

*Global Biogeochemical Cycles*

Supporting Information for

**The Deep Ocean’s Carbon Exhaust**

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**Contents of this file**

Figures S1

**Introduction**

This Supporting Information includes Figure S1. It shows a sensitivity test of the estimated soft-tissue pump potential partial pressure of carbon-dioxide (∆PCO2soft) and residual ∆PCO2 (∆PCO2res) in the Pacific basin to different phosphate (PO4) reference values used in the calculation.



Figure S1. Sensitivity of the calculated zonal mean ∆PCO2soft (a, c, e) and ∆PCO2res (b,d,f) in the Pacific basin to different PO4 reference values. a,b, ∆PCO2 using the mean present day surface PO4 reference value of 0.47 µmol kg−1. c,d, ∆PCO2 using the PO4 reference value of 0.07 µmol kg−1 used by Gruber & Sarmiento (2002). e,f, ∆PCO2 using the PO4 reference value of 0.1 µmol kg−1 used in this study.

References

Gruber, N., & Sarmiento, J. L. (2002). Large-scale biogeochemical–physical interactions in elemental cycles. *Biological–Physical Interactions in the Sea,* A. R. Robinson, J. J. McCarthy, and B. J. Rothschild, Eds., *The Sea: Ideas and Observations on Progress in the Study of the Seas,* Vol. 12, John Wiley & Sons, 337–399.