Supplement of

**Latitudinal variations in $\delta^{30}\text{Si}$ and $\delta^{15}\text{N}$ signatures along the Peruvian shelf: quantifying the effects of nutrient utilization versus denitrification over the past 600 years**

Kristin Doering et al.

*Correspondence to:* Kristin Doering (kristin.doering@dal.ca)

The copyright of individual parts of the supplement might differ from the CC BY 4.0 License.
Figure S1: Calculation of $\delta^{15}$NO$_3^-$ source signatures based on equations of the linear regression gained by the direct comparison of $\delta^{15}$N$_{\text{bulk}}$ versus $\delta^{30}$Si$_{\text{BSi}}$ for the LIA (humid; a-b), CWP (c-e), the LIA (arid; f-g) and. Black lines indicate the estimated linear regression. Dashed lines indicate the resulting 1:1 utilization line.