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 (阂) with isopycnal lines and colors denoting depth in m. The distribution along the transect shown in Figure 1 of (b) 阄 and (c) SA

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 阄- SA diagram
Fig. 4. (a) The binding strength, log $K_{Fe'L}$ and (b) complexation capacity, log $\alpha_{FeLDL}$ plotted in a $\Theta$-SA diagram. The color scale indicates the values of log $K$ and log $\alpha_{FeLDL}$.

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