

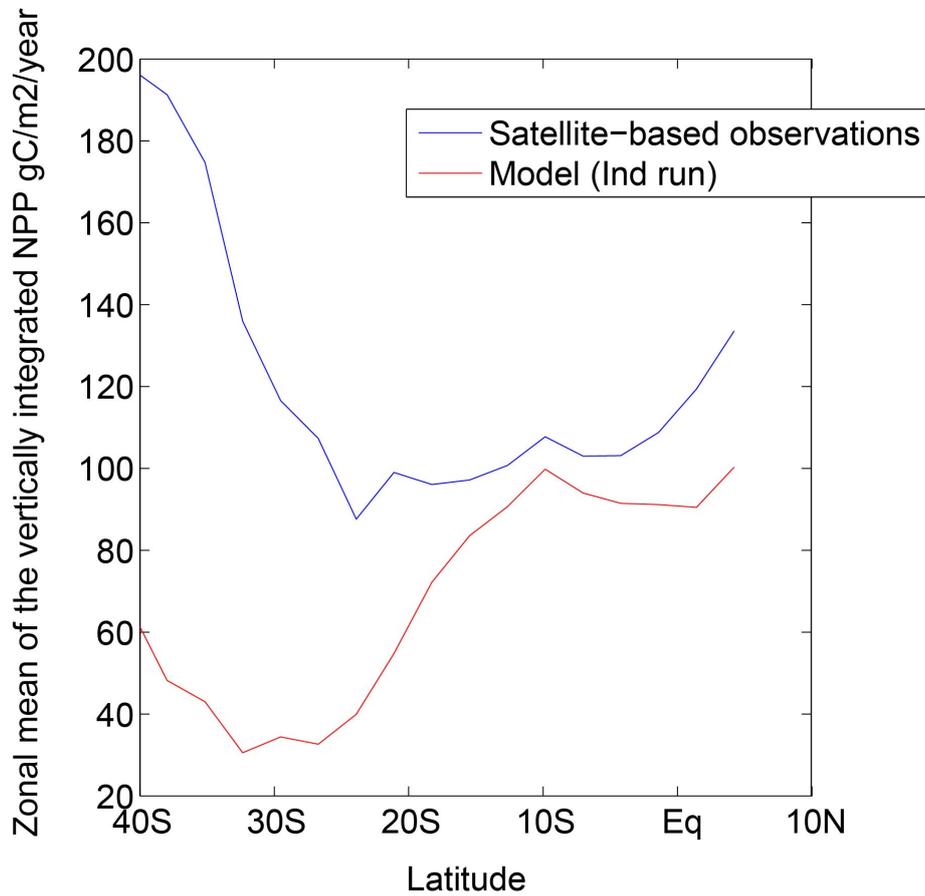
# Supporting Information for ”Anthropogenic iron and nitrogen deposition alters the ecosystem and carbon balance of the Southern Indian Ocean”

Anh L. D. Pham<sup>1</sup>and Takamitsu Ito<sup>1</sup>

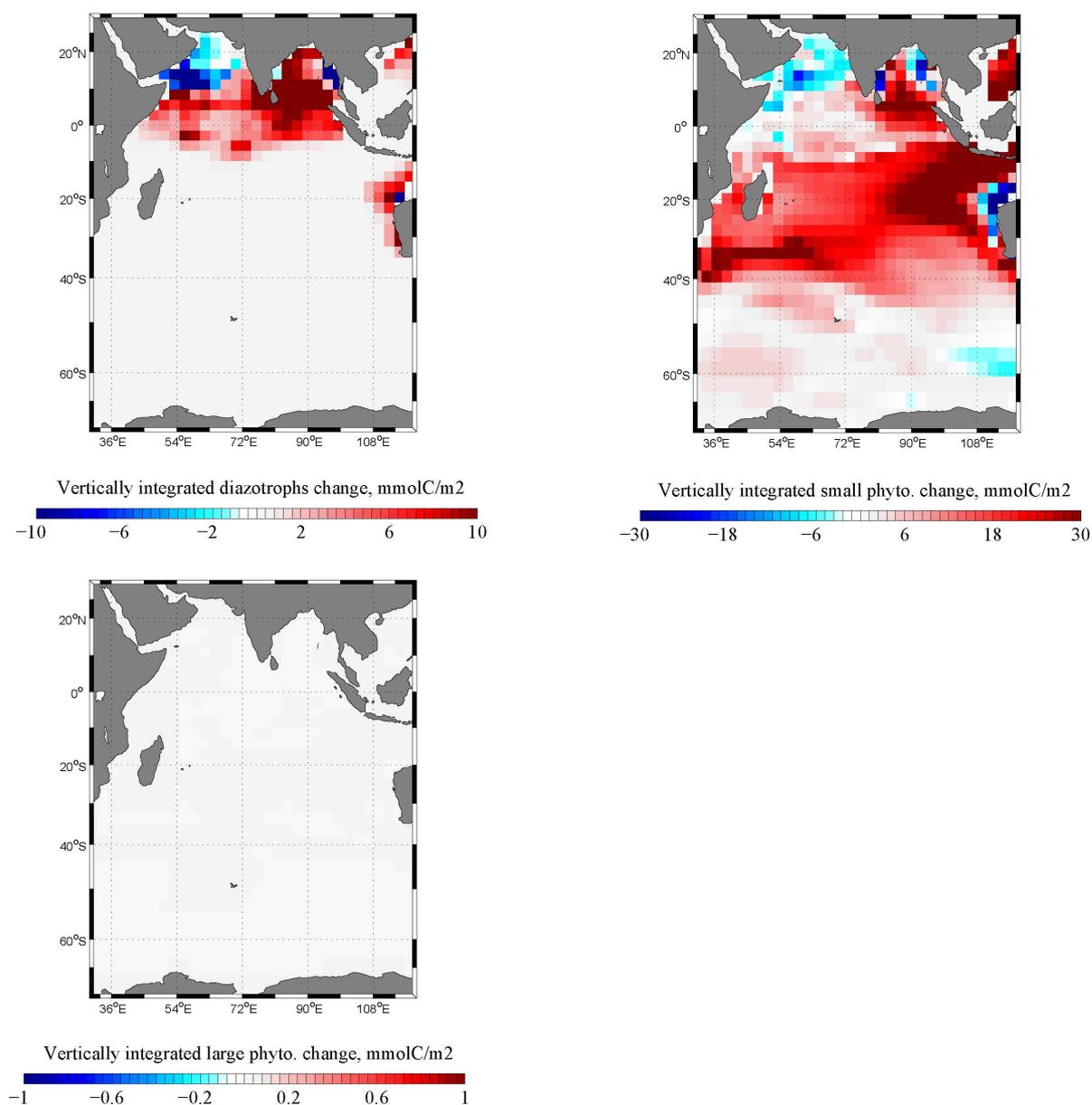
<sup>1</sup>School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta Georgia U.S.A.

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**Figure S1.** Zonal mean of the vertically integrated NPP in the Indian Ocean from satellite-based observations (blue line) (Behrenfeld & Falkowski, 1997) and from the model *Ind* run (red line). The high-resolution observational data is interpolated into the model grid to facilitate the comparison.



**Figure S2.** Vertically integrated phytoplankton concentration anomaly between the *Ind* and the *PreIn* runs. All phytoplankton biomass is measured in the units of P in the model. (a) *diazotrophs*, (b) small phytoplankton, and (c) large phytoplankton after 100 years of being forced under the anthropogenic N and Fe depositions.