transect shown in Figure 1 of (a) the concentrations of total Fe-binding ligand [L] and (b) concentrations of dissolved-Fe (DFe); and (c) a  $\Theta$ -SA diagram

C4



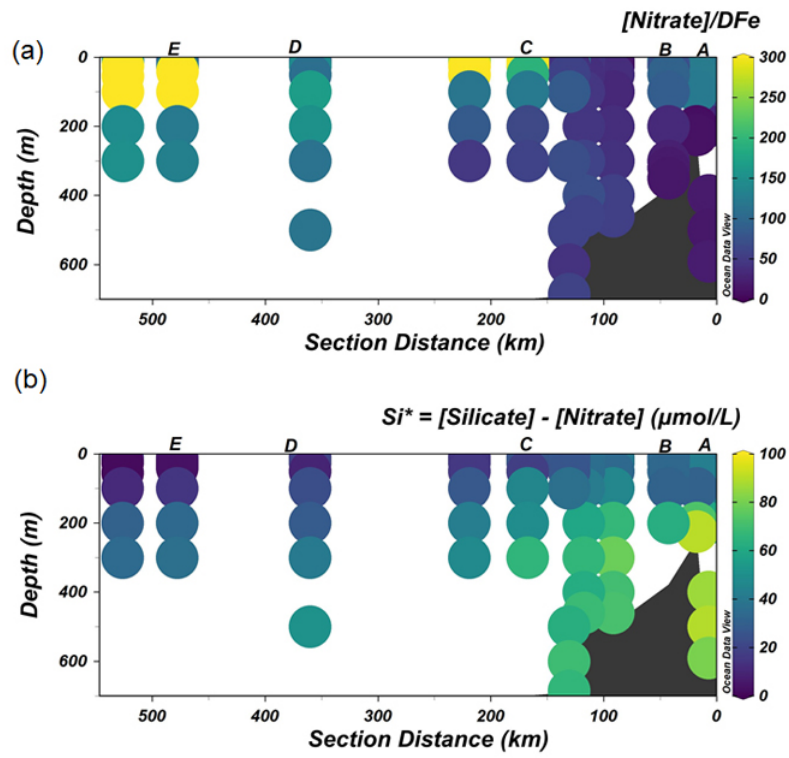
**Fig. 4.** (a) The binding strength,  $\log K'_{Fe'L}$  and (b) complexation capacity,  $\log \alpha_{Fe}DL$  plotted in a  $\theta$ - $S_A$  diagram. The color scale indicates the values of  $\log K$  and  $\log \alpha_{Fe}DL$ .

C5



**Fig. 5.** The distribution along the transect shown in Figure 1 of (a) excess ligand concentrations  $[L]$ , (b) Fluorescence, and (c) Nitrate.

C6



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