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Interactive comment on "Ecophysiological characteristics of red, green and brown strains of the Baltic picocyanobacterium *Synechococcus* sp. – a laboratory study" *by* Sylwia Śliwińska-Wilczewska et al.

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1. Please read with attention the text and the legends and be more precise in the description of the experiments and of the results. 2. It would be interesting to show in the supplementary material the photograph of the cultures together with the absorption spectra and the fluorescence spectra to be sure of the PUB presence in the brown cultures. 3. If I well understood you kept the cultures at the different condition combinations for 2 days for acclimation then you used these cultures as inoculum with an initial number of 106 cells ml-1 and the experiment lasted 1 week and at the end you made

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the measurement. In this way you calculate the growth not from a curve with different points but with a line from T0 to T7. I wonder why you did not sampled every day to have a better pattern of what happened in the cultures? 4. Why did you use so low flux (14 μl min-1) with Accuri C6? 5. I would appreciate to know the tresholds you used to count Pcy and the fluorescences you finally selected. 6. In general, the description of the methods should be improved and more detailed. I do not understand line 122-125 were you declare not to consider the cell number but the cell growth: please explain better this concept.

a revision for the language is necessary

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