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

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 ($\Theta$) with isopycnal lines and colors denoting depth in m. The distribution along the transect shown in Figure 1 of (b) $\Theta$ and (c) SA.
**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 $\theta$-SA diagram.
Fig. 4. (a) The binding strength, log $'K'_{Fe'\cdot L} \cdot ^{\circ}\text{cond}$ and (b) complexation capacity, log $\alpha_{Fe\cdot DL}$ plotted in a $\Theta$-SA diagram. The color scale indicates the values of log $'K'_{Fe'\cdot L} \cdot ^{\circ}\text{cond}$ and log $\alpha_{Fe\cdot DL}$.
Fig. 5. The distribution along the transect shown in Figure 1 of (a) excess ligand concentrations [LIΔ], (b) Fluorescence, and (c) Nitrate.
Fig. 6. The distribution of Si*(a) and the ratio of [Nitrate]/DFe (b) along the transect shown in Figure 1.