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 $K^{\text{Fe'L'}}^{\text{cond}}$ and (b) complexation capacity, log $\alpha^{\text{Fe'DL}}$ plotted in a $\Phi$-$SA$ diagram. The color scale indicates the values of log $K^{\text{Fe'L'}}^{\text{cond}}$ and log $\alpha^{\text{Fe'DL}}$.

Fig. 5. The distribution along the transect shown in Figure 1 of (a) excess ligand concentrations $[L']$D, (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.