

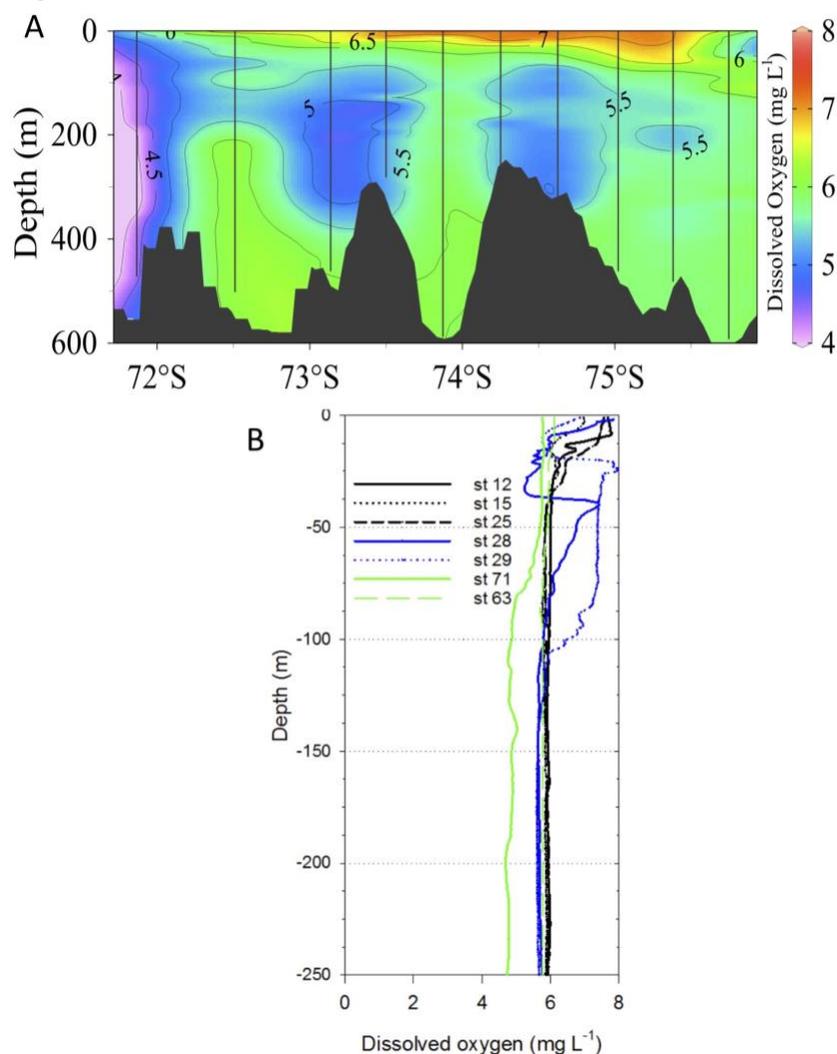
## Supplementary Material

### Ross Sea dissolved organic matter optical properties during an austral summer: biophysical influences

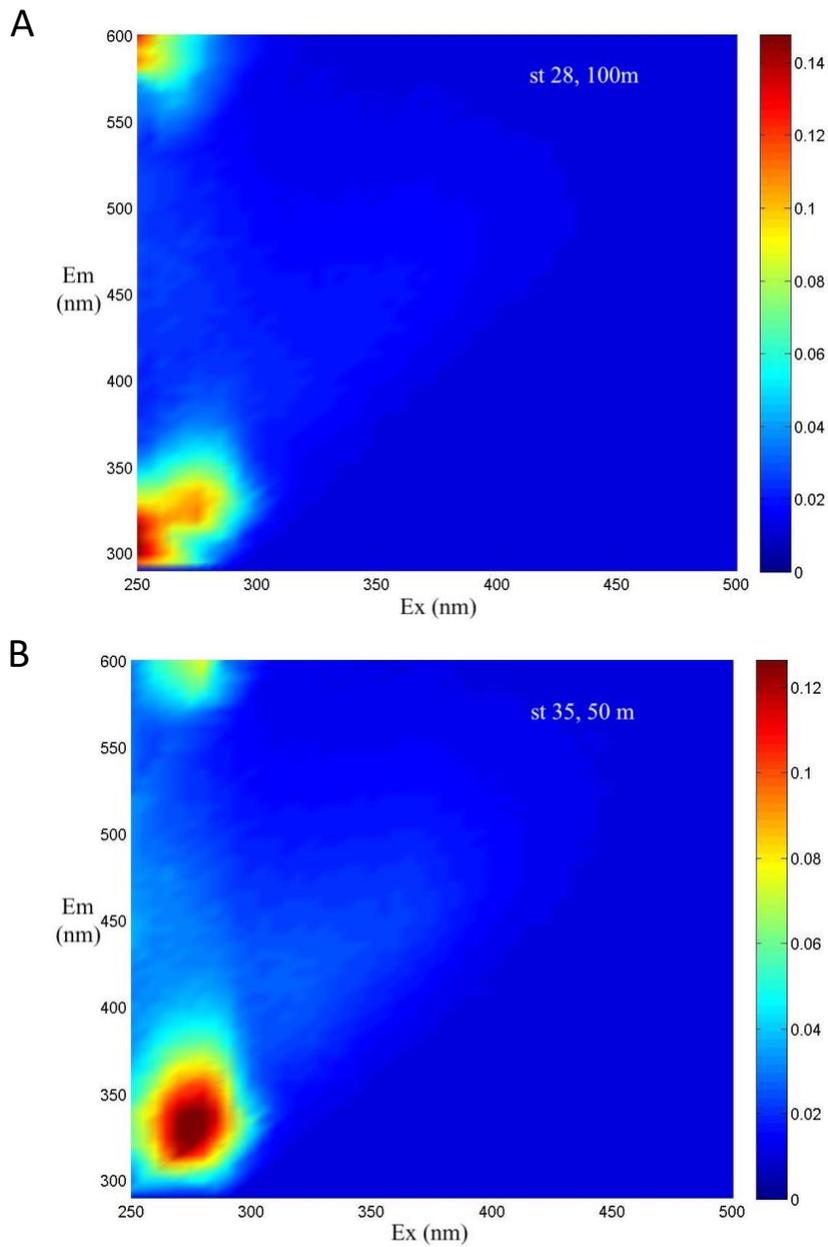
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#### Supplemental Figures



**FIGURE 1.** Water column dissolved oxygen. **(A)** Distribution of dissolved oxygen ( $\text{mg L}^{-1}$ ) along transect T1. **(B)** Vertical profiles of dissolved oxygen in the SW (sts 12, 15 and 25; black), off-RIS (sts 28 and 29; blue) and off Victoria Land in NW and north of the Ross Island (sts 63 and 71; green).



**FIGURE 2.** EEMs fluorescence spectra with elevated signals. Example of EEMs fluorescence spectra at **(A)** st 28 (100m depth) and **(B)** st 35 (50 m depth) that were not used in the PARAFAC modeling.