LESSEPSIAN OPISTHOBRANCHS FROM SOUTHWESTERN COAST OF TURKEY; FIVE NEW RECORDS FOR MEDITERRANEAN

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Abstract

The opisthobranchs from the southwestern coast of Turkey were studied by diving. The species are either collected or photographed. lessepsian species have been identified, with five new records for the Mediterranean, and four new records for Turkey. The observation of the Mediterranean in the Turkish coast.

Key words: Lessepsian, Opisthobranch, Turkey

The Indo-West Pacific (IWP) originated gastropods from Turkey are well studied and some lessepsian opisthobranchs have already been reported (1). The lack of shell makes it difficult to trace the presence of opisthobranchs, unless specimens are observed or collected alive in their habitat. Exotic opisthobranch species from the southwestern coast of Turkey, between Bodrum and Tekirova, were identified from living specimens or from photographs. Of the tenlessepsians identified, Haminoea cyanomarginata, Oxynoe viridis, Elysia grandifolia, Elysia tomentosa, Syphonota geographicaare new records for the Mediterranean. Bulla ampulla, Plocamopherus ocellatus, Melibe viridisand Flabellinarubrolineataare new records for Turkey. The observation of Hypselodoris infucatain Fethiye extends its westernmost limit on the Turkish coast. Photographs and identifications have been verified on the Sea Slug Forum (http://www.seaslugforum.net).

Haminoea cyanomarginataHeller & Thompson, 1983

Material photographed: Uc Adalar: 15m, July 2002; 24m, September 2003; Cesme: 15m, September 2002; all on rocky habitat.

Remarks. Haminoea cyanomarginatawas described from the Sudanese Red Sea, the only known record for IWP (2). Another record from Greece is in press (3). Its abundance suggests that it has a wide distribution on the southwestern coast of Turkey (4).

Bulla ampullaLinnaeus, 1758

Material collected: Uc Adalar: 18m, sediment from Cymodocea nodosa field, May 2001; 22m, sediment from Halophila stipulaceafield, September 2003.

Remarks. Living animals have not been observed, but three shells were collected, which are new records for Turkey.

Oxynoe viridis(Pease, 1861)

Material photographed: Uc Adalar, 6m, April 2002; Tekirova, 8m, September 2002.

Remarks. Oxynoe viridisis variable in colour in IWP, but all Turkish specimens had a yellowish body covered with blue spots. It is rarely, but always observed on Caulerpaspecies (5).

Elysia grandifoliaKelaart, 1858

Material photographed:Uc Adalar: 5m, September 2001; 7m, August 2003

Remarks. Both Elysia ornata (Swainson, 1840)and E. grandifoliahave almost identical colouration, but Elysia grandifoliais larger, 10 cm or more, its parapodia are large and thin, the black and orange bands at the edge of the parapodia are not separated by white. Some authors consider them as conspecific, but more anatomical study is needed to clarify the relation. Due to body size and parapodial structure, the Turkish individuals are classified as Elysia grandifolia (6). Rare, always on rocky habitat, more common in Lebanon (Jose Templado, pers. comm.).

Elysia tomentosa Jensen, 1997

Material photographed: Uc Adalar: 6m, September, 2001; 20m, April 2002; 18m, October 2002; 24m, September, 2003; Tekirova, 10m, September 2002.

Remarks. Olive green, more or less covered with tiny yellowish white dots. Body extremely papillose, almost invisible in its habitat. Common, always on Caulerpa racemosa(7).

Syphonota geographica(Adams & Reeve, 1850)

Material photographed: Fethiye, 10 m, on sand, December 2002; Uc Adalar, 27m, on Caulerpa prolifera, May 2003.

Remarks. Syphonota geographicacan be distinguished from species of *Aplysiaby the position of the rhinophores, close together and set back* between the parapodial lobes. Rarely observed on seagrass beds on the southwestern coast of Turkey, its distribution range may be extended to as far as Italy (8).

Plocamopherus ocellatusRuppell & Leuckart, 1828

Material photographed: Kas, 10m, on rocky habitat, August 1998. Remarks. The unique colouration distinguishes this species form Mediterranean congenerics. The single specimen recorded here is the third Mediterranean record, the others being from Israel (9) and Leba For photographs and discussion see ref. 11.

Hypselodoris infucataRüppell & Leuckart, 1830 or 1831

Material photographed: Fethiye: 12m, rocky habitat, June 20 Remarks. Previously reported from Iskenderun Bay, southea: Turkey (12, 13).

Melibe viridisKelaart, 1858

Material photographed: Kas: 7m, June 2000; Tekirova: 6m, ε August 2001.

Remarks. Seemingly well established on the Levantine basin reported from Turkey before (14). Rarely observed in shallow v muddy sand (15).

Flabellina rubrolineata(O'Donoghue, 1929)

Material photographed: Always on hydroids. Uc Adalar: 20n 2001; 8m, September 2002; Kas: 18m, September 2002; Bodru rocky habitat, August 2003.

Remarks. Only a single specimen has been previously report Israel (16). It is the most abundant Flabellinaspecies observed c colonies (Eudendriumsp). See ref. 17 for photographs and discu

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