



*Supplement of*

## **Seasonal cycling of zinc and cobalt in the south-eastern Atlantic along the GEOTRACES GA10 section**

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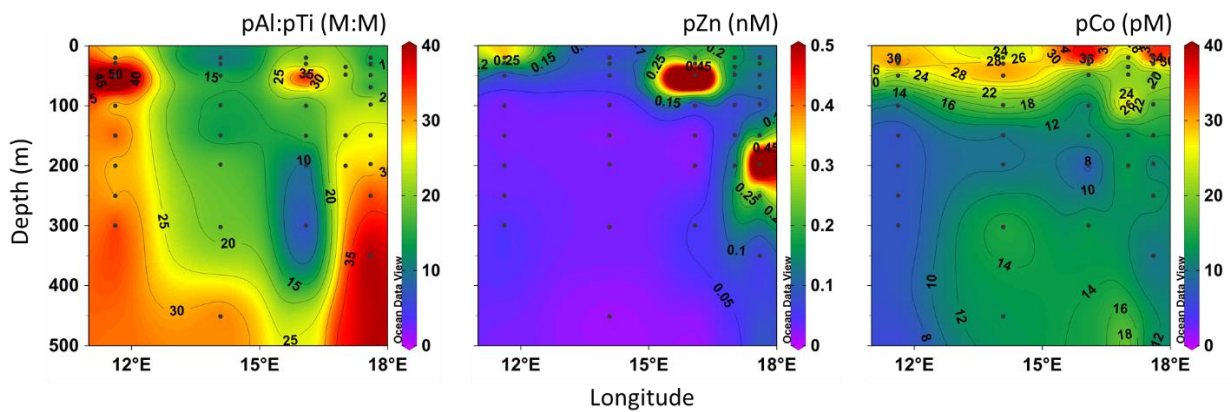
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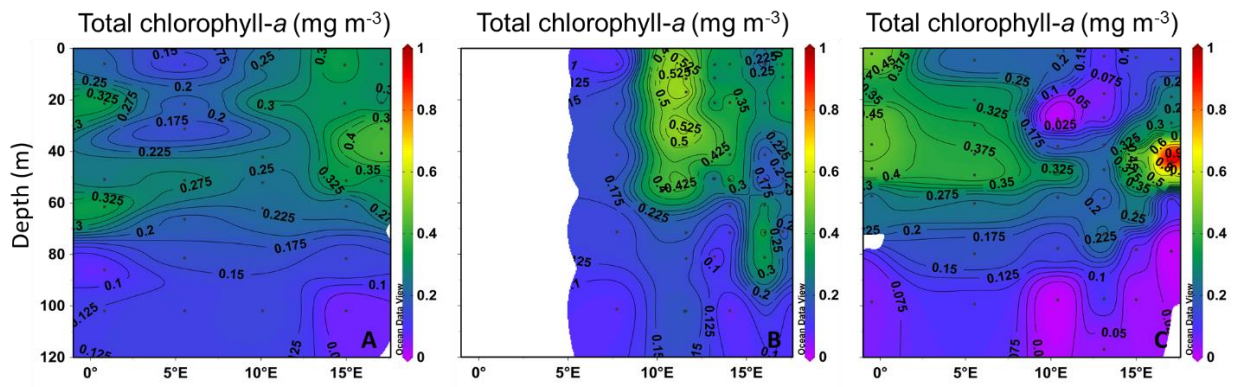
Supplement Table S1. Regression lines as depicted in Figure 4. SAMW was identified by Si\* (Sarmiento et al., 2004) with underlying AAIW located between 500 and 1750 m. Concentrations of dissolved Zn and Co are in nM and PO<sub>4</sub><sup>3-</sup> in μM. SAMW = Sub-Antarctic Mode Water, AAIW = Antarctic Intermediate Water.

Water mass	Transect	Equation dZn-PO <sub>4</sub> <sup>3-</sup> relationship	R <sup>2</sup>	n
SAMW	Early spring	dZn = 1.4 * PO <sub>4</sub> <sup>3-</sup> - 1.0	0.39	27
	Late spring	dZn = 1.4 * PO <sub>4</sub> <sup>3-</sup> - 0.8	0.67	44
	Summer	dZn = 1.1 * PO <sub>4</sub> <sup>3-</sup> - 0.7	0.54	30
AAIW	Early spring	dZn = 5.8 * PO <sub>4</sub> <sup>3-</sup> - 9.1	0.65	40
	Late spring	dZn = 4.4 * PO <sub>4</sub> <sup>3-</sup> - 6.1	0.60	21
	Summer	dZn = 5.9 * PO <sub>4</sub> <sup>3-</sup> - 9.4	0.43	19

Water mass	Transect	Equation dCo-PO <sub>4</sub> <sup>3-</sup> relationship	R <sup>2</sup>	n
SAMW+AAIW	Early spring	dCo = 12.6 * PO <sub>4</sub> <sup>3-</sup> + 28.4	0.42	55
	Late spring	dCo = 15.4 * PO <sub>4</sub> <sup>3-</sup> + 17.3	0.67	56
	Summer	dCo = 11.4 * PO <sub>4</sub> <sup>3-</sup> + 30.2	0.49	36



Supplement Figure S1. Upper 500 m distribution of particulate Al:Ti ratio alongside particulate Zn and Co between 11 and 18°E during the late spring (D357-2).



Supplement Figure S2. Upper 50 m distributions of total chlorophyll-*a* during the early spring (A; D357-1), late spring (B; D357-2) and summer (C; JC068) transects.