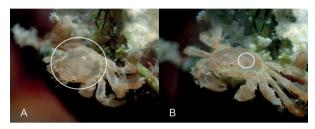
SPIXIANA	47	1	34	München, Dezember 2024	ISSN 0341-8391
----------	----	---	----	------------------------	----------------

Scientific note

## First record of *Pinnotheres bicristatus* García Raso & Cuesta, 2019 from the Adriatic Sea

(Decapoda, Pinnotheridae)

Borut Mavrič & Al Vrezec



**Fig. 1.** Specimen of *Pinnotheres bicristatus* found in Fiesa (Gulf of Trieste) showing two specific morphological features marked with white circles: **A.** the colour pattern on the carapax; **B.** tufts of short, curved setae positioned on dorsoanterolateral carapace region (photo: Irena Frkovič).

Pinnotheres bicristatus García Raso & Cuesta in Cuesta, García Raso, Abelló, Marco-Herrero, Silva & Drake, 2019 is a species of a pea crab belonging to the genus *Pinnotheres* Bosc, 1801. The genus contains around 30 valid species of pea crabs according to WoRMS, of which 3 are recorded in European waters. Only two species were so far confirmed for the Mediterranean Sea, *P. pisum* and *P. bicristatus*, the first being a well-known and widespread species and the second newly described (Becker & Türkay 2010, Cuesta et al. 2019).

*Pinnotheres bicristatus*' first known record comes from 1994 offshore the Barbate coast, with additional findings in the following years in catches of various research cruises and surveys from the Atlantic and Mediterranean coasts of Andalusia (South of Iberian Peninsula). The species was collected in larval stages and in adult form. The adults were found to mainly occur in the common saddle oyster, *Anomia ephippium*, but few were found also in the flat oyster, *Ostrea edulis*, which were collected between 11 and 71 m depth (Cuesta et al. 2019, Marco-Herrero et al. 2020).

On 5<sup>th</sup> September 2021 a specimen of *Pinnotheres bicristatus* was photographed at approximately 9 m depth by a scuba diver at Fiesa (Piran, Slovenia) (45°31'33.70" N, 13°34'49.97" E). The specimen was determined based on the distinct external morphological features seen from the photographs and described by Cuesta et al. (2019), namely the colour pattern on the carapax and tufts of short, curved setae on dorsoanterolateral carapace region

(Fig. 1). The crab was found on sandy bottom, on top of a hollow concrete cube, overgrown with several algal species. The finding represents the first finding in the Mediterranean Sea, except for Alboran Sea, suggesting that the crab could be more widespread in the Mediterranean as is known until now.

Acknowledgements. This work was conducted as part of the Slovenian national research corefunding No. P1-0237 and the national monitoring of alien species 2021-2023 (Contract No. 2330-21-670002). The authors would like to thank Mrs. Irena Frković for the photos and the informations provided regarding the finding.

## References

- Becker, C. & Türkay, M. 2010. Taxonomy and morphology of European pea crabs (Crustacea: Brachyura: Pinnotheridae). Journal of Natural History 44 (25–28): 1555–1575.
- Cuesta, J. A., García Raso, J. E., Abelló, P., Marco-Herrero, E., Silva, L. & Drake, P. 2019. A new species of pea crab from south-western Europe (Crustacea, Decapoda, Brachyura): species description, geographic distribution and population structure with an identification key to European Pinnotheridae. Journal of the Marine Biological Association of the United Kingdom 99: 1141–1152.
- Marco-Herrero, E., Galimany, E., Abelló, P., Cuesta, J., Drake, P. & Ramón, M. 2020. Updating the hosts and distribution range of the pea crab *Pinnotheres bicristatus* (Brachyura: Pinnotheridae). Mediterranean Marine Science 21 (3): 499–505.

Borut Mavrič (corresponding author) & Al Vrezec, National Institute of Biology, Večna pot 121, 1000 Ljubljana, Slovenia; e-mail: borut.mavric@nib.si