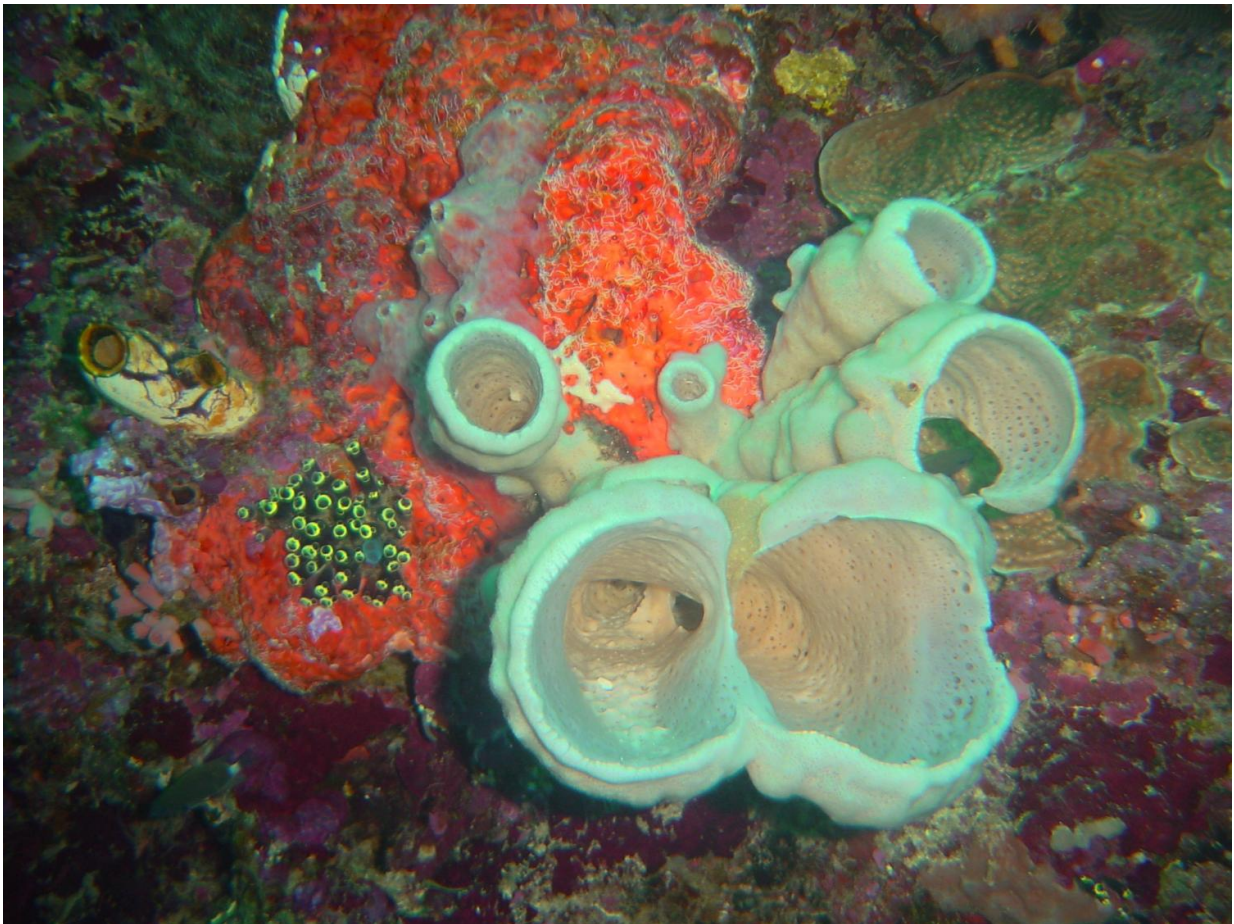


Six new sponge species and new symbiotic associations from the Indonesian coral triangle

September 18 2017



Three of the recorded sponge species (*Niphates olemda*, *Tedania coralliophila* and *Agelas nakamurai*) in the Bunaken National Marine Park. Credit: Dr Carlo Cerrano

Comprising more than 17,000 islands, the Indonesian archipelago is one of the world's most biodiverse places on Earth.

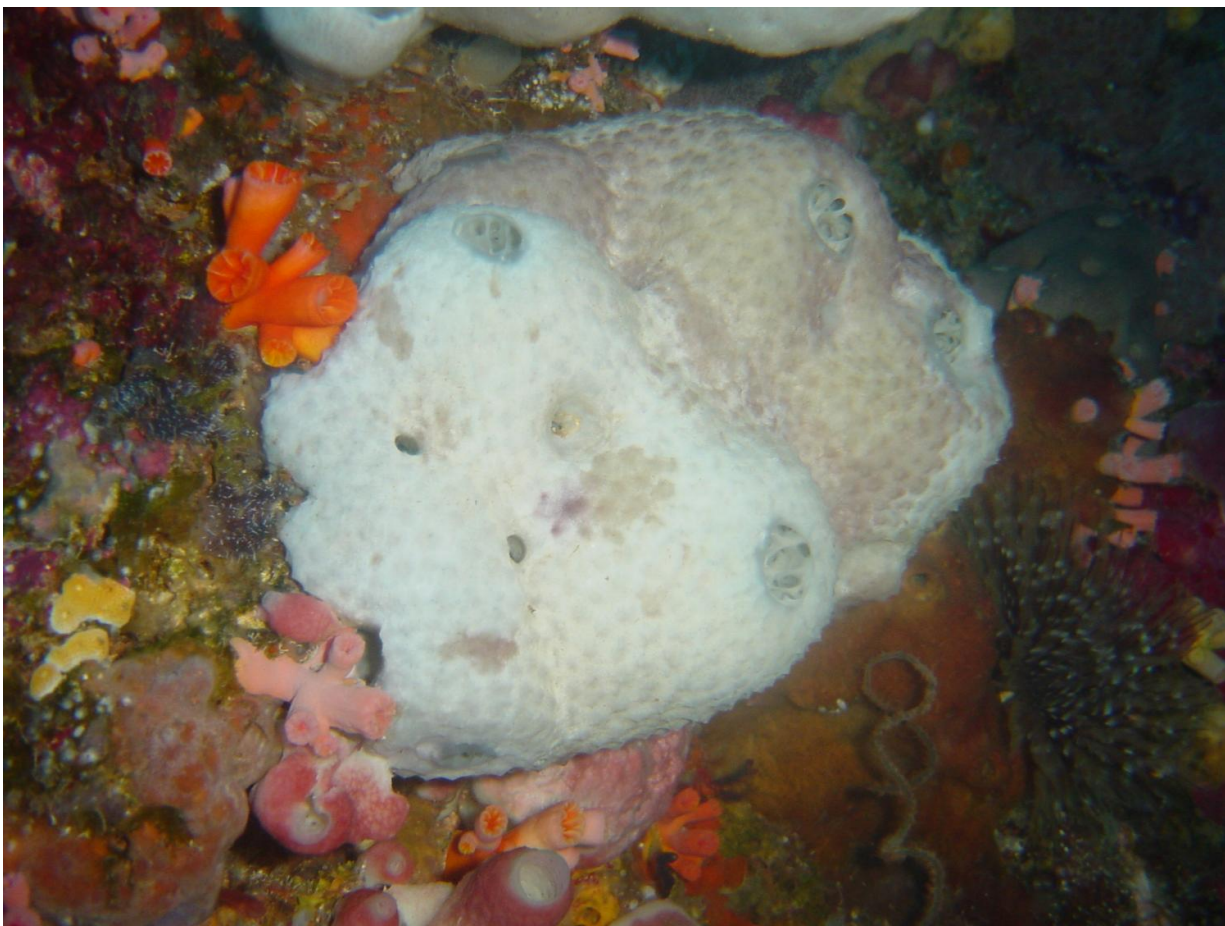
Sponges, [aquatic organisms](#) whose bodies consist of numerous pores to allow the ingress of water, are key components of this richness and play a fundamental role in the survival of coral reef habitats. Furthermore, they are also known for their medicinal benefits.

Unfortunately, due to the paucity of taxonomic expertise, the sponges from the Indonesian reefs are often ignored in monitoring surveys and conservation programmes, while their diversity is largely underestimated.

Researchers from the Italian Università Politecnica delle Marche and Università degli Studi di Genova, PharmaMar, Spain, and University of Sam Ratulangi, Indonesia, describe six new species in their paper in the open access journal, *ZooKeys*.

Inspired by their extraordinary biodiversity, the researchers teamed up with the pharmaceutical company PharmaMar to conduct several expeditions in the waters of North Sulawesi Island.

The authors reported a total of 94 demosponge species belonging to 33 families living in the North Sulawesi Island. Amongst them, there are six species new to science and two previously unknown symbiotic relationships.



One of the new sponge species, *Psammocinia alba*. Credit: Dr Carlo Cerrano

Seven of the recorded [species](#) were collected for the very first time since their original description.

However, these findings are still scarce, given the abundance of the [sponges](#) in similar localities in the Indonesian archipelago.

In conclusion, the authors note that the marine diversity in Indonesia is still far from being well known.

"Thanks to this impressive [diversity](#), these areas are important spots for diving tourism and require the urgent development of sustainable tourism practices," they say.

More information: Barbara Calcinai et al, Demosponge diversity from North Sulawesi, with the description of six new species, *ZooKeys* (2017). [DOI: 10.3897/zookeys.680.12135](https://doi.org/10.3897/zookeys.680.12135)

Provided by Pensoft Publishers

Citation: Six new sponge species and new symbiotic associations from the Indonesian coral triangle (2017, September 18) retrieved 9 April 2024 from <https://phys.org/news/2017-09-sponge-species-symbiotic-associations-indonesian.html>

| |
|--|
| <p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p> |
|--|