Growth yields and light-capture in PhycoCyanin and PhycoErythrin-rich picocyanobacteria, across photic regimes and growth phases

Sylwia Śliwińska-Wilczewska1,2, Marta Konik3,4, Mireille Savoie1, Anabella Aguilera5,6, Naaman M. Omar1, and Douglas A. Campbell1,\*

1 Department of Biology, Mount Allison University, 53 York St., Sackville, NB, E4L 1C9, Canada  
2 Institute of Oceanography, University of Gdansk, 46 Pilsudskiego St, P81-378, Gdynia, Poland  
3 Department of Geography, University of Victoria, Victoria, BC, V8P 5C2, Canada  
4 Institute of Oceanology, Polish Academy of Sciences, 81-712 Sopot, Poland  
5 Department of Biology and Environmental Science, Centre for Ecology and Evolution in Microbial Model Systems (EEMiS), Linnaeus University, Kalmar, Sweden  
6 Department of Aquatic Sciences and Assessment, Swedish University of Agricultural Sciences, Uppsala, Sweden (present address)

\* Correspondence: [Douglas A. Campbell <[dubhglascambeuil@gmail.com](mailto:dubhglascambeuil@gmail.com)>](mailto:dubhglascambeuil@gmail.com)