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

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Figures

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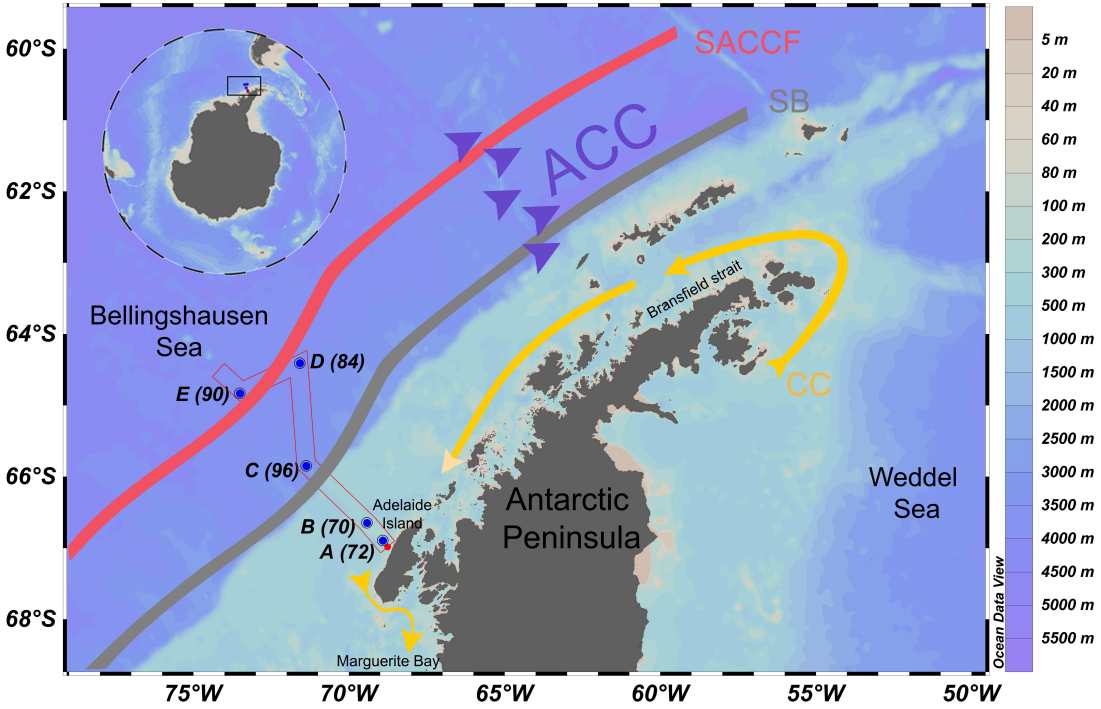


**Fig. 1.** Map of the sampling sites along our study transect near the Western Antarctic Peninsula.



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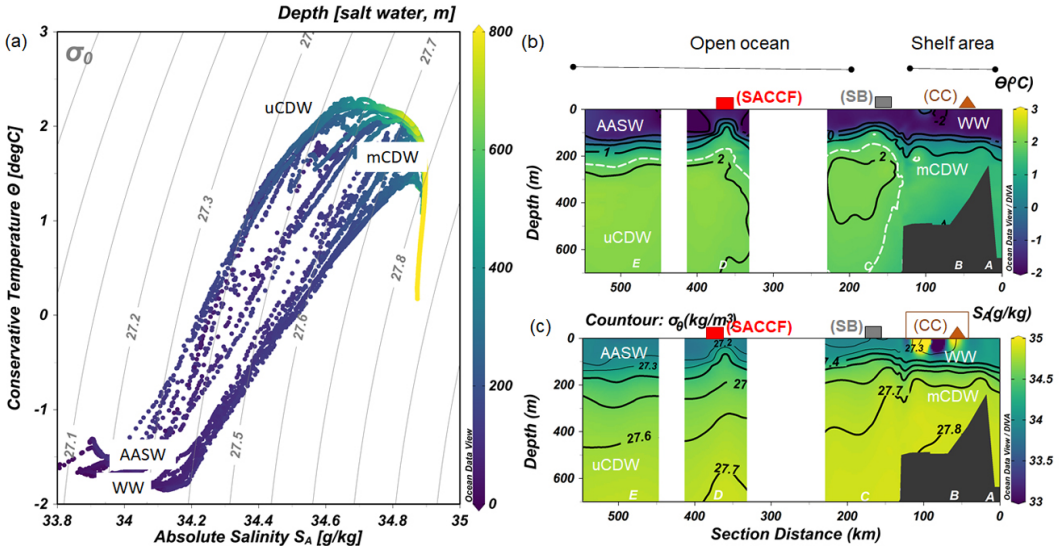


**Fig. 2.** (a) Diagram of absolute salinity (SA) versus conservative temperature (Æ§) with isopycnal lines and colors denoting depth in m. The distribution along the transect shown in Figure 1 of (b) Æ§ and (c) SA



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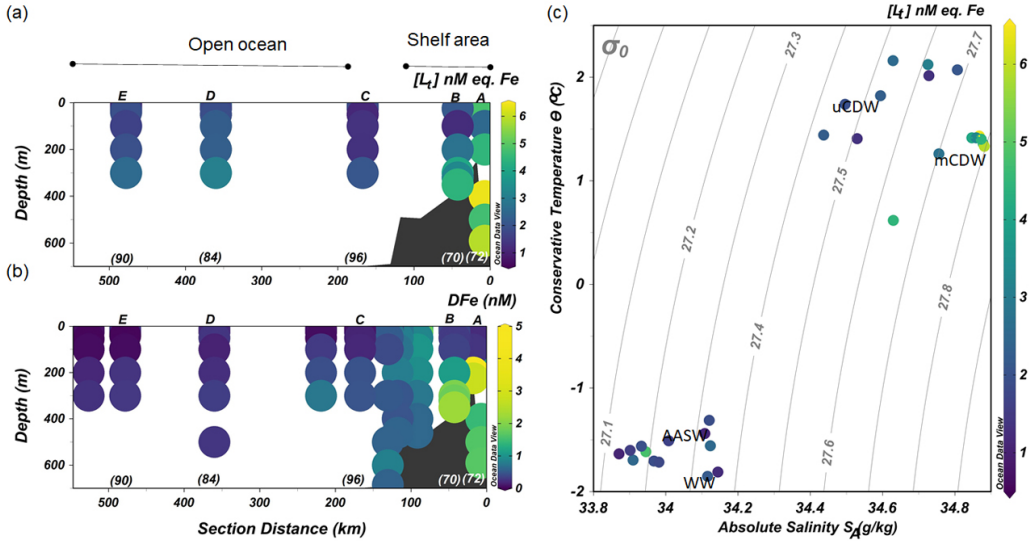


**Fig. 3.** : The distribution along the transect shown in Figure 1 of (a) the concentrations of total Fe-binding ligand [Lt] and (b) concentrations of dissolved-Fe (DFe) and (c) a Æ§- SA diagram



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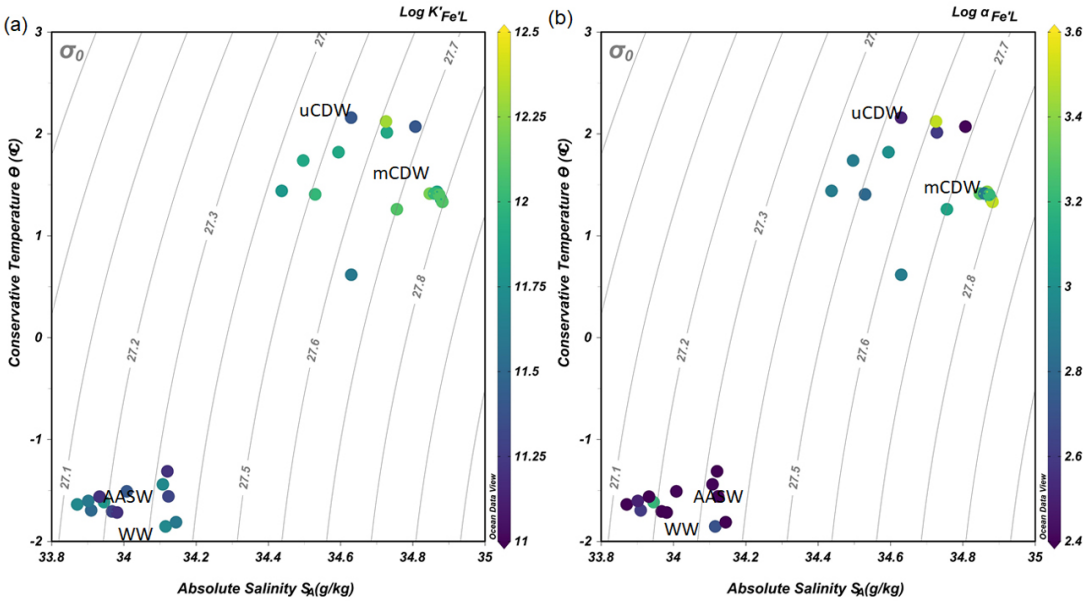


**Fig. 4.** (a) The binding strength, log "K" _"Fe'L" ˆ"cond" and (b) complexation capacity, log $\alpha$FeÎĎL plotted in a Æ§-SA diagram. The color scale indicates the values of log "K" _"Fe'L" ˆ"cond" and log $\alpha$FeÎĎL.



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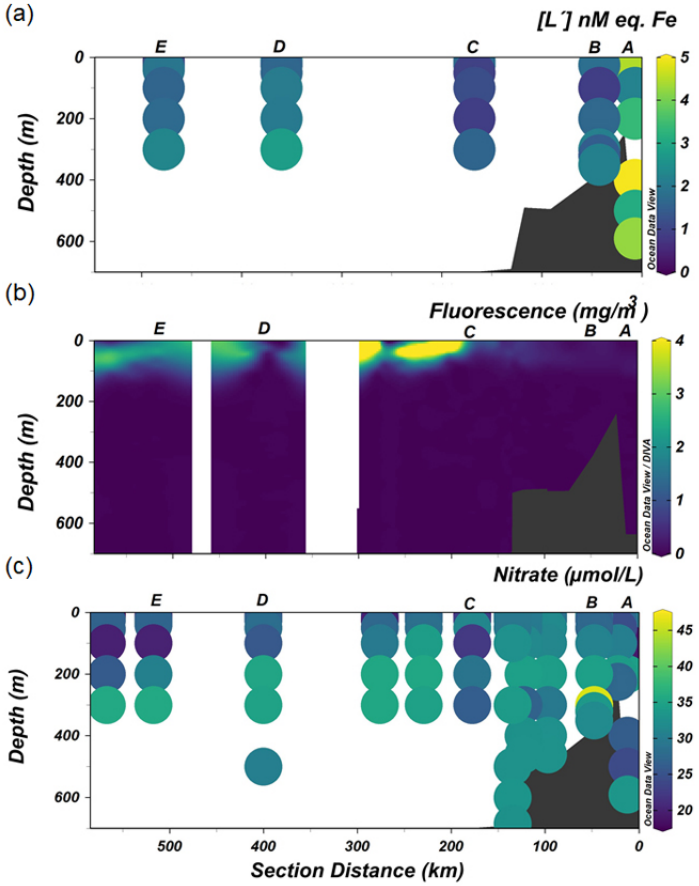


**Fig. 5.** The distribution along the transect shown in Figure 1 of (a) excess ligand concentrations [LĬD], (b) Fluorescence, and (c) Nitrate.



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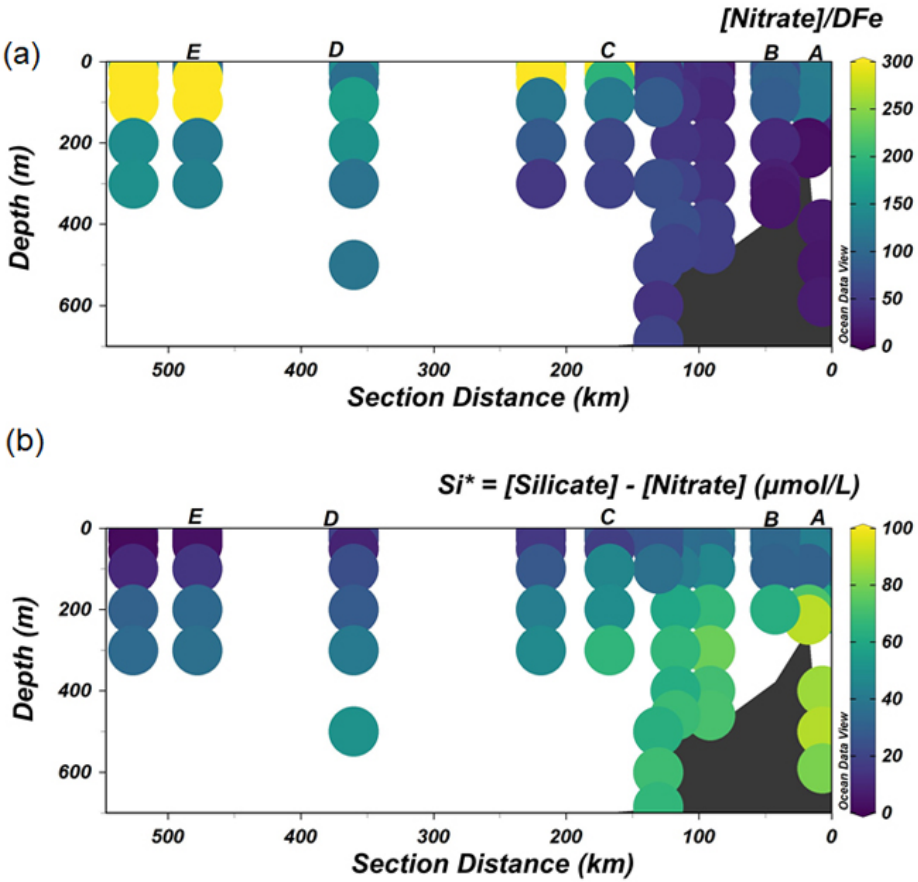


**Fig. 6.** The distribution of Si*(a) and the ratio of [Nitrate]/DFe (b) along the transect shown in Figure 1.





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