

First record of the rendezvous fish, *Polymetme corythaeola* (Alcock, 1898), in the Mediterranean Sea

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Abstract

The occurrence of the rendezvous fish, *Polymetme corythaeola* (Alcock, 1898) in Mediterranean Sea is here reported for the first time. A single individual of this benthopelagic fish was caught in February 2020 during a scientific trawl survey. The specimen was collected at a depth of 369 m (upper slope) in the Gulf of Roses (Catalonia, north-western Mediterranean). This circumglobal species could have naturally expanded its distribution through the Strait of Gibraltar, but we cannot totally exclude that its Mediterranean occurrence has been overlooked thus far. This finding highlights the importance of continuous monitoring of Mediterranean deep-sea habitats for a better understanding of their diversity and ongoing transformation.

KEYWORDS

first record, Mediterranean, otoliths, *Polymetme corythaeola*

1 | INTRODUCTION

Scientists and managers are becoming increasingly conscious of the importance of biological monitoring of the deep Mediterranean Sea (Danovaro et al., 2020). This also relates to the need to detect and identify species that were previously unrecorded from these environments. Since 60s, a number of deep-water Atlantic fishes, such as *Halosaurus osteni* Johnson, 1863 (Pais et al., 2009), *Chimaera subitosa* Caruso, 1989 (Ragonese et al., 2001), *Beryx splendens* Lowe, 1834 (Orsi Relini et al., 1995), *Trachyscorpia cristulata echinata* (Günther, 1866) (Ragonese & Giusto, 1999), and *Notoscepheus knoyeri* (Malm, 1861) (Kerkin & Eryilmaz, 2010), and the benthopelagic *Cyclopterus lumpus* Linnaeus, 1758 (Dulčić & Golani, 2006; Katsanevakis et al., 2020), have been reported from Mediterranean Sea. According to the currently adopted definitions (Olenin et al., 2011), these species cannot be considered nonindigenous and are explicitly excluded from European Union legislation concerning alien species (EU 2014). Moreover, due to the limited information that we have on

deep sea environments, it is often impossible to reliably demonstrate if these species are recent arrivals (which would be through autonomous range-expansion if a human-mediated introduction is considered unlikely) or overlooked native species. Therefore, they are usually assigned to the category "cryptogenic" (sensu Carlton, 1996).

2 | MATERIAL AND METHODS

On February 12, 2020, a single individual of *Polymetme corythaeola* (Figure 1a) was caught during a trawl survey (ICATMAR project). The specimen was collected in a discard sample from a commercial trawl fishery of Norwegian lobster (*Nephrops norvegicus*) operating at a depth of 369 m (upper slope) in the Gulf of Roses (Catalonia, north-western Mediterranean; latitude: 41°57.777'N; longitude: 3°31.164'E (Figure 2). The individual was frozen on board, and morphometric measurements and meristic counts were performed

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