

Interactive comment on “Diatoms Si Uptake Capacity Drives Carbon Export In Coastal Upwelling Systems” by F. Abrantes et al.

Anonymous Referee #2

Received and published: 18 March 2016

Under my point of view this work is supported by an important data set: 703 diatom samples, and also 200 sediment samples where TOC was analyzed. Authors also compare their data with other variables: Net primary production, phosphate, nitrate and silicate. This paper could be used an important tool for those researchers dealing with paleo-studies in diatom preservation versus productivity. Since authors deal with different concepts such as the sealing effect, the diatom and TOC diagenesis at bottom, upwelling intensity, primary production or nutrient availability vs diatom accumulation. the few technical corrections: Page 4, line 35: Figure 2 relates SCD/TOC, but author related it with silicid acid table 1: (review Galiza)

Interactive comment on Biogeosciences Discuss., doi:10.5194/bg-2015-517, 2016.