

## ***Interactive comment on “Changes in coccolith calcification under stable atmospheric CO<sub>2</sub>” by C. Bauke et al.***

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From my point of view, the method used by Bauke and colleagues to estimate the weight of coccoliths leads to incorrect weight estimates. In fact, all weight estimates using the method first reported by Beaufort (2005) appear to be incorrect and coccolith weights from different studies can not be compared with each other because of a flawed calibration method. Please find a detailed description of the basic problem in Bollmann (2013).

Some minor comments:

- The paper does not provide any information about size calibration, the precision/accuracy of the size measurements and error of the weight estimates.

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- How was the light intensity controlled and measured over time?

References

Bollmann, J.: Technical Note: Weight approximation of single coccoliths inferred from retardation estimates using a light microscope equipped with a circular polariser – (the CPR Method), *Biogeosciences Discuss.*, 10, 11155–11179, doi:10.5194/bgd-10-11155-2013, 2013.

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