conservation of the freshwater branchiopod generic name *Disparalona* Fryer, 1968 (Anomopoda, Chydoridae) by the suppression of *Phrixura* Müller, 1867. The latter genus and its type-species *P. rectirostris* Müller, 1867, were based on a single deformed individual now recognized as belonging to *Lynceus rostratus* Koch, 1841, the type-species of *Disparalona*. The name *Phrixura* has been ignored since its original publication but it has been suggested recently that it should displace *Disparalona*, a name in wide use.

The following Opinion dealing with Crustacea was published on pp. 131-132 of the same issue of the Bulletin:


**THE GENUS PROCESSA LEACH (DECAPODA, CARIDEA) IN THE AEGEAN SEA**

**BY**

A. KOUKOURAS

Department of Zoology, Aristoteleio University of Thessaloniki, GR-540 06 Thessaloniki, Greece

Koukouras et al. (1992) listed the decapod crustacean fauna of the Aegean Sea. This list included eight of the ten *Processa* species known from the Mediterranean and the Black Sea. The information given in that paper was based partially on the material collected from this area and partially on a thorough review of the relevant literature, which included scattered records of the presence of the various species. Many of these records, however, should be considered doubtful, since they have appeared before the review by Nouvel & Holthuis (1957) or the description of some new species (Al-Adhub & Williamson, 1975; Williamson & Rochanaburunon, 1979).

Recent sampling in the Aegean and reexamination of material collected previously in this area (fig. 1) gave additional information on the distribution and habitats of the species of the genus *Processa*, as follows (CI = carapace length):

**Processa acutirostris** Nouvel & Holthuis, 1957

1 σ; sta. 24, west coast of Calymnos Island, depth 10 m, sandy substratum, 2.i.1974. CI = 12 mm.

This Mediterranean endemic species is reported for the first time from the Aegean Sea. It was known from various areas of the western Mediterranean (e.g., Nouvel & Holthuis, 1957; Forest, 1965); the central Mediterranean, off E. Tunisia (Đuriš, 1996) and the Gulf of Taranto (Forest, 1967); the Adriatic
NOTES AND NEWS

22°

Fig. 1. Map indicating the sampling stations in the Aegean Sea. Every sampling station includes various habitats of different depth. Details are given in the species presentations.

(Holthuis, 1961); and the Levantine Basin, i.e., the Cyprus coast (Lewinsohn & Holthuis, 1986).

**Processa canaliculata** Leach, 1815

28 ♂♂, 19 ♀♀ (5 ovigerous); stas. 1, 2, 3, 6, 10, 12, 13, 14, 15, 18, 20, 24, 25, 27, 29, 30, 32, and 34 (fig. 1), depths 40-350 m, silty substratum. Max. Cl ♂ = 14 mm; max. Cl ♀ = 16 mm.

Valid records of this species in this area are: South Evoikos Gulf (Koukouras & Kattoulas, 1974, as *P. mediterranea* (Parisi, 1915)) and the Korinthiakos Gulf (Kaspiris, 1990, also as *P. mediterranea*).
An Atlanto-Mediterranean species (Lagardère, 1973; D’Udekem d’Acoz, 1990), known from various sites of the western Mediterranean (e.g., Nouvel & Holthuis, 1957), the central Mediterranean (Đuriš, 1996), the Adriatic (e.g., Froglia, 1972) and the Levantine Basin (Holthuis & Gottlieb, 1958).

Processa edulis (Risso, 1816)

14 ιι, 9 ηη; stas. 5, 8, 9, 12, 16, 17, 19, 20, 22, and 24 (fig. 1), depths 3-30 m, among algae and meadows of Posidonia oceanica (Linnaeus) Delile. Max. CI = 10 mm; max. CI = 12 mm.

Valid previous records from the Aegean are: the Izmir Gulf (Geldiay & Koçatas, 1968; Koçatas, 1981), the Thermaikos Gulf (Georgiadis & Georgiadis, 1974, as P. edulis edulis) and Skiathos Island (Türkay et al., 1987).

An Atlanto-Mediterranean species known from various sites in the western Mediterranean (e.g., Nouvel & Holthuis, 1957), the central Mediterranean (Forest, 1967), the Adriatic (e.g., Manning & Števčić, 1982) and the Levantine Basin (Holthuis, 1961; Lewinsohn & Holthuis, 1986).

Processa elegantula Nouvel & Holthuis, 1957

3 ιι; stas. 11 (coast of Porto-Koufo, Chalkidiki Peninsula) and 7 (Moni Iviron, Athos, Chalkidiki Peninsula), depths 20 and 25 m, in Posidonia oceanica meadows. Max. CI = 6 mm.

In the area, the species has been recorded only from the Messiniakos Gulf (Holthuis & Gottlieb, 1958) and the Izmir Gulf (Koçatas, 1981).

An Atlanto-Mediterranean species, collected from various sites of the western Mediterranean (e.g., Nouvel & Holthuis, 1957), the central Mediterranean (Đuriš, 1996), and Levantine Basin, along the south coast of Turkey (Koçatas, 1981).

Processa macrophthalma Nouvel & Holthuis, 1957

13 ιι, 10 ηη (2 ovig., 6.v.1995 and 1 ovig., 9.x.1995); stas. 4, 21, 26, 28, 29, 31, and 33 (fig. 1), depths 6-280 m, from sand, sandy silt, and silt substrata. Max. CI = 18 mm; max. CI = 17 mm (ovig. η = 9 mm).

The only previous records of this species in the area are those from the Turkish coasts of the Aegean (Koçatas, 1981) and south Aegean (Koukouras et al., 1993).

An Atlanto-Mediterranean species, (e.g., Neves, 1973), known from various localities in the western Mediterranean (e.g., Nouvel & Holthuis, 1957), the central Mediterranean (Tursi et al., 1974; Đuriš, 1996), the Adriatic (Števčić, 1969, 1979, 1990) and the Levantine Basin, south coast of Turkey (Koçatas, 1981) and the Cyprus coast (Lewinsohn & Holthuis, 1986).
NOTES AND NEWS

Processa modica Williamson, in Williamson & Rochanaburanon, 1979

2 ♂♂, sta. 23, north coast of Milos Island; 1 ovig. ♀, sta. 11, Porto Koufo, Chalkidiki Peninsula, 14.vii.1996; depths 12 and 4 m, sandy substratum. Max. Cl ♂ = 8 mm; Cl ♀ = 9.5 mm.

The species has been recorded in the area only from the Saronikos Gulf (Vamvakas, 1971, as P. parva Holthuis, 1951), the Aegean coast of Turkey (Koçatas, 1981, as P. modica carolii Williamson, 1979) and the southern Aegean (Koukouras et al., 1993, from material obtained during the cruises of the "Calypso").

An Atlanto-Mediterranean species known from various localities of the western Mediterranean (e.g., García Raso, 1982), the Adriatic (e.g., Manning & Števčić, 1982) and the Levantine Basin, along the south coast of Turkey (Holthuis, 1961; Koçatas, 1981, as P. parva).

Processa nouveli Al-Adhub & Williamson, 1975

37 ♂♂, 30 ♀♀ (16 ovig.); stas. 7, 8, 15, 19, 26, 28, 29, 31, and 32 (fig. 1), depths 10-300 m from sand, sandy silt, and silt substrata. Max. Cl ♂ = 11 mm; max. Cl ♀ (ovig.) = 11 mm.

This species has been previously reported from the N.W. coast of Crete and the coast of Istanbul (Holthuis & Gottlieb, 1958, as P. canaliculata), Saronikos Gulf (Vamvakas, 1971, as P. canaliculata Leach, 1815), the Evoikos Gulf (Koukouras & Kattoulas, 1974, as P. canaliculata), and the Aegean coast of Turkey (Koçatas, 1981).

An Atlanto-Mediterranean species known from the western Mediterranean (Al-Adhub & Williamson, 1975; Falciai, 1981; García Raso, 1982), the Adriatic (Števčić, 1979) and the Levantine Basin, along the coast of Israel (Holthuis & Gottlieb, 1958, as P. canaliculata), the south coast of Turkey (Koçatas, 1981) and the coast of Cyprus (Lewinsohn & Holthuis, 1986).

Processa robusta Nouvel & Holthuis, 1957

1 ovig. ♀; sta. 29, off Iraklio, coast of Crete, depth 6 m, sandy substratum. Cl = 8 mm, carrying about 1000 eggs, with a mean diameter of 0.35 mm.

The species was previously reported in the eastern Mediterranean only from the Strymonikos Gulf, in the northern Aegean Sea (Koukouras et al., 1992).


Two more species of this genus which are known from the Mediterranean and the Black Sea have not yet been found in the Aegean. One of these, P. macro-
**NOTES AND NEWS**

**dactyla** Holthuis, 1952, known only from the west coast of Africa (Holthuis, 1952; Manning & Chace, 1971; etc.), has been collected once again as a single specimen in the littoral waters of Malaga (García Raso & Salas Casanova, 1985). The second species, *P. pontica* (Sowinsky, 1882) (cf. Băcescu, 1967) is a Black Sea endemic, found exclusively in that area.

Review of the relevant literature showed, that 7 of the 10 European Processidae have an Atlanto-Mediterranean distribution and 3 are Mediterranean or Black Sea endemics. Summarizing, in the western Mediterranean 9 of these have been recorded, 8 in the Aegean, 7 in the Adriatic and the Levantine, 5 in the central Mediterranean (probably due to reduced sampling effort), and 1 in the Black Sea.

**REFERENCES**


Received for publication 8 April 1997.