

Supplement of Biogeosciences, 15, 4333–4352, 2018  
<https://doi.org/10.5194/bg-15-4333-2018-supplement>  
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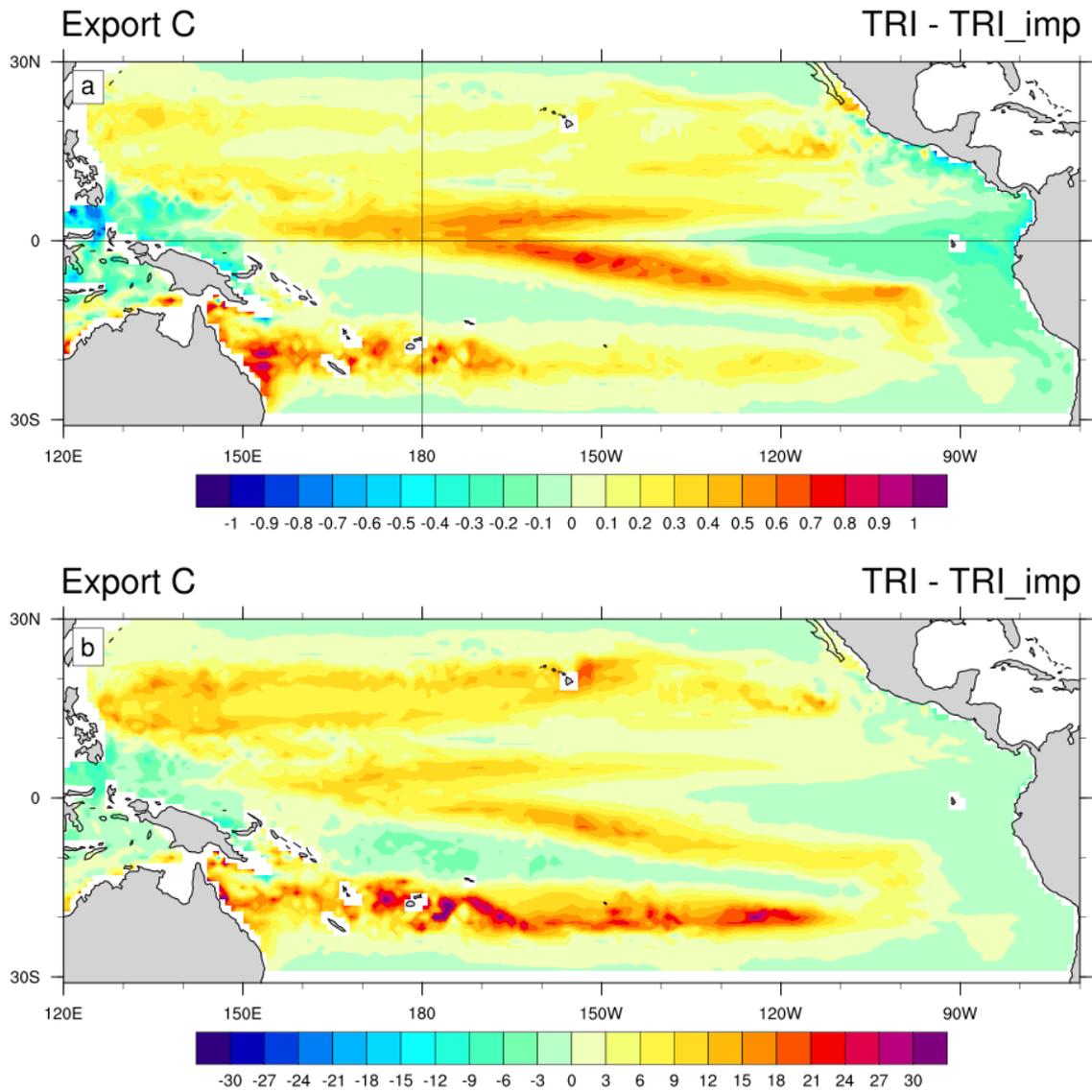
*Supplement of*

## **Modelling N<sub>2</sub> fixation related to *Trichodesmium* sp.: driving processes and impacts on primary production in the tropical Pacific Ocean**

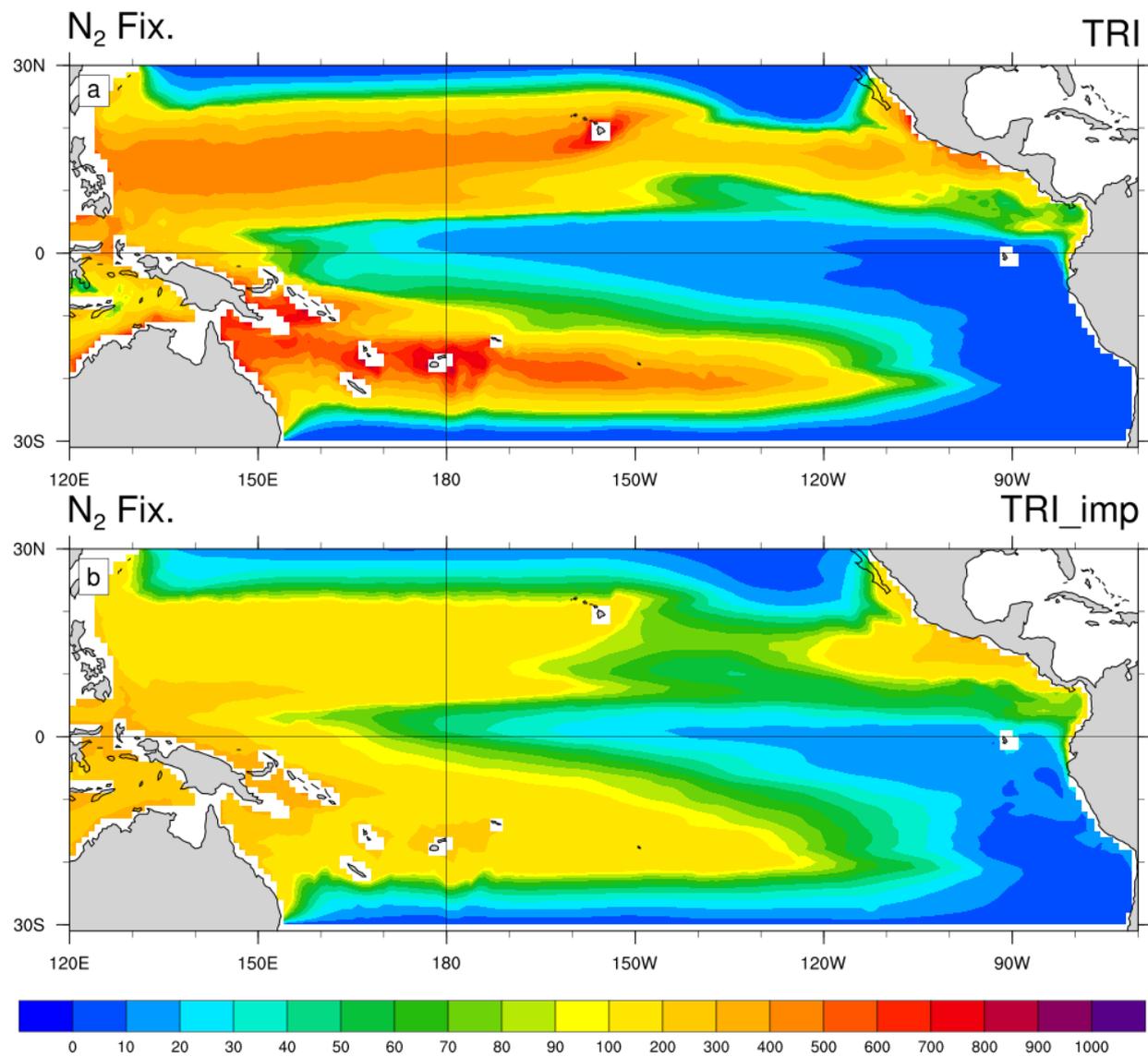
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**Supp. Figure 1.** Difference of carbon export fluxes at euphotic layer between TRI simulation and TRI\_imp simulation a) in mmol C.m<sup>-2</sup>.d<sup>-1</sup>, b) and in percentage.



**Supp. Figure 2.** Depth-integrated (from 0 to 150m) rates of  $N_2$  fixation (in  $\mu\text{mol N.m}^{-2}\text{.d}^{-1}$ ) in a) TRI simulation and b) TRI\_imp simulation.