

In this issue

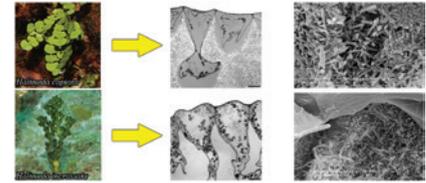
Katherine E. Peach, Marguerite S. Koch, Patricia L. Blackwelder, Debbie Guerrero-Given and Naomi Kamasawa

Primary utricle structure of six *Halimeda* species and potential relevance for ocean acidification tolerance

DOI 10.1515/bot-2016-0055
Botanica Marina 2017; 60(1): 1–11

Research article: Inter-species' differences in primary utricle morphology accounted for variability in mineral content and aragonite crystal forms that may contribute to species-specific responses to ocean acidification in the tropical calcifying macroalgal genus *Halimeda*.

Keywords: aragonite; diffusion pathway; *Halimeda*; microstructure; ultrastructure.

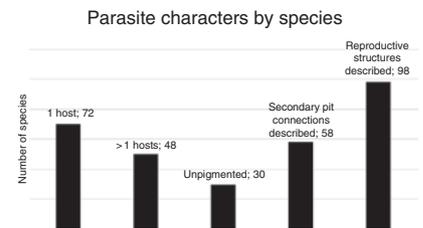


Maren Preuss, Wendy A. Nelson and Giuseppe C. Zuccarello
Red algal parasites: a synopsis of described species, their hosts, distinguishing characters and areas for continued research

DOI 10.1515/bot-2016-0044
Botanica Marina 2017; 60(1): 13–25

Research article: The first compilation of red algal parasites in over 30 years shows the current knowledge of all 120 species, described characters and distributions, and highlights the lack of data for many known parasites.

Keywords: biodiversity; development; host switching; parasitism; taxonomy.

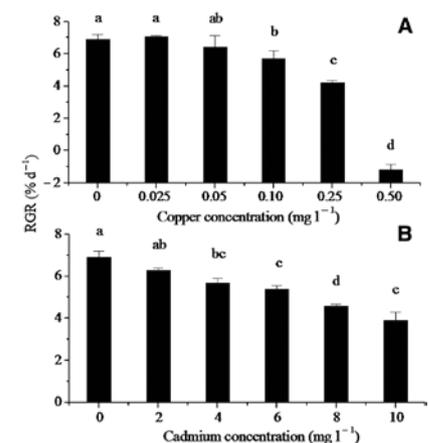


Xifeng Zhu, Dinghui Zou, Yanhua Huang, Junming Cao, Yuping Sun, Bing Chen and Xiaoying Chen
Physiological responses of *Porphyra haitanensis* (Rhodophyta) to copper and cadmium exposure

DOI 10.1515/bot-2016-0117
Botanica Marina 2017; 60(1): 27–37

Research article: The relative growth rate (RGR) of *Porphyra haitanensis* was significantly decreased at concentrations of copper ≥ 0.10 mg l⁻¹ or cadmium ≥ 4 mg l⁻¹, and copper was more toxic than cadmium.

Keywords: cadmium; copper; growth; photosynthesis; *Porphyra haitanensis*.

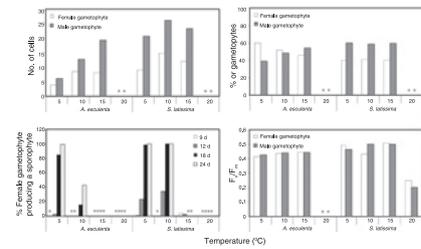


Jihae Park, Jang K. Kim, Jeong-Ae Kong, Stephen Depuydt, Murray T. Brown and Taejun Han
Implications of rising temperatures for gametophyte performance of two kelp species from Arctic waters

DOI 10.1515/bot-2016-0103
 Botanica Marina 2017; 60(1): 39–48

Research article: Global warming will raise summer temperatures for surface waters around Spitsbergen to about 10°C, but gametophytes of *Alaria esculenta* and *Saccharina latissima* will continue to survive, grow, and reproduce in the Arctic, even under the maximum warming predicted.

Keywords: *Alaria esculenta*; Arctic; climate warming; *Saccharina latissima*; temperature.

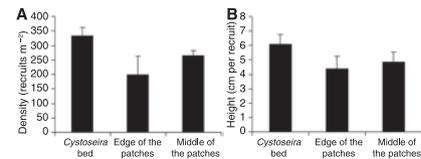


Luigi Piazzì, David Balata and Giulia Ceccherelli
Resilience of *Cystoseira* beds: lack of canopy effects on recruitment

DOI 10.1515/bot-2016-0088
 Botanica Marina 2017; 60(1): 49–53

Short communication: No significant differences were detected in the number of recruits of the habitat-forming seaweed *Cystoseira brachycarpa* var. *balearica* estimated in the middle and at the edge of cleared patches, and inside the bed on ceramic tiles anchored to the substrate.

Keywords: aquatic plant ecology; disturbance; Mediterranean Sea; plant-plant interactions; recruitment.

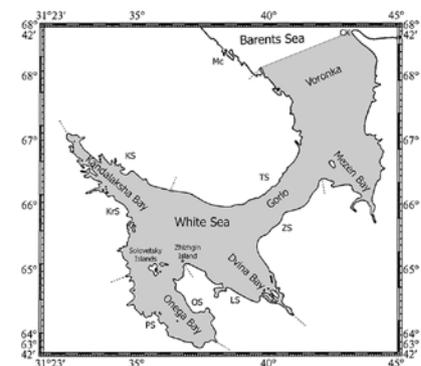


Tatiana A. Mikhaylova
Checklist of Rhodophyta of the White Sea (the Arctic Ocean)

DOI 10.1515/bot-2016-0060
 Botanica Marina 2017; 60(1): 55–65

Research article: A revised checklist of the Rhodophyta of the White Sea is presented with a critical analysis based on bibliographic searches and inspection of specimens; the White Sea Rhodophytan flora is compared with those of neighboring regions.

Keywords: bibliography; red algae; revised checklist; Sørensen similarity index; White Sea flora.

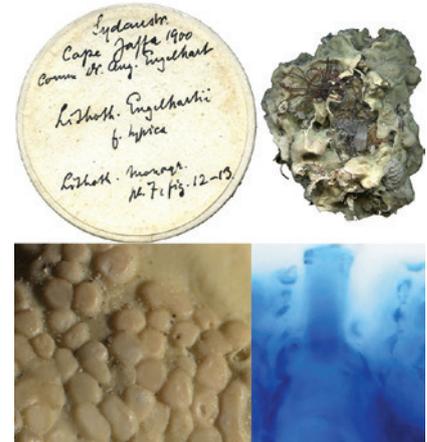


Athanasios Athanasiadis
**A study of the original material of
Lithothamnion engelhartii Foslie
 (Corallinales, Rhodophyta)**

DOI 10.1515/bot-2016-0110
 Botanica Marina 2017; 60(1): 67–78

Research article: The new lectotype of *Lithothamnion engelhartii* belongs to Mesophyllaceae. It forms unattached-superimposed lamellae (lacking perithallial protuberances and embedded conceptacles), where the hypothallium (coaxial to non-coaxial) prevails. Multiporate conceptacles develop conical to pyriform canals with basal cells that are three-dimensionally differentiated.

Keywords: foliose coralline algae; narrow hypothallial cells; pyriform canals.



Bruna S. Diniz, Mariângela Menezes
 and Silvia Mattos Nascimento
**Morphology of *Sinophysis microcephala*
 and *Sinophysis canaliculata* (Dinophyceae)
 from the South Atlantic Ocean**

DOI 10.1515/bot-2016-0123
 Botanica Marina 2017; 60(1): 79–83

Short communication: Two species of the benthic dinoflagellate *Sinophysis*, *Sinophysis microcephala* and *Sinophysis canaliculata* are registered for the first time from the South Atlantic Ocean. Samples were collected from four sites in Brazil between the latitudes of 8°23'S and 17°25'S.

Keywords: benthic dinoflagellates; morphospecies; *Sinophysis canaliculata*; *Sinophysis microcephala*; taxonomy.

