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Supplement of

Modified cleaning method for biomineralized components

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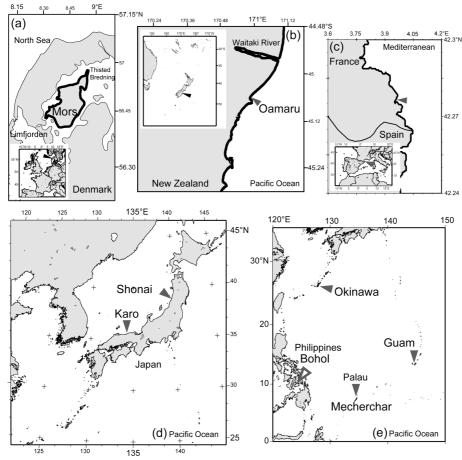


Fig. S1. Maps showing the locations of the diatom-bearing samples from (a) Mors Island in Denmark and (b) Oamaru in New Zealand; the holothurian sampling points in (c) France and (e) Okinawa, Bohol, and Guam; (d) the approximate locations where the sailfin sandfish were caught off the Shonai and Karo coasts in Japan; and (e) the fossil foraminifer sampling point in Mecherchar Jellyfish Lake, Mecherchar Island, Palau. All maps are based on Collaborative Research Center (SFB) 574, Volatiles and Fluids in Subduction Zones (http://sfb574.geomar.de/gmt-maps.html).

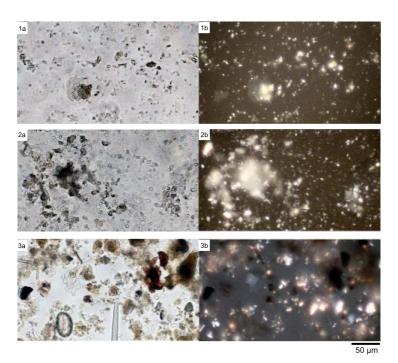


Plate S1. Photomicrographs of the water mounts of the untreated material. fig. 1a-b. Mors diatomite. Many coccoliths were observed in cross nicols. fig. 2a-b. Oamaru diatom-bearing sediment. fig. 3a-b. JFL sediments. figs 1a, 2a and 3a were taken in open nicols, while figs 1b, 2b, and 3b were taken in crossed nicols.

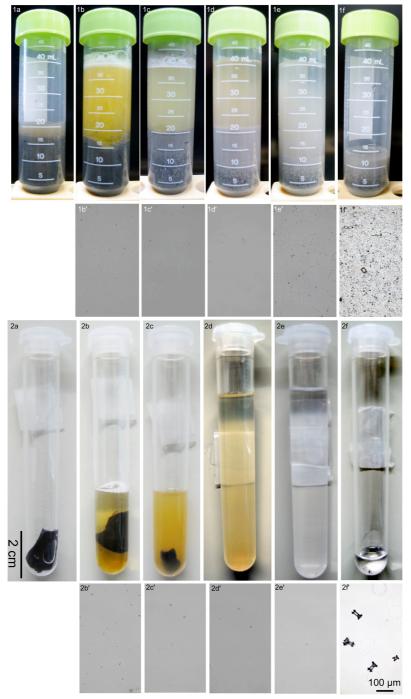


Plate S2. Step-by step process, showing the supernatant in the centrifuge tubes of the East China Sea sediment (figs. 1a-1f), sampled on 2nd August 2016 during the NS16-442 cruise of the T/S Nagasaki Maru, and of a specimen of *Holothuria leucospilota* (holothuria, sea cucumber), collected from Taketomi Island, Okinawa, Japan on 20th June 2015 (figs. 2a-2f). Photomicrographs of the discarded supernatant are shown for the sediment (figs. 1b'-1e') and for the holothurian (figs. 2b'-2e'). Also shown are photomicrographs of final pellet containing fossil diatoms in the sediment (fig. 1f') and ossicles of the holothurian (fig. 2f').