



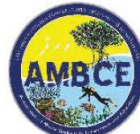
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Fantastic Seaweeds and Where to Find Them (in Thailand)

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ABSTRACT

Recent explorations in Thai waters have resulted in the discovery of red algae that represents new records for the Thai seaweed flora, including species putatively new to science. Preliminary identifications are primarily based on newly generated DNA-sequence data (COI, rbcL, rDNA LSU, UPA) that were compared to genetic sequences in public databases and unpublished datasets. New genus records for Thailand include the genera *Cryptocallis* and *Sebdenia* (Sebdeniaceae, Sebdeniales), *Agissea*, *Brasilophycus* and *Incendia* (Peyssonneliaceae, Peyssonneliales), *Dipterocladia* (Delesseriaceae, Ceramiales), *Dudresnaya* (Dumontiaceae, Gigartinales), *Grateloupia* and *Yonagunia* (Grateloupiaceae, Halymeniales), and *Predaea* (Nemastomataceae, Nemastomatales). New species records for previously reported genera in Thailand were found in the genera *Dissimularia* (Chondrymeniaceae, Gigartinales), *Halymenia* (Halymeniaceae, Halymeniales), *Renouxia* and *Rhodogorgon* (Rhodogorgonaceae, Rhodogorgonales), *Titanophora* (Schizymeniaceae, Nemastomatales), and possibly *Halichrysis* (Rhodymeniaceae, Rhodymeniales). The new records in *Dipterocladia*, *Halymenia*, *Rhodogorgon*, and Peyssonneliaceae may represent undescribed species. Naming the *Titanophora* and *Predaea* species remains a challenge. It is not clear whether the recent new records represent recent arrivals or that these taxa have been overlooked in earlier surveys. It is possible that some taxa were previously recorded under a misapplied name

Keywords: diversity, DNA barcoding, molecular systematics, new species, Rhodophyta

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