**Dactylamblyops corberai** n. sp., a new mysid (Crustacea: Mysida) from the deep Mediterranean Sea

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**SUMMARY:** A new Erythropinae mysid, *Dactylamblyops corberai* n. sp., is described from specimens sampled with a 500-μm plankton net attached to a bottom trawl in the Ionian Sea (eastern Mediterranean). This new species is the first *Dactylamblyops* species described from the Mediterranean Sea. Based on a revision of additional material from several cruises made in recent years, we conclude that *D. corberai* is a widespread species in the deep Mediterranean near-bottom suprabenthic community at depths between 398 and 1859 m. The main distinguishing features of *D. corberai* are the shape of the eyes and their ocular process, and the shape of the labrum with two rows of clusters of short setules and two areas covered with small, scale-like protrusions not described in any other species of the genus. *D. corberai* belongs to the morphological *hodgsoni* group of *Dactylamblyops* species.

**Keywords:** Mysida, Mysidae, endemism, Mediterranean Sea, deep sea.

**INTRODUCTION**

The mysid fauna of the Mediterranean Sea is considered one of the best known (Mauchline, 1980; Wittmann, 1999). However, the Mediterranean mysid inventory is far from being completed (Wittmann, 2001). The temporal trend in the description of new species indicates an incompletely documented fauna and suggests that there are still a number of undescribed species in this Sea (San Vicente, 2010). In deep sea domains (depths below 200 m) Mediterranean habitats still remain far from being reasonably explored, in spite of the increasing effort devoted to the study of their peracarid fauna since the 1990s (Cartes and Sørbe, 1995; Cartes et al., 2001; 2003). This coincided with the use of suprabenthic sledges (Cartes et al., 1994) to sample the deep sea sediment-water interface. Some new species were described in the Balearic Basin (Ruffo et al., 1999; Jaume et al., 2000). Mysids, having the highest natatory capacity among peracarids, are well sampled preferably using suprabenthic sledges. Based on quantitative samplings mysids are the dominant taxa in terms of biomass, though they are the lowest diversified among peracarids in the deep Mediterran-
nean (Cartes and Sorbe, 1995, Cartes et al., 2003). In this area, particular emphasis has been placed on the characterization of deep assemblages of peracarids and their ecological importance as trophic resources for fish and large invertebrates.

The genus *Dactylamblyops* was established by Holt and Tattersall (1906) after the reception of an Antarctic species collected by the R/V Discovery. In the same study, these authors also transferred *Amblyops* sarsi Ohlin (1901) sampled from Spitzbergen to this genus on the strength of Ohlin’s description and figures.


This paper deals with the description of the new species *Dactylamblyops corberai*. The description of this taxon constitutes a good example of how relatively abundant species in the deep Mediterranean can still remain unknown to science. We will emphasize that *D. corberai* is widely distributed in both the western (Cartes and Sorbe, 1995, Cartes et al., 2003) and the eastern (Madurell and Cartes, 2003) basins, where it was cited as *Dactylamblyops* sp. or *Dactylamblyops* sp. A.

**MATERIALS AND METHODS**

The specimens studied herein were collected during a series of bottom trawls performed in the Ionian Sea (between the west coast of the Peloponese and the island of Zakynthos) in 1999-2000. They were caught with a 500-μm plankton net (0.16 m² frame-shaped mouth aperture) attached to the upper part of a commercial bottom trawl. The animals appeared in good state compared to material collected with suprabenthic sledges, so they were chosen as holotypes/paratypes for the current description. The specific composition of peracarid Crustacea (suprabenthos) by sampling station of all these trawls is available at Madurell and Cartes (2003).

Other specimens of *Dactylamblyops corberai* n. sp. cited previously as *Dactylamblyops* sp. (Cartes and Sorbe, 1995) or *Dactylamblyops* sp. A (Cartes et al., 2003; Madurell and Cartes, 2003) were also collected in different areas of the western Mediterranean using a Macer-GIROQ suprabenthic sledge (see below). Also, one specimen was collected in the water column with a 500-μm mesh size WP2 plankton net equipped with a General Oceanics opening-closing system (Table 1).

Samples were preserved in a solution of 10% buffered formaldehyde. Specimens were counted and measured under a dissecting microscope with an eyepiece micrometer. Whenever possible the individual size was determined from the measurement of the carapace length (CL: measured from the apex of the rostrum to the posterior dorsal edge of the carapace) and/or the total length (TL: from the apex of the rostrum to the posterior end of the telson, excluding spines) to the nearest 0.1 mm. Specimens selected for the species description were dissected and temporarily mounted on slides. Dissected appendages were drawn with the aid of a camera lucida mounted on a Zeiss Axioskop 20 microscope. Type material is deposited at the *Institut de Ciències del Mar* (ICM) of Barcelona, Spain. Description below refers to both sexes, unless otherwise stated.

**RESULTS**

**Systematics**

Order **MYSIDA** Haworth 1825  
Family **MYSIDAE** Haworth 1825  
Subfamily **ERYTHROPINAE** Hansen, 1910  
Genus *Dactylamblyops* Holt and Tattersall, 1906

*Dactylamblyops corberai* n. sp.  
(Figs. 1-4)

*Material examined.* Holotype: (ICMM 1/2010) Mature male, 7.7 mm TL; St T02N3, 27/02/2000; Ionian Sea, 37°47.67′N; 21°03.29′E; 594 m depth; eight mature males (two males each of 7.0, 7.1, 7.2 and 7.4 mm TL; St T02N2; 26/02/2000; Ionian Sea, 37°50.90′N; 21°56.87′E; 510 m depth); two mature males (6.8 and 7.6 mm TL, same locality as holotype).

*Diagnosis.* Eyes large with long finger-like process on dorsomedial surface; process reaching distal end of cornea. Labrum with double row of short setae and covered with small, scale-like outgrowths. Three setae on inner ventral margin of endopod of uropod close to statocyst. Single median slender seta at apex of telson.

*Description.* Carapace produced anteriorly into small rounded rostrum with blunt tip extending to base of eyestalks (Figs. 1A-B); antero-lateral angles...
rounded; cervical sulcus well marked; slightly emarginate posteriorly leaving last thoracic somite partially exposed in dorsal view.

Abdomen longer than carapace; first, second and fourth segments subequal in length; third segment shorter and fifth and sixth segments longer (Fig. 1A).

Eyes large and more or less quadrangular at base and oval distally; with small but definite stalks; each eye bearing long finger-like process on dorsomedial surface projecting until distal end of cornea (Fig 1C).
Antennular peduncle extending to about midway of antennal scale, third segment longest, second segment very short; outer distal margin of first segment furnished with three short setae (Fig. 1B).

Antennal peduncle short, 3-segmented, about half as long as scale, not extending beyond antennular peduncle; third segment longest, overlapping second segment; inner distal margin of second and third segments
with four and three setae, respectively. Protopod of antenna relatively slender, with outer distal angle produced into strong spine (Fig 1D). Antennal scale long and slender, nearly four times as long as maximum width; extending for more than one third of its length beyond antennular peduncle; lateral margin naked; terminating in a strong spine extending clearly beyond apex of scale; distal suture absent.

Fig. 3. – *Dactylamblyops corberai* n. sp.: A, endopod of 1st thoracopod; B, chela of 1st endopod thoracopod; C, 2nd thoracopod; D, chela of 2nd thoracopod endopod; E, 7th thoracopod; F, chela of 7th thoracopod; G, male genital organ; A-D, holotype, mature male; E-G, paratype, mature male TL 7.0 mm.
Labrum (Fig. 1E) almost triangular; posterior surface with two distinct areas each comprising a row (or patch) of short setules plus a patch of tightly-set, small, scale-like integumentary outgrowths.

Mandibles (Fig. 2A) with palp large and slender, 3-jointed, first segment shortest, second segment more than twice long than the third one. Left mandible with well developed incisor and molar process, plus row of

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**Fig. 4.** – *Dactylamblyops corberai* n. sp.; holotype, mature male: A, 1st pleopod; B, 2nd pleopod; C, 3rd pleopod; D, 4th pleopod; E, 5th pleopod; F, uropods and telson in dorsal view; G, uropod in ventral view.
four hirsute spines; counterpart on right mandible comprising eight entire spines (Fig. 2B). Distal segment of palp (Figs. 2C-D) with enlarged proximo-ventral setae and two distoventral setae; medial margin with row of 20 pinnate setae and distal row of seven to eight shorter pinnate setae; one long pinnate seta on tip of segment (not shown in Fig. 2D); dorsal margin unarmed.

Maxillule (Fig. 2E) basal endite (outer lobe) apex armed with nine cuspidate setae and three long setae on ventral surface; coxal endite (inner lobe) with ten plumose setae, of which three apical larger; proximal anterior margin of coxa with row of setules.

Maxilla (Fig. 2F) with endopod twice as long as wide, densely setose on inner margin; outer margin with five plumose setae and row of setules; protopodal endites armed with plumose setae on inner margins; exopod large, with five plumose setae on outer margin and row of setules on inner margin.

First and second thoracic appendages formed as maxillipeds. First thoracopod small and robust, biramous; endopod dactylus short, half as long as propodus, with three spinose setae on inner margin and robust distal nail; propodus bearing three papposse setae on inner margin; merus with five papposse setae on inner margin; ischium with nine setae on inner margin; preischium with six papposse setae on inner distal margin (Figs. 3A-B).

Endopod of second thoracopod with preischium shorter than ischium, inner margin armed with simple seta; ischium with four setae on inner margin; merus and carpo-propodus longest, subequal in length; dactylus short armed with fifteen setae and distal nail; exopod nine-articulated (Figs. 3C-D).

Third to sixth and eighth thoracic appendages broken in all individuals examined. Endopod of seventh thoracopod with dactylus armed with two distal nails; carpo-propodus separated into three subsegments, merus subequal in length to carpo-propodus; ischium divided into three subsegments; preischium short and unarmed; exopod 10-articulated, shorter than endopod (Figs. 3E-F). Male genital organ bearing six apical papposse setae (Fig. 3G).

Pleopods of male biramous; endopods with small side lobes (Figs. 4 A-E). First pleopod endopod 11-articulated, endopod unsegmented. Second to fifth pleopods with exopod 11-articulated exopod and 9- to 12-articulated endopod. Female pleopods uniramous, unjointed, increasing in length towards posterior end.

Uropods long and slender, extending to apex of telson (Fig. 4F-G); exopod longer than endopod; inner ventral margin of endopod armed with three setae near statocyst (Fig. 4G).

Telson subequal in length to last abdominal somite and twice as long as broad at base (Fig. 4F); linguiform in shape; distal half of lateral margins armed with 15-16 setae increasing in length towards distal end; apex with two pairs of longer and larger setae; single median slender seta present at apex (broken in all individuals examined).

**Table 1.** Station data for additional specimens of *Dactylamblyops corberai* n. sp. from several cruises made in the Mediterranean Sea in recent years (N, number of specimens analysed in this study).

<table>
<thead>
<tr>
<th>Zone</th>
<th>Sampling data</th>
<th>Latitude range</th>
<th>Longitude range</th>
<th>Depth range (m)</th>
<th>Sampling method</th>
<th>N</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>off Barcelona</td>
<td>1991-1992</td>
<td>40º49´-41º09´N</td>
<td>2º04´-2º35´E</td>
<td>389-1859</td>
<td>suprabenthic sledge</td>
<td>32</td>
<td>cited as <em>Dactylamblyops</em> sp. (Cartes and Sorbe, 1995)</td>
</tr>
<tr>
<td>off Barcelona</td>
<td>12/10/1996</td>
<td>40º55´N</td>
<td>2º00´E</td>
<td>1287-1281</td>
<td>suprabenthic sledge</td>
<td>1</td>
<td>Pr96 cruise, unpublished data</td>
</tr>
<tr>
<td>off Barcelona</td>
<td>05/03/1998</td>
<td>41º09´N</td>
<td>2º09´E</td>
<td>398</td>
<td>suprabenthic sledge</td>
<td>1</td>
<td>BBD1 cruise, unpublished data</td>
</tr>
<tr>
<td>off Barcelona</td>
<td>23/09/1998</td>
<td>40º52´-40º55´N</td>
<td>2º07´-2º24´E</td>
<td>1200-1600</td>
<td>suprabenthic sledge</td>
<td>14</td>
<td>BBD2 cruise, unpublished data</td>
</tr>
<tr>
<td>off Barcelona</td>
<td>26/04/2007</td>
<td>41º10´N</td>
<td>2º24´E</td>
<td>632-634</td>
<td>WP2 plankton net with an opening-closing mechanism (5-52 m. above the bottom)</td>
<td>3</td>
<td>cited as <em>Dactylamblyops</em> sp. (Cartes et al., 2003)</td>
</tr>
<tr>
<td>SE Eivissa Island</td>
<td>27/10/1996</td>
<td>38º13´N</td>
<td>1º48´-1º49´E</td>
<td>210-1752</td>
<td>suprabenthic sledge</td>
<td>7</td>
<td>QUIMERA1 cruise (Cartes et al., 2003)</td>
</tr>
<tr>
<td>off NW Mallorca Island</td>
<td>2003-2004</td>
<td>38º98´-39º81´N</td>
<td>2º57´-2º76´E</td>
<td>326-735</td>
<td>six cruises (IDEA), unpublished data</td>
<td>41</td>
<td>cited as <em>Dactylamblyops</em> sp. (Cartes et al., 2003)</td>
</tr>
<tr>
<td>off S Mallorca Island</td>
<td>2003-2004</td>
<td>38º09´-39º81´N</td>
<td>2º18´-2º37´E</td>
<td>326-735</td>
<td>six cruises (IDEA), unpublished data</td>
<td>3</td>
<td>cited as <em>Dactylamblyops</em> sp. (Cartes et al., 2003)</td>
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</table>

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Colour in live specimens: white with some yellowish tinge.

Etymology. This species is named in honour of Mr. Jordi Corbera in recognition of his contribution to the knowledge and artistic paintings of Mediterranean fauna.

Distribution and habitat. The species distribution comprises, in addition to the type locality (Ionian Sea), the Balearic Basin (off Barcelona, NW Mallorca) and the Algerian basin close to the Balearic Islands (SW Mallorca and SW Eivissa) (Table 1).

The habitat of D. corberai comprises the near-bottom layer (0-2 metres above the bottom) at depths between 398 and 1858 m on muddy bottoms. In the Ionian Sea the species lives in the water column at T=14.0-14.8°C and S=38.3-38.7. In the western Basin it is found at the deepest stations sampled (1858 m), though the species showed its highest abundance off Catalonian coasts at 1253-1287 m depth and to the SW of Mallorca Island at 350-650 m depth.

DISCUSSION

Species of the genus Dactylamblyops can be divided into seven morphological groups on the basis of the form of the eye: the hodgsoni group, the sarsi group, the thautamops group, the goniops group, the tenella group, the soliva group and the laticauda group” (Murano, 1981). Their exact systematic positions remains unresolved, and several authors have expressed doubts regarding the taxonomic validity of some species of the genus (Tattersall and Tattersall, 1951; Ii, 1964; Nouvel and Lagardère, 1976; Murano, 1981).

According to Murano (1981), the hodgsoni group is defined as follows: “eye pyriform, not flattened, with a digitate process on inner dorsal surface; cornea imperfectly developed; telson elongate linguiform or elongate triangular, armed with many spines on distal half of lateral margin and apex, without plumose setae or a tiny spine on apex”. The Dactylamblyops hodgsoni group is composed of the following five species: D. hodgsoni from the Southern Ocean, D. fervida known only from the type locality in the Moluccas, D. latisquamosa from Indonesia (Sumatra), D. murrayi from the Arabian Sea and Japan, and D. stenurus from Japan. These species agree with the original diagnosis of the genus by Holt and Tattersall (1916) and must be considered as true members of the genus Dactylamblyops (Murano, 1981). The morphological description of D. atlanticus from Ireland (Murano and Mauchline, 1999) coincides with Murano’s grouping (1981) and, consequently, this species should be added to the hodgsoni group.

D. corberai belongs to the morphological hodgsoni group of Dactylamblyops species. The main distinguishing features of D. corberai are the shape of the eyes and their ocular process; the peculiar shape of the labrum with a double row of clusters of short setules and two areas covered with small scale-like protrusions (not described in any other species of the genus); the presence of three setae on the inner ventral margin of the endopod in the region of the statocyst and the armature of the lateral margins of the telson. The new species can be recognized at first glance by the combination of these characters. It should be remarked that individuals of this new species are very fragile and, though we analysed a fairly large number of specimens, only in rare were cases individuals found in good condition.

This species closely resembles D. hodgsoni in the shape of the eye, the elongate antennal scale and the shape of the telson. D. corberai has a triangular rostrum with rounded apex while D. hodgsoni has a semicircular rostrum. In the new species the eye is large, with more or less quadrangular base and oval distally while in D. hodgsoni it is pyriform in shape. In D. hodgsoni the antennal scale is subequal to length to the antennular peduncle and the outer distal spine does not extend beyond the apex of the scale, whereas in the new species the antennal scale extends beyond the antennular peduncle, and the outer distal spine is clearly longer than the apical lobe. The number of lateral spines on the telson is lower in D. corberai (15-16) than in D. hodgsoni (19), whereas a median seta is present in the new species and absent in the latter species.

The new species can be distinguished from Dactylamblyops murrayi, D. stenurus and D. atlanticus on the basis of: (1) the number of setae on the inner ventral margin of the endopod of uropod (three setae in D. corberai, only one in the latter three species); (2) the relative size of the ocular process (reaching distal end of cornea; not reaching it in D. murrayi, or not extending to distal margin of eye in D. stenurus and D. atlanticus); (3) and the armature of the lateral margin of telson (armed with 15-16 setae in D. corberai, 28 in D. murrayi, 25 in D. atlanticus and 19-20 in D. stenurus). D. corberai differs from D. latisquamosa in the shape of rostrum (both display a triangular outline but, whereas the apex is rounded in the new species, it is acutely pointed in D. latisquamosa). Differences from D. fervida rely on the shape of the antennal scale and ocular process (shorter than the antennular peduncle and the ocular process in the new species than in D. fervida). D. corberai differs from an unassigned species from California reported by Tattersall (1951) in the shape and armature of the telson (telson quadrangular with about 26 setae in this unassigned species versus only 15-16 setae in D. corberai). The two species of the genus with a distribution that falls closer to D. corberai, viz. D. goniops and D. thautamops, from the Bay of Biscay (NE Atlantic) (Tattersall and Tattersall, 1951; Nouvel and Lagardère, 1976) and the Cantabrian Sea (I. Frutos, pers. comm.), do not belong to the hodgsoni group, thus clearly differing morphologically from D. corberai.

Dactylamblyops corberai n. sp. is the first species of the genus described from the Mediterranean
Sea. A total of 130 specimens were collected in the eastern Mediterranean (Ionian Sea) and in the western Mediterranean (Balearic and Algerian Basins) at depths of 398-1859 m, suggesting that *D. corberai* is widely distributed on muddy bottoms of Mediterranean slopes (Table 1). All species of the genus *Dactylamblyops* live at considerable depths and in widely scattered parts of the world’s oceans (Table 2). There are two species of the genus with a distribution close to that of the new species (NE Atlantic, Bay of Biscay): *D. goniops* and *D. thaumatops* (Tattersall and Tattersall, 1951; Nouvel and Lagardère, 1976). Both species have recently been collected at depths of 398-1859 m, suggesting that *D. corberai* has a Mediterranean endemism. In poorly sampled environments such as the deep sea endemicity may depend on the sampling effort performed (see Cartes et al., 2009). However, this does not seem to be the case of *D. corberai* due to the wide sampling area covered since the 1990s in the deep Mediterranean and neighbouring zones.

**Table 2.** Summary of known data on geographical distribution, bathymetric range and habitat of *Dactylamblyops* species (Murano and Mauchline, 1999; Hansen, 1910; Tattersall and Tattersal, 1951; Nouvel and Lagardère 1976; Holt and Tattersall, 1906; Li, 1964; Birstein and Tchindonova, 1958; Illig, 1906; Illig, 1930; Ohlin, 1901; Murano, 1969).

<table>
<thead>
<tr>
<th>Species</th>
<th>Latitude range(*)</th>
<th>Distribution</th>
<th>Habitat</th>
<th>Depth range (m)</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>D. atlanticus</em> Murano and Mauchline, 1999</td>
<td>54N</td>
<td>NE-Atlantic (Ireland)</td>
<td>bathypelagic</td>
<td>2500</td>
<td>1</td>
</tr>
<tr>
<td><em>D. fervida</em> Hansen, 1910</td>
<td>18</td>
<td>Indonesia-Molucas</td>
<td>mesopelagic</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td><em>D. goniops</em> Tattersall, 1907</td>
<td>59N -44N</td>
<td>NE-Atlantic (Ireland, Faroes, Bay of Biscay)</td>
<td>benthic</td>
<td>585-1300</td>
<td>3,4</td>
</tr>
<tr>
<td><em>D. hodgsoni</em> Holt and Tattersall, 1906</td>
<td>53 S -66 S</td>
<td>Southern Ocean</td>
<td>benthic</td>
<td>500-4000</td>
<td>5</td>
</tr>
<tr>
<td><em>D. iii</em> Nouvel and Lagardère, 1976</td>
<td>35N</td>
<td>Japan</td>
<td>bathypelagic</td>
<td>&lt;350-1200</td>
<td>6,4</td>
</tr>
<tr>
<td><em>D. laticauda</em> Birstein and Tchindonova, 1958</td>
<td>49N</td>
<td>N-Pacific (Kurile-Kamtschatka)</td>
<td>bathypelagic</td>
<td>4500</td>
<td>7</td>
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<tr>
<td><em>D. latisquamosa</em> Illig, 1906</td>
<td>10N-0</td>
<td>Indonesia (Sumatra)</td>
<td>-</td>
<td>800</td>
<td>8,9</td>
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<tr>
<td><em>D. murrayi</em> Tattersall, 1939</td>
<td>35N-20N</td>
<td>Arabian Sea; Japan</td>
<td>mesopelagic</td>
<td>500-71200</td>
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<td><em>D. pelliciae</em> Birstein and Tchindonova, 1958</td>
<td>29N</td>
<td>Japan</td>
<td>mesopelagic</td>
<td>1900-4400</td>
<td>7</td>
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<tr>
<td><em>D. sarai</em> (Ohlin, 1901)</td>
<td>70N-60N</td>
<td>Arctica (Spitzbergen)</td>
<td>mesopelagic</td>
<td>-</td>
<td>10</td>
</tr>
<tr>
<td><em>D. solivaga</em> Birstein and Tchindonova, 1958</td>
<td>49N</td>
<td>Kurile-Kamtschatka</td>
<td>bathypelagic</td>
<td>500-640</td>
<td>7</td>
</tr>
<tr>
<td><em>D. stenurus</em> Murano, 1969</td>
<td>35N-32N</td>
<td>Japan</td>
<td>bathypelagic</td>
<td>0?-2300</td>
<td>11</td>
</tr>
<tr>
<td><em>D. tenella</em> Birstein and Tchindonova, 1958</td>
<td>27N</td>
<td>Japan</td>
<td>mesopelagic</td>
<td>-</td>
<td>7</td>
</tr>
<tr>
<td><em>D. thaumatops</em> Tattersall, 1907</td>
<td>50N-44N</td>
<td>N-Atlantic (Faroes to Bay of Biscay)</td>
<td>-</td>
<td>1000-1370</td>
<td>3,4</td>
</tr>
<tr>
<td><em>D. corberai n. sp.</em></td>
<td>41-37N</td>
<td>Mediterranean (eastern and western)</td>
<td>suprabenthic</td>
<td>358-1858</td>
<td>This study</td>
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</table>

**Table 2.** Summary of known data on geographical distribution, bathymetric range and habitat of *Dactylamblyops* species.

Key to species of hodgsoni-group *Dactylamblyops* modified from Li (1964) and Murano (1981)

1. Rostrum triangular with acutely pointed apex......... *D. latisquamosa* Illig, 1906
   - Rostrum evenly rounded or triangular with rounded apex........................................... 2
2. Rostrum evenly rounded.................................. 3
   - Rostrum triangular with rounded apex .............. 4
3. Antennal scale subequal in length to the antennular peduncle...... *D. hodgsoni* Holt and Tattersall, 1906
   - Antennal scale extending beyond distal margin of antennular peduncle.................... *D. atlanticus* Murano and Mauchline, 1999
4. Antennal scale short, not extending beyond distal margin of antennular peduncle ............. *D. fervida* ......................................................... Hansen, 1910

- Antennal scale long, extending beyond distal margin of third segment of antennular peduncle .... 5

5. Ocular papilla short and thick, never extends to distal margin of eye; distal half of antennal scale reaching beyond antennular peduncle; telson triangular .................. *D. stenurus* Murano, 1969

- Ocular papilla long and slender, extending beyond distal margin of eye; distal 1/3 of antennal scale extends beyond antennular peduncle; telson liguiform .......................................................... 6

6. Ocular process projecting between the cornea; telson armed with 28 setae; inner ventral margin of the uropod endopod with 1 setae ............. *D. murrayi* .......................................................... Tattersall, 1939

- Ocular process projecting to the distal end of the cornea; telson armed with 15-16 setae; inner ventral margin of the uropod endopod with 3 setae ............. ........................................... *D. corberai* n. sp.

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