

Interactive comment on “A red tide alga grown under ocean acidification up-regulates its tolerance to lower pH by increasing its photophysiological functions” by S.-W. Chen et al.

Anonymous Referee #1

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This paper provides interesting and useful information on the photosynthetic physiology of a red tide algal species, *Phaeocystis globosa*, to different pH levels induced by CO₂ enrichment. The authors suggested that that *P. globosa* is able to acclimate to seawater acidification by increasing its energy capture and decreasing its non-photochemical energy loss. This paper is given in a sufficiently clear way. The experiments were reasonably performed. The data analysis was satisfactory and the results were clearly presented. The figures and tables were all adequate. The authors discussed their results reasonably within a physiological and ecological context. The conclusions were justified. Therefore, in my opinion, this paper is acceptable for final publication in BIOGEOSCIENCES.

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