In this issue

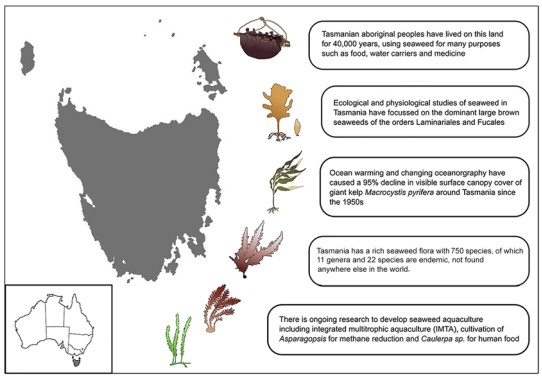
Catriona L. Hurd, Jeffrey T. Wright, Cayne Layton, Elisabeth M. A. Strain, Damon Britton, Wouter Visch, Neville Barrett, Scott Bennett, Kim Jye Lee Chang, Graham Edgar, J. Helen Fitton, Dean Greeno, Ian Jameson, Craig R. Johnson, Sam S. Karpiniec, Gerald T. Kraft, Scott D. Ling, Catriona M. Macleod, Ellie R. Paine, Ahyoung Park, J. Craig Sanderson, Matthias Schmid, Fiona J. Scott, Victor Shelamoff, Damien N. Stringer, Masa Tatsumi, Camille A. White and Anusuya Willis

From Tasmania to the world: long and strong traditions in seaweed use, research, and development

https://doi.org/10.1515/bot-2022-0061
Botanica Marina 2023; 66(1): 1–36

Review: Tasmania has a long and rich history of seaweed use, research and development beginning over 40,000 years ago with Tasmanian Aboriginal peoples, but much is left to understand about this diverse flora particularly taxonomy, physiology and responses to climate change.

Keywords: aquaculture; Australia; ecology; ocean global change; physiology; seaweeds; taxonomy.



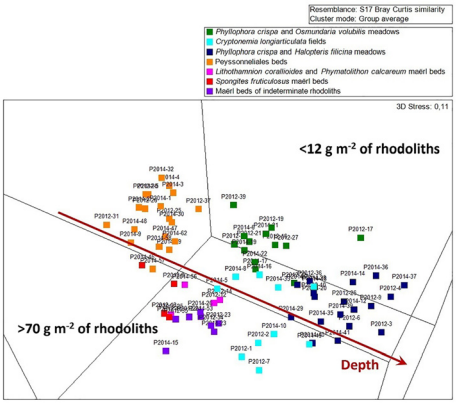
Sergi Joher, Sergi Martínez and Conxi Rodríguez-Prieto

Bionomic study of the detritic bottoms dominated by macroalgae from the southern coast of Mallorca (Balearic Islands)

https://doi.org/10.1515/bot-2022-0043
Botanica Marina 2023; 66(1): 37–51

Research Article: Bionomic study of the detritic bottoms dominated by macroalgae from the south of Mallorca (Balearic Islands, Western Mediterranean), including a quantitative description of the algal communities in the area, their bathymetric and geographical distribution, and main features driving this distribution.

Keywords: Balearic Islands; coastal detritic bottoms; distribution; macroalgae; rhodoliths; Western Mediterranean.



Anna V. Skriptsova, Svetlana Yu. Shibneva and Alexander A. Semenchenko

Evidence for the reinstatement of *Kallymeniopsis* and the merger of the family Crossocarpaceae within the family Kallymeniaceae (Rhodophyta)

https://doi.org/10.1515/bot-2022-0032
Botanica Marina 2023; 66(1): 53–66

Research Article: Based on phylogenetic and morphological data it is proposed to revive the genus *Kallymeniopsis* and keep *Crossocarpus* and *Beringia* as separate genera, as well as completely eliminate the family Crossocarpaceae.

Keywords: Gigartinales; phylogeny; Rhodophyta; Russian Pacific; systematics.

Luis Castro-Cera, Darío Vega-Díaz, Ruth S. Eriksen, Karine Leblanc and Gustaaf M. Hallegraeff

New observations on the rarely reported tropical dinoflagellates *Tripos lanceolatus* and *T. schroeteri* from the Colombian Caribbean, South Pacific and Indian Oceans

https://doi.org/10.1515/bot-2022-0050
Botanica Marina 2023; 66(1): 67–72

Short Communication: We provide new observations and new distribution records on the rare tropical dinoflagellates *Tripos lanceolatus* and *Tripos schroeteri* from Caribbean, South Pacific and Indian Oceans.

Keywords: biodiversity; phytoplankton; taxonomy; *Tripos digitatus*; *Tripos lanceolatus*; *Tripos schroeteri*.

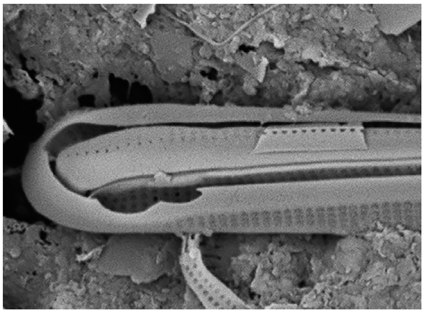
Christopher S. Lobban

***Nitzschia venerata*, sp. nov., a simulacrum for the conopeate, tube-dwelling diatom *Nitzschia martiana*, has scuta not conopea: a case of convergent evolution?**

https://doi.org/10.1515/bot-2022-0063
Botanica Marina 2023; 66(1): 73–79

Research Article: *Nitzschia venerata*, sp. nov., is a surprising look-alike to cells of the well-known tube-dwelling diatom *Homeocladia (Nitzschia) martiana* with scuta rather than conopea; scientists identifying potential *H. martiana* should be alert to the possibility that they have *N. venerata*.

Keywords: coral reefs; diatom biodiversity; *Nitzschia macera*; scutum; simulacrum species; tube-dwelling diatoms.



Shinya Uwai, Satomi Takagi, Takuma Sekiguchi, Nozomi Emura, Teruwo Morita, Akira Kurashima and Yoichi Sato

Inconsistency between morphological diversity and genetic structuring: proposal for one species of *Undaria* in Japan

https://doi.org/10.1515/bot-2022-0048
Botanica Marina 2023; 66(1): 81–90

Research Article: Genetic structure and gene flow among Japanese *Undaria* populations were analyzed. Although five geographic clusters were recognized, they do not match the three morphospecies traditionally recognized.

Keywords: isolation-by-distance; microsatellite; phaeophyceae; population structure; species boundaries.