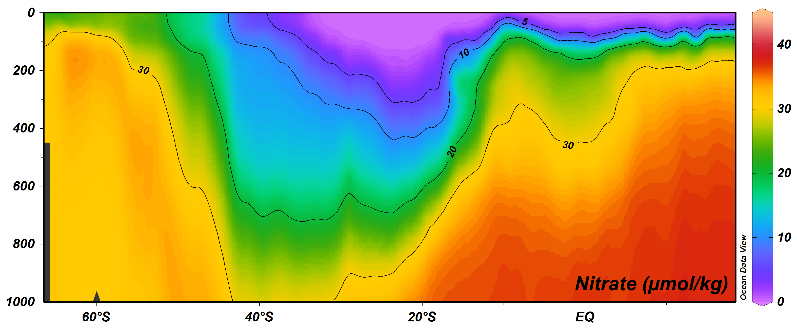
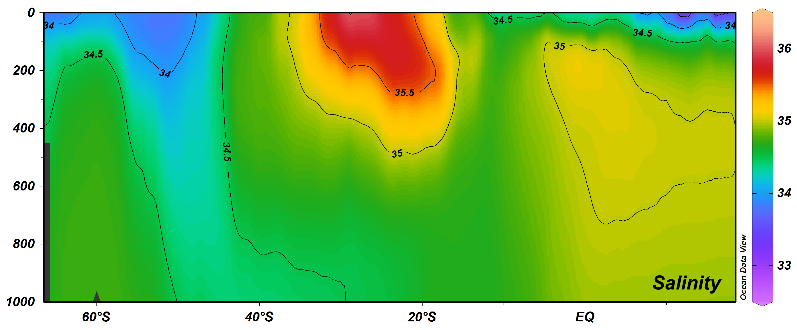
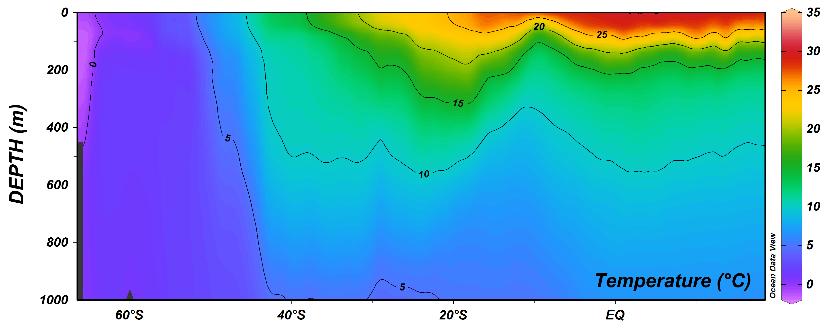
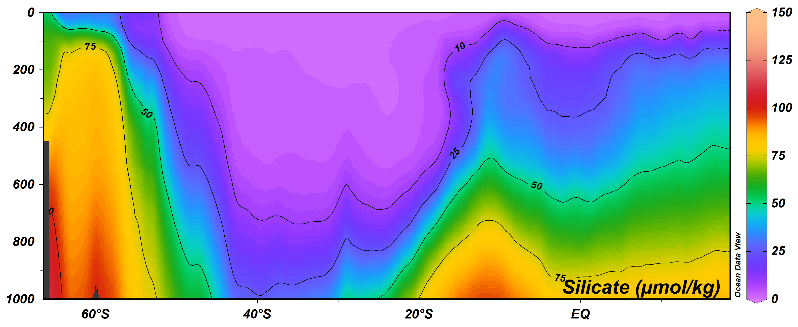
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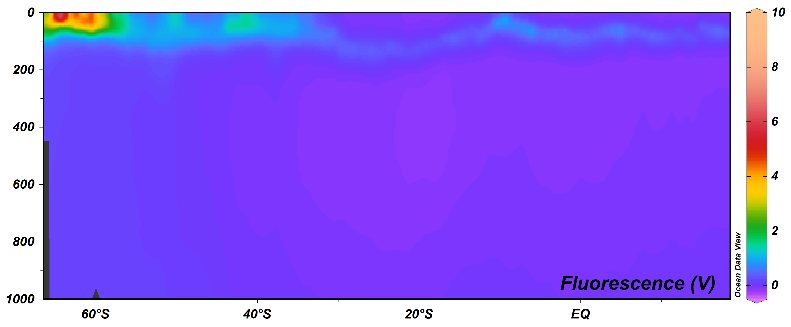
**Trace element composition of suspended particulate matter along three meridional CLIVAR sections in the Indian and Southern Oceans: Impact of scavenging on Al distributions**

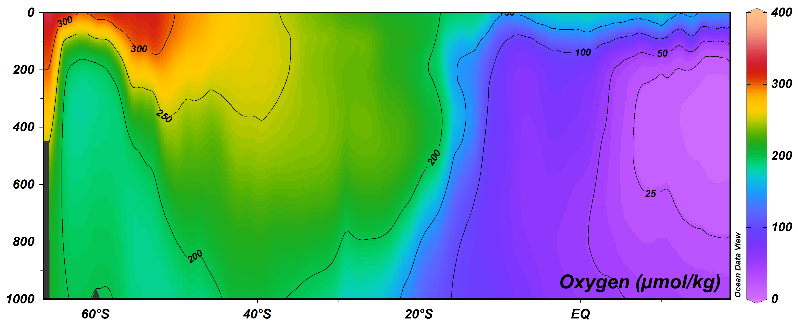
Pamela M. Barrett, Joseph A. Resing, Maxime M. Grand, Christopher I. Measures, William M. Landing



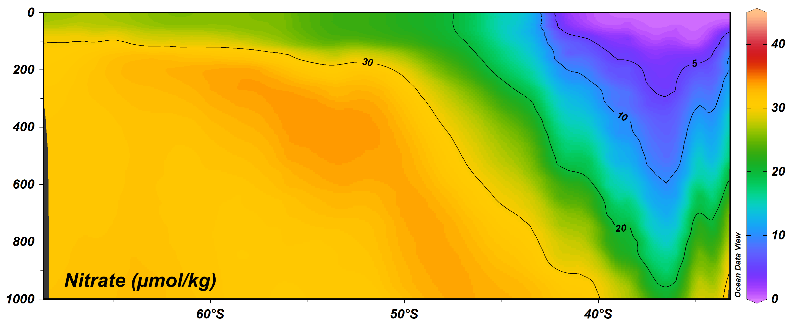
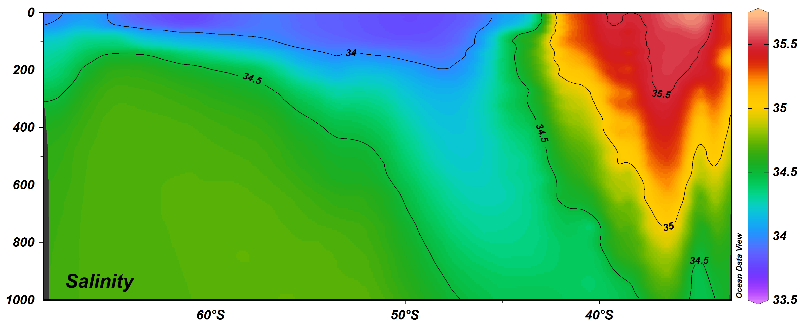


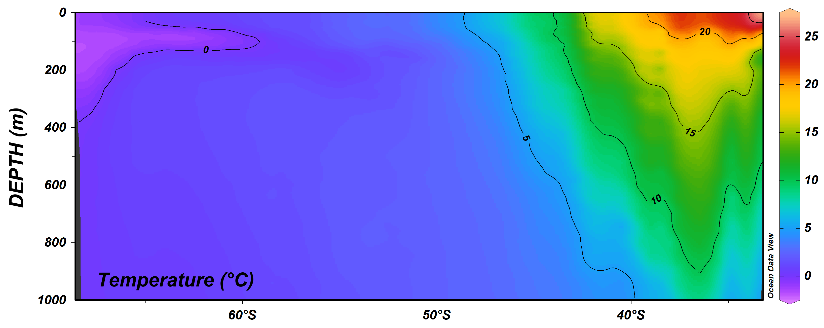


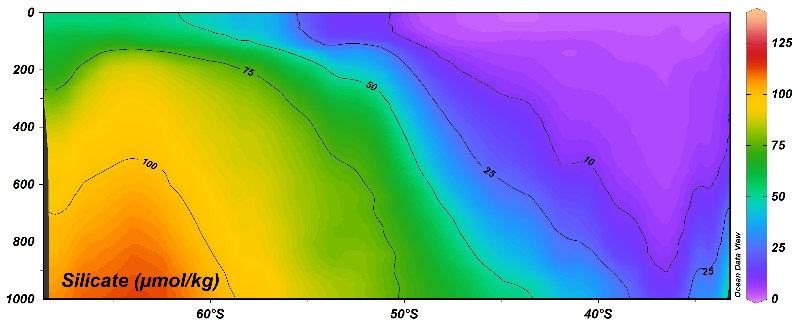


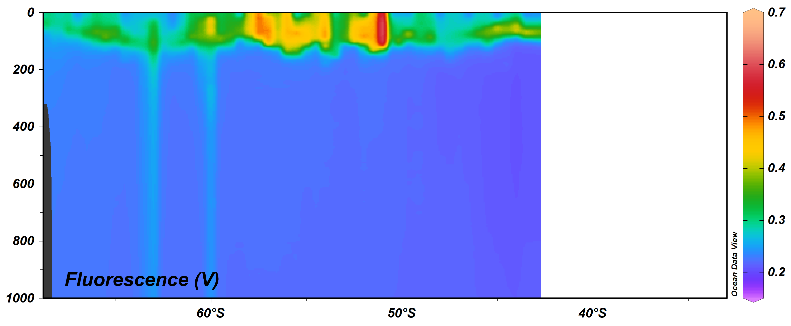


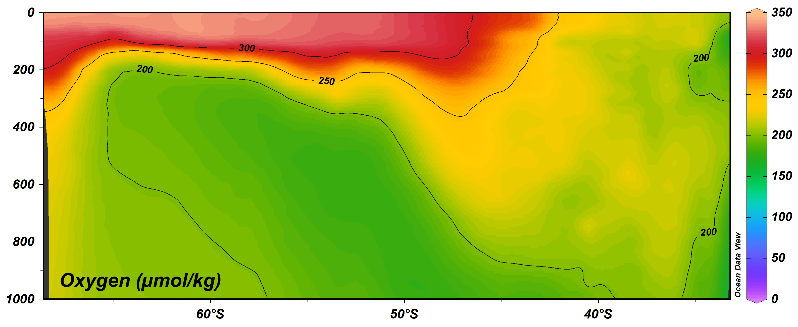
**Fig. S1.** Distribution of salinity, temperature (°C), dissolved oxygen (μmol kg-1), nitrate (μmol kg-1), silicate (μmol kg-1), and fluorescence (V) in the upper 1000 m along I09N/I08S.







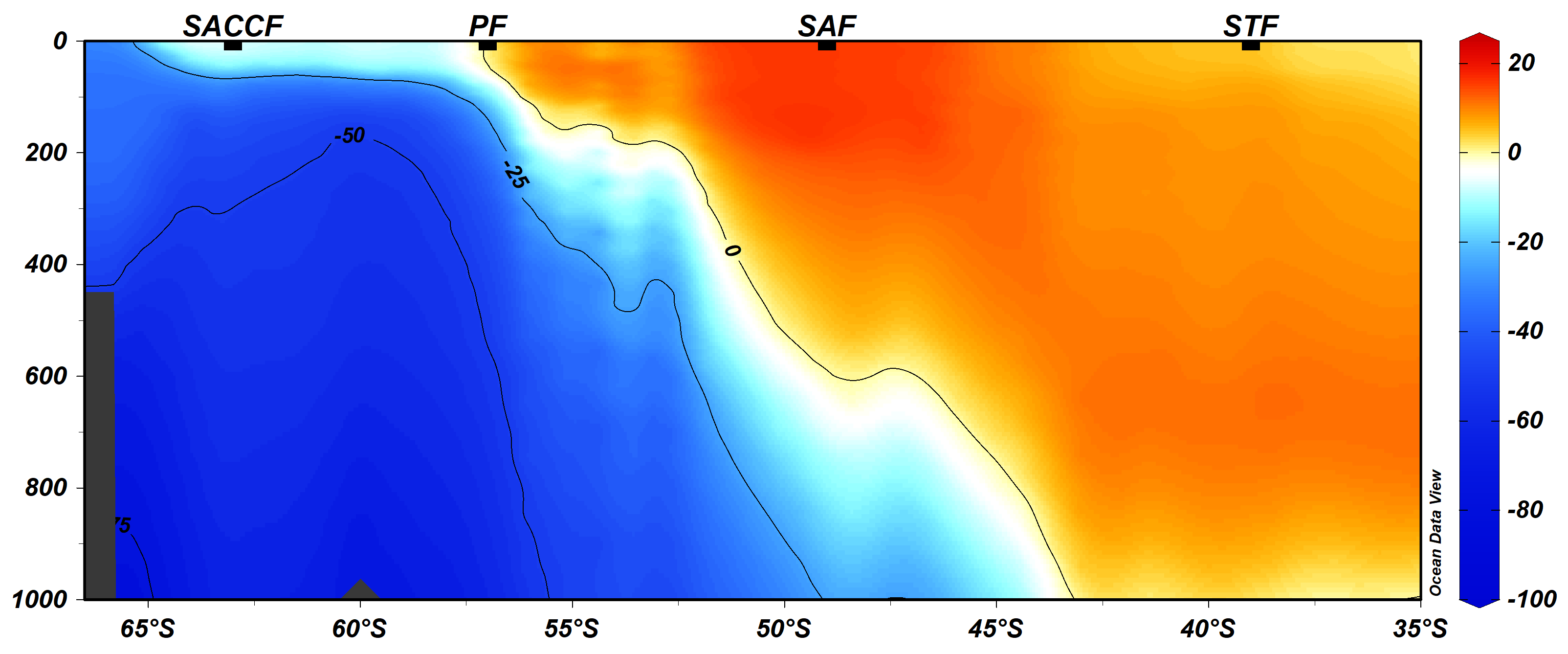




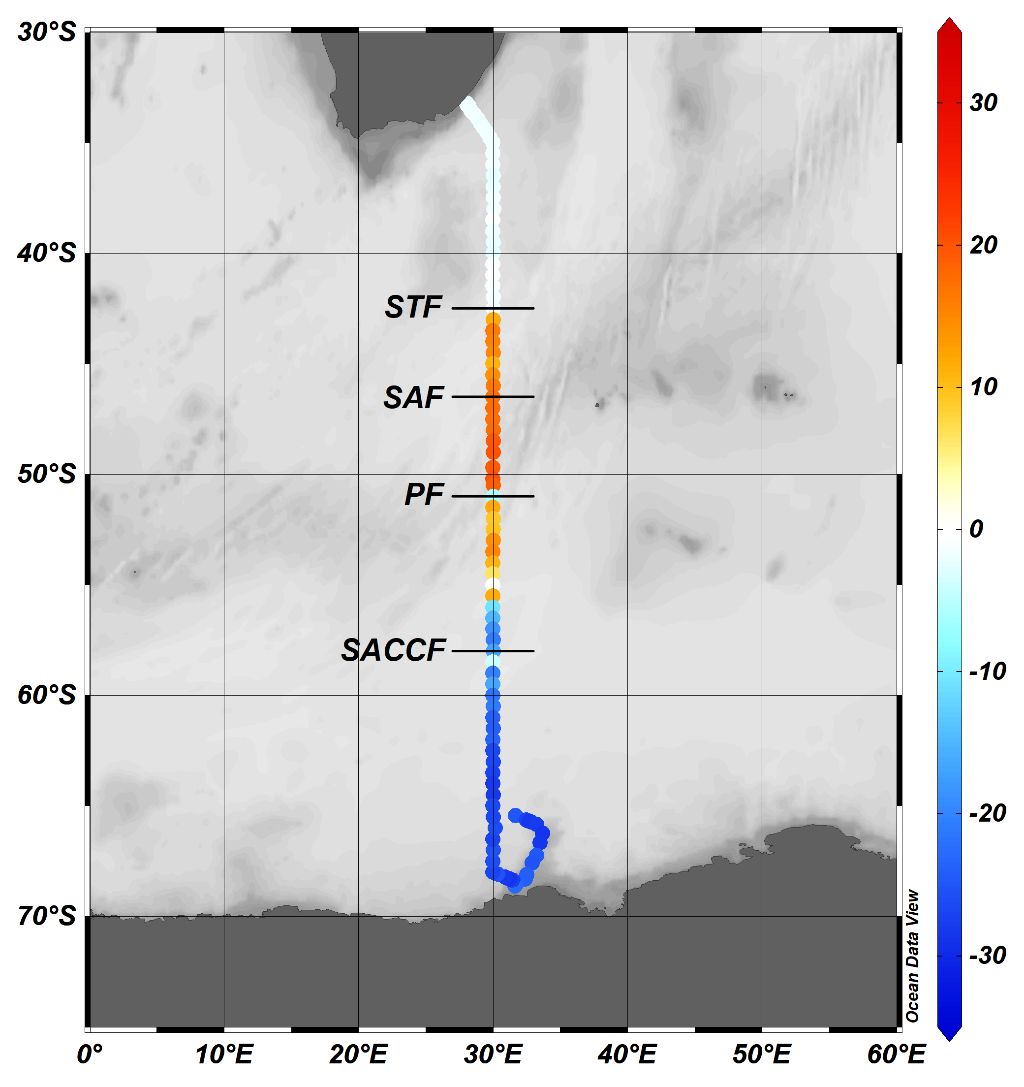
**Fig. S2.** Distribution of salinity, temperature (°C), dissolved oxygen (μmol kg-1), nitrate (μmol kg-1), silicate (μmol kg-1), and fluorescence (V) in the upper 1000 m along I06S. Fluorescence data is not reported for stations north of 43°N due to a malfunctioning fluorometer that was replaced mid-cruise.

**Fig. S3.** Particulate Al concentrations plotted against pSi in surface waters (<50 m) south of the Polar Front along CLIVAR section I09N/I08S (top); particulate Al concentrations plotted against pCa concentrations in surface waters (<50 m) between 28 and 44°S along CLIVAR section I08S (bottom).

**Fig. S4.** Particulate Al plotted against pSi concentrations in surface waters (<50 m) between 51 and 61°S along CLIVAR section I06S.



**Fig. S5.** Residual nitrate ([NO3] – [Si(OH)4]) in μmol kg-1 in the top 1000 m of the Indian sector of the Southern Ocean along CLIVAR I09N/I08S with approximate locations of Southern Ocean frontal zones: Subtropical Front (STF), Sub-Antarctic Front (SAF), Polar Front (PF), and South ACC Front (SACCF).



**Fig. S6.** Residual nitrate ([NO3] – [Si(OH)4]) in μmol kg-1 in surface waters along CLIVAR I06S with approximate locations of Southern Ocean frontal zones: Subtropical Front (STF), Sub-Antarctic Front (SAF), Polar Front (PF), and South ACC Front (SACCF).

**Fig. S7.** Vertical profile of dissolved Al along CLIVAR I06S at 48°S reported by *Grand et al.* [2015c]. Error bars represent reported measurement precision (3%).