

## ***Interactive comment on “The effect of light on N<sub>2</sub> fixation and net nitrogen release of field *Trichodesmium*” by Yangyang Lu et al.***

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From the perspective of a modeller with an interest in *Trichodesmium*, this is a useful paper. One reference you may have missed is Oliver et al. (2012). It would be interesting to see a comparison of the results in your manuscript with the results you'd expect given the energetic cost of nitrogen fixation versus nitrate uptake, and the energetic cost of chlorophyll production. Oliver et al. (2012) would be a useful resource to help make that comparison.

Oliver, R.L., Hamilton, D.P., Brookes, J.D. and Ganf, G.G., 2012. Physiology, blooms and prediction of planktonic cyanobacteria. In *Ecology of cyanobacteria II* (pp. 155-194). Springer Netherlands.

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