On the presence of *Siphonaria belcheri* Hanley, 1858 [Gastropoda: Siphonariidae] and *Septifer bilocularis* (Linnaeus, 1758) [Bivalvia: Mytilidae] in the Iskenderun Bay (SE Turkey)

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Abstract

*Siphonaria belcheri* and *Septifer bilocularis* were reported from Iskenderun Bay in 2001. But they were considered as misidentifications of *Siphonaria crenata* and *Septifer forskali* respectively, in the CIESM Atlas of Exotic Species. The present study, carried out in 2005-2006, indicates the presence of these two alien molluscs in Iskenderun Bay, Turkey.

Key words: *Siphonaria belcheri*, *Septifer bilocularis*, Mollusca, Alien, Iskenderun Bay

Two alien molluscs (*Siphonaria belcheri* Hanley, 1858; *Septifer bilocularis* (Linnaeus, 1758)) were reported from Iskenderun Bay, Turkey by Albayrak and Çeviker (2001). Their descriptive characters were explained in that manuscript but no photographs were given due to the editorial considerations of the journal (Israel Journal of Zoology). The authors of the CIESM Atlas of Exotic Species in the Mediterranean (Zenetos et al. 2003) had not contacted either Albayrak or Çeviker, and chose to consider *S. belcheri* and *S. bilocularis* as misidentifications of *Siphonaria crenata* and *Septifer forskali* respectively, in the CIESM Atlas of Exotic Species. The present study, carried out in 2005-2006, indicates the presence of these two alien molluscs in Iskenderun Bay, Turkey.

Two dead specimens of *S. belcheri* were reported from Burnaz (Figure 1) (Albayrak and Çeviker 2001), but, in November 2005, six living specimens (Figure 2) were obtained from rocky shores in Iskenderun (36°35’54”N, 36°09’20”E) and hundreds of its shells are found all around Iskenderun Bay (Doğan Çeviker, pers. comm.). *Siphonaria belcheri* is unknown from the Red Sea or the Suez Canal, where another species *S. crenata* is known which had also been found off the Israeli coast (Dekker and Orlin 2000, Zenetos et al. 2003). *Siphonaria crenata* has a solid shell, oval in outline, with strong, unequal ribs, beige to white, usually with darker ribs externally, internally white, cream or orange with occasionally fused brown blotches or rays, muscle impression cream or rose. The shell of *Siphonaria belcheri* is thick, also oval in outline but its margin is often distorted, there are thick ribs and lesser ribs between them and two nearly fused ribs at side of the siphonal groove, externally the ribs are off-white, their interstices brown, internally whitish rays have dark or paler brown sections between them, muscle impression...
orange. *Siphonaria belcheri* occurs in the Arabian Sea (Bosch et al. 1995), but not in the Red Sea or the Suez Canal and it was probably introduced to the Mediterranean by ships coming from the Arabian Sea.

Albayrak and Çeviker (2001) identified *Septifer bilocularis* as *S. bilocularis* var. *forskali* according to Oliver (1992). Since variety is not a valid taxon, it was reported as *S. bilocularis*. The explanatory paragraph was deleted by the journal editor. Çeviker (2002) discussed this species and supplied differentiating characters between *S. forskali* and *S. bilocularis* (*S. bilocularis* and *S. forskali* can be easily distinguished from each other by the position of umbones. *S. bilocularis* has a terminal umbo whereas *S. forskali* has a subterminal one) and stated that the specimens collected in Iskenderun Bay belong to *S. forskali*. Mienis (2004) reported the presence of *S. bilocularis* from Israel and postulated it arrived from Australia. In June 2006, a single living specimen of *S. bilocularis* (Figure 3) was obtained from Dortyol (36°49′49″N, 36°08′02″E) during dredging surveys at 20 m depth. It seems
We consider *S. belcheri* as an established species in the Bay of Iskenderun and confirm the presence of *S. bilocularis* from a second locality in the Mediterranean Sea.

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**References**


