

Interactive comment on “Technical note: Accelerate coccolith size separation via repeated centrifugation” by Hongrui Zhang et al.

Anonymous Referee #1

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Zhang, H., C. Kiu, L.M. Mejia and H. Stoll, Technical note: Accelerate coccolith size separation via repeated centrifugation.

I enjoyed to read your manuscript. The technological approach in this article is basically well prepared. I think that this article should publish soon after several correction.

Line 71: You assume that coccolith shape is spherical. But, most coccolith is flat and disc shape. Disc shape should sink down slowly through water column. Why do you assume that coccolith shape is spherical ? What is the difference between sphere and disc shape.

Supporting Information Line 4: Figure S1. *F. profunda* should be italic.

General comments: How do you estimate density of sediment particles / unit volume

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in water column ? High particle density should interfere each other.

Why don't you use flow cytometry method for separating small particles in water ?

Except for these comments and questions, this is an interesting paper.

Interactive comment on Biogeosciences Discuss., <https://doi.org/10.5194/bg-2020-341>, 2020.

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