

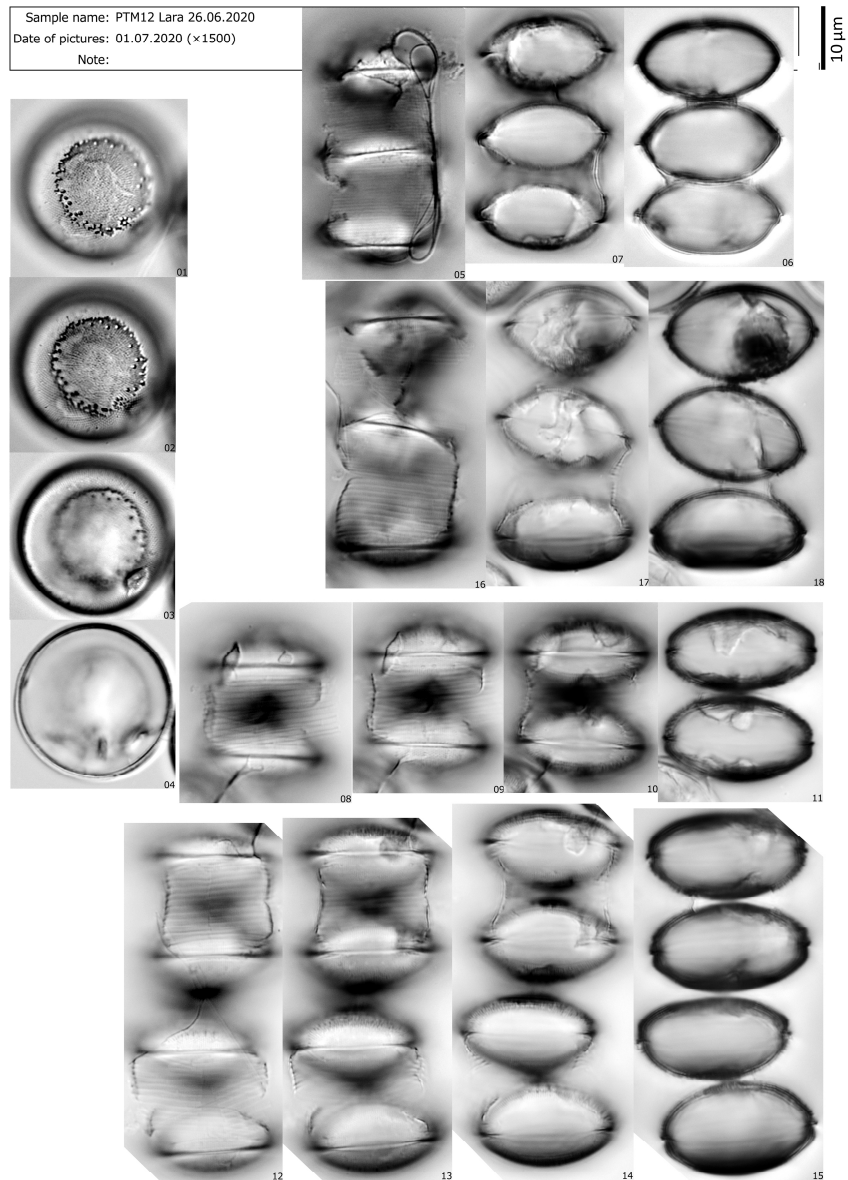


Figure S1. Identification plate with scanning electron microscopy images (by Kana Kuriyama) of the frustules of *Hyalodiscus scoticus*.

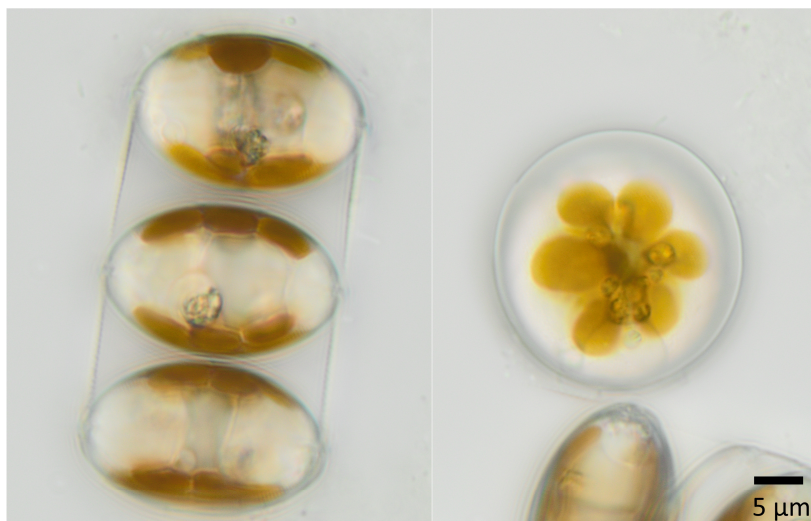


Figure S2. Light microscopy images of the vital cell *Hyalodiscus scoticus*.

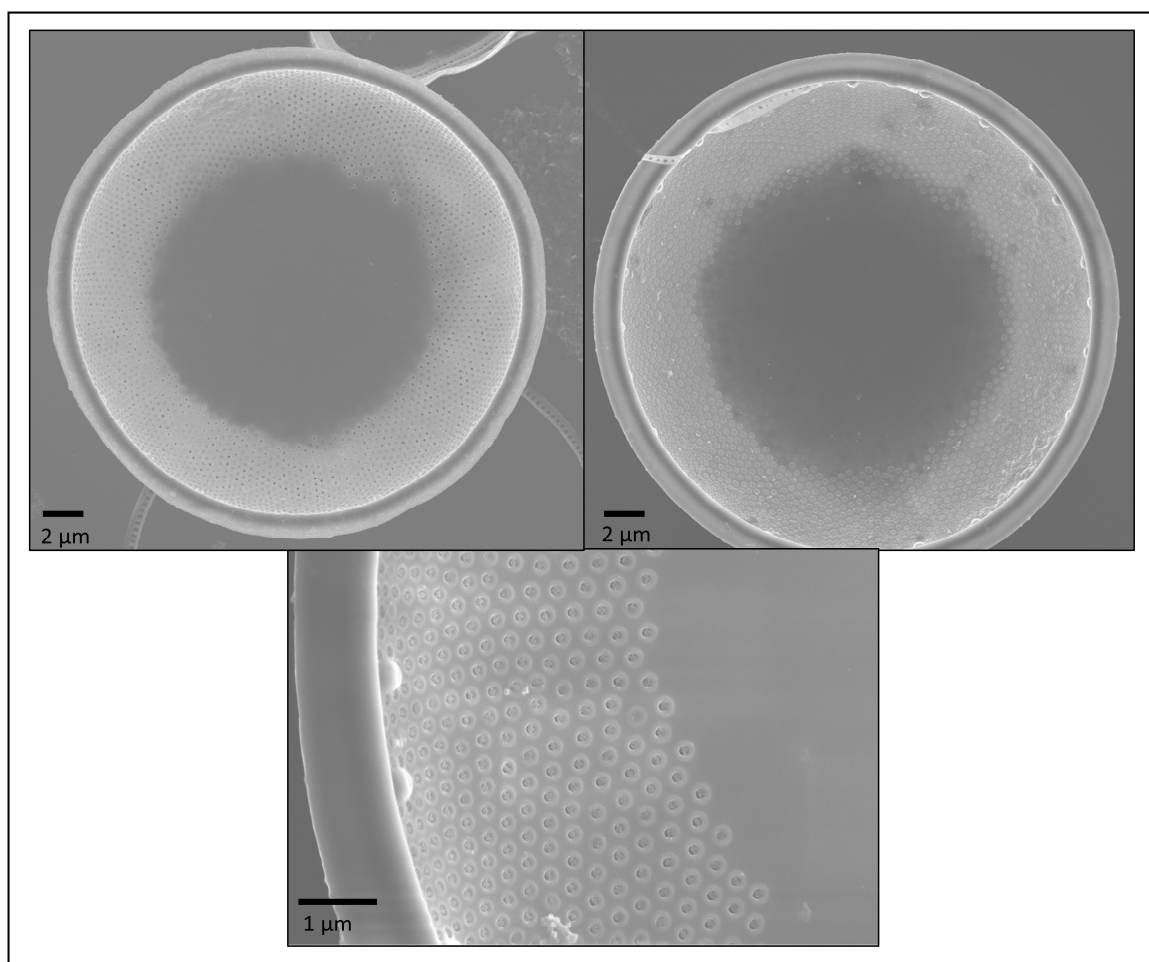


Figure S3. Scanning electron microscopy images of the frustules of *Hyalodiscus scoticus*.

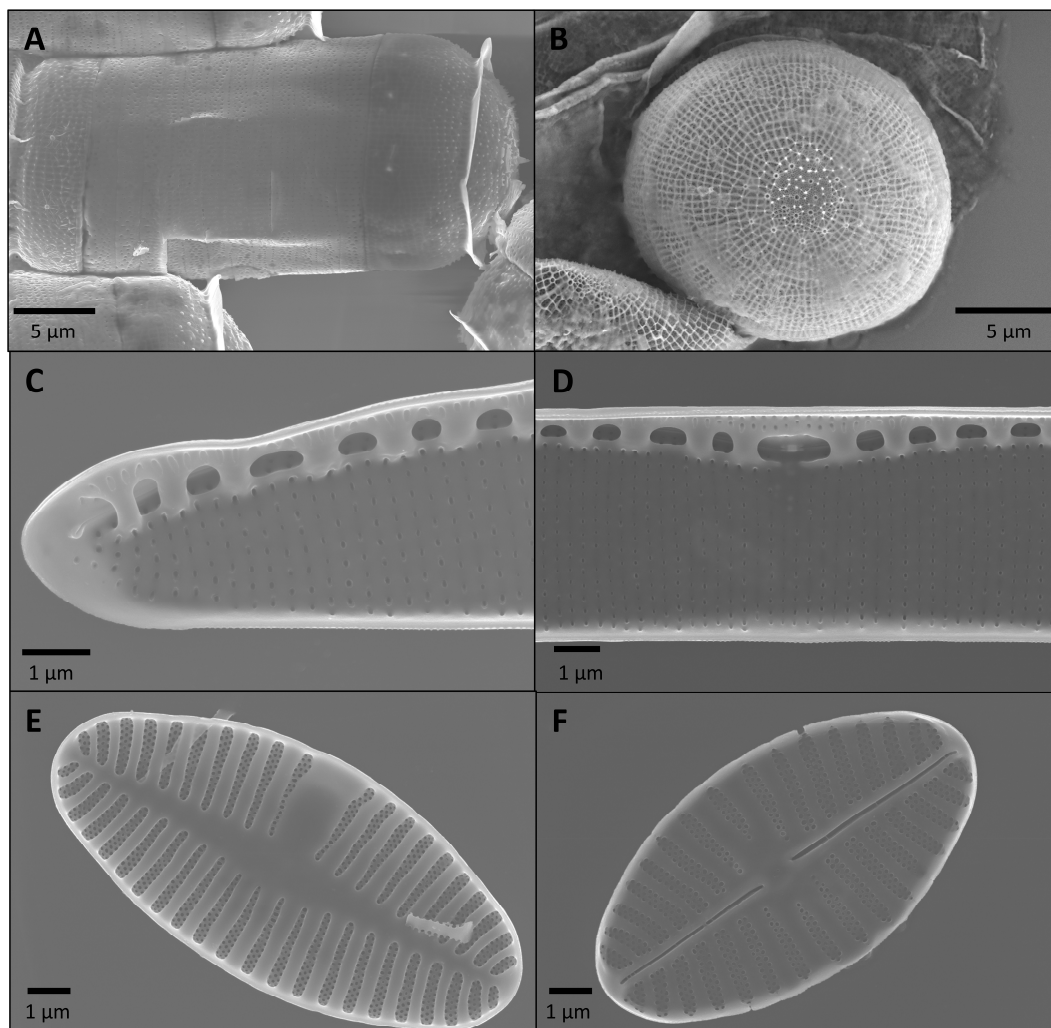


Figure S4. Scanning electron microscopy images of the frustules of (A), (B) *Melosira nummuloides*, (C), (D) *Nitzschia filiformis*, (E) *Planothidium* sp. (st. 1), (F) *Planothidium* sp. (st. 2).