

Fig. 67. *Uca vocator* (Herbst). a, second pereiopod of male; b, fifth pereiopod of male; c, second pereiopod of female; d, fifth pereiopod of female. a-c,  $\times 5.5$ ; d,  $\times 5$ . H. Heijn del.

## Museum Hamburg

Paramaribo; J. Michaelis, received 31 January 1889; C. Heller, received 4 August and 16 December 1908. — 8 males, 5 females.

Description. Crane, 1943, p. 38, textfigs. 1D-F, pl. 1 figs. 1, 2 (as *U. murifecenta* Crane).

Remarks. The carapace breadths of the specimens examined vary between 9 and 30 mm. The ovigerous females have cb. 21 to 25 mm; they were collected in the months of March, July, and August.

The specimens agree excellently with Crane's description. In all the male specimens the upper surface of the carapace shows an irregular pattern of a brownish or greyish short pubescence, which distinguishes this species from most other Suriname *Uca*'s. In the females this pubescence is often hardly noticeable, but here the carapace has a field of distinct, though small tubercles extending along the lateral and posterior margins. The front occupies one third of the anterior breadth of the carapace and is somewhat truncated anteriorly. In the males the lower margin of the fixed finger of the large chela lies on a lower level than that of the palm, so that a curve is formed where the one meets the other. The oblique ridge on the inner surface of the palm is tuberculated, but the tubercles are numerous and small and do not or hardly differ in size or density from those found on the rest of the lower half of the inner surface of the palm. The dorsal marginal carina of the carpal cavity curves down and ends in a field of conspicuous tubercles. The two rows of tubercles near the base of the dactylus are diverging. The tip of the fixed finger is trifid. In the upper part of the posterior surface the meri of the first three walking legs of the male show a distinct velvety pubescence, which sometimes also extends slightly on the anterior surface. This pubescence is of an irregular pattern in which vertical lines dominate. The carpus is velvety pubescent except for the lower surface which is devoid of this pile. The velvety pubescence covers the propodus entirely but for a smaller or larger spot in the distal part of both the anterior and posterior surfaces, and one in the proximal ventral part. In the fifth legs the pubescence is visible in the upper part of merus, carpus, and propodus. In the females—though traces of a velvety pubescence may be seen on the merus—the carpus and propodus of the walking legs show no trace of such a pubescence, while only a very few scattered bristles are present; distinct tubercles are present on the posterior surface of the carpus and propodus of the second and third, and on the upper part of these joints in the first walking legs. The merus of the fifth pereopod in the female is, like in the other species of *Uca*, distinctly wider than in the male. The naked carpus and propodus of the first three walking legs of the females of

*U. vocator* serve as an easy means to distinguish these females from those of *U. mordax* and *U. rapax*.

For a long time the identity of Herbst's (1804, p. 1, pl. 59 fig. 1) *Cancer vocator* has been a puzzle, and in the older literature this name has often incorrectly been used for other species of the subgenus *Minuca*. In my opinion, however, there can be little doubt that *Cancer vocator* is identical with *Uca murifecenta* Crane, 1943. Herbst's figure shows an irregular light pattern on the carapace, very similar to that formed on the carapace of *U. murifecenta* by the lighter pubescence. Furthermore in his diagnosis Herbst stated "thorace rugoso". The front of the specimen figured by Herbst agrees quite well with that of *U. murifecenta*. The inner surface of the large chela of Herbst's male shows the posterior of the two rows of tubercles at the base of the dactylus, while there is no trace of the oblique carina, an indication that the latter is not very conspicuous. Herbst stated the fixed finger of the large chela to be without a tooth in the middle of the cutting edge, but in my material such a tooth, be it sometimes very indistinctly, is always present. I can find no other discrepancies between Herbst's description and figure and the present species, apart from a few minor points in the figure which may be due to inaccuracy of the artist. Unfortunately the type specimen of *Cancer vocator* is no longer extant as Dr. H.-E. Gruner of the Berlin Zoologisches Museum was so kind to inform me (1 December 1958, in litt.). Therefore, in order to settle the identity of *Cancer vocator* definitely it seems necessary to select the most typical and best preserved male specimen of the material examined, namely the male (cb. 26 mm) from the shore of the Suriname River near "Purmerend" plantation, Leonsberg, N. of Paramaribo, Suriname (1 April 1957, L. B. Holt-huis no. 1208) as the neotype of *Cancer vocator* Herbst, 1804. The specimen forms part of the collection of the Rijksmuseum van Natuurlijke Historie at Leiden under the registered number Crustacea D 12329. Through this selection the type locality is restricted to Suriname. This seems the more logical as according to Herbst's (1804, p. 6, line 1 from top) own remark he obtained American Crustacea from persons in Holland, and the chances that these actually came from Suriname are great. The present actions have the advantage that (1) the specific name *vocator* is now used for the species to which it in all probability was given by its original author, (2) this name has ceased to be a threat to the stability of well established names used for related species of *Uca*, and (3) it replaces a specific name which has only recently been proposed and which is not yet in general use.

Type locality. "Das Vaterland ist Amerika" (Herbst, 1804, p. 1). By the above neotype selection the type locality is restricted to the west bank of the

Suriname River near plantation "Purmerend", Leonsberg, N. of Paramaribo, Suriname.

Distribution. The present species was described as new by Crane (1943), who based her description on material from various localities in Venezuela (mouth of the San Juan River, Pedernales, and Maracaibo). It seems altogether possible that the specimen from Belize, British Honduras, figured by Rathbun (1918, pl. 134 figs. 3, 4) under the name *Uca mordax* also belongs to the present species. The Leiden Museum possesses a specimen from Trinidad (Lavantille Swamp, S. of Port of Spain, bank of a canal in mangrove swamp; 21 November 1953; G. F. Mees), and two from Tobago (Lambeau River near the sea coast; 15 January 1955; P. Wagenaar Hummelinck no. 656A).

Occurrence in Suriname. The species was found together with *Uca rapax* and *U. mordax* in the muddy estuarine region of Suriname. It seems to penetrate farther inland than *U. rapax*. Without reexamination, the identity of the Suriname *Uca* material which Thompson in 1901 reported upon as *Gelasimus vocator* will remain doubtful; at that time, namely, several species of the genus were confused under the specific name *vocator*.

**Uca (Minuca) cumulanta** Crane, 1943 (textfig. 68a; pl. XIV fig. 3, pl. XV fig. 4)

Museum Leiden

Eastern shore of the mouth of the Suriname River near Braamspunt; mud; 5 April 1957; L. B. Holthuis no. 1219. — 2 males, 2 females.

Paramaribo; 1911; W. C. van Heurn. — 1 male.

Description. Crane, 1943, p. 42, textfigs. 1G-I, pl. 1 figs. 3, 4.

Remarks. This is the smallest of the six species of *Uca* now known from Suriname. The above mentioned males have the carapace breadth between 11 and 12 mm, the females between 9 and 10 mm. The breadth of the front is less than  $\frac{1}{3}$  of the anterior breadth of the carapace. The denticles on the lower orbital margin are very distinct externally, inconspicuous in the inner part of the margin. The large chela of the male differs from that of the male of the other species in that the upper marginal carina of the carpal cavity is merged with the upper margin of the palm and does not curve downwards. The oblique ridge which on the inner surface of the palm extends from the lower margin of the chela towards the carpal cavity bears a single row of large tubercles; this row, after reaching the carpal cavity, turns upwards and continues along the margin of the cavity till it almost reaches the upper margin of the palm. The two rows of tubercles on the inner surface of the



palm near the base of the dactylus meet each other under a distinct angle; the anterior row is very short. The tip of the fixed finger is single or slightly bifid. The walking legs have the posterior surface of their segments smooth; neither in the male nor in the female is there a velvety pubescence on these segments, though there are several small tufts of bristles. The meri of the fifth legs are rather broad. The first pleopods of the male show a tooth on the anterior margin at some distance below the top, which itself is rather blunt (fig. 68a).

Type locality. Pedernales, Venezuela.

Distribution. The species is only known from Venezuela and Suriname.

Occurrence in Suriname. The Braamspunt specimens were collected on an exposed mud flat of very soft mud on the bank of the Suriname River. The species is now for the first time reported from Suriname.

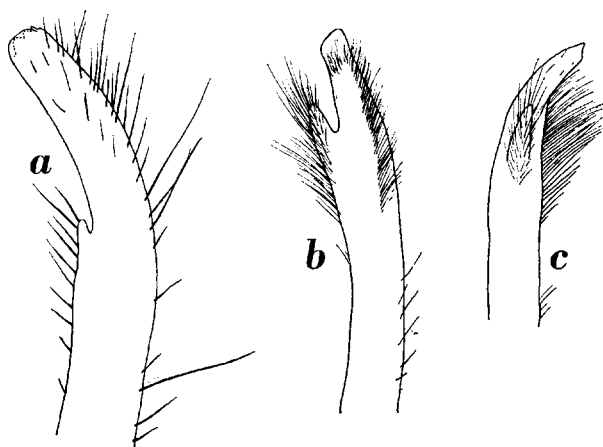


Fig. 68. *Uca cumulanta* Crane. a, top of right first pleopod of male in outer lateral view. *Uca thayeri* Rathbun. b, top of right first pleopod of male in outer lateral view; c, the same in anterior view. a,  $\times 40$ ; b, c,  $\times 12$ .

***Uca (Minuca) thayeri* Rathbun, 1900 (textfig. 68 b, c; pl. XVI)**

Museum Leiden

Shore of Matappica Canal near its mouth; mud; 15-30 August 1957; A. C. J. Burgers. — 2 males, 2 females.

Description. Rathbun, 1918, p. 406, textfig. 169, pl. 144.

Remarks. The above mentioned specimens, which served Dr. Burgers for his experiments on the eye stalk hormones of *Uca*, are in a good condition but for the fact that the eyes have been removed. The males have cb. 29 mm, in the females the cb. is 24 and 30 mm.

The species differs from the other Suriname representatives of the subgenus *Minuca* Bott in that the front is narrowly trapezoid, measuring at its base less than  $\frac{1}{5}$  of the carapace breadth. The carapace in both males and females shows a pubescence which resembles that of the males of *Uca vocator*, but as a rule is more evenly distributed over the carapace. The surface of the carapace in the males is finely shagreened all over, more coarsely so in the anterior part than in the posterior. In the females this shagreen is less conspicuous, it is even absent from the central part of the carapace.

The denticles on the lower orbital margin are very distinct throughout. The suborbital region is naked.

The large chela of the male has the fixed finger straight and tapering at the top, which is practically simple; there is only a faint indication of two tubercles next to the tip. The lower margin of the palm is distinctly carinate. The oblique ridge on the inner surface of the palm bears a single row of large and distinct tubercles, which, when attaining the carpal cavity, curves upwards and follows the margin of this cavity. The dorsal marginal carina of the carpal cavity runs practically parallel to the upper margin of the palm, deviating only slightly downwards in its distal part. In this way it only indicates the upper and not the anterior margin of the cavity. The two rows of tubercles near the base of the dactylus are distinct and run parallel. The walking legs have the meri unusually broad; in the males of *U. thayeri* the meri are about as broad as those of the females of *U. rapax*, while those of the females of *U. thayeri* are still broader. The walking legs of the males of *U. thayeri* have the upper part of the merus, carpus and propodus with a distinct velvety pubescence; the lower part of the propodus is naked and smooth. In the females this pubescence is even more dense and in the propodus it reaches to or almost to the lower margin.

The male pleopod is figured here. It is characterized by having a process on the anterior margin and by the truncated tip. It agrees with Bott's (1954, fig. 5) figure of this organ.

Type locality. Mouth of Rio Paraíba at Cabedelo, Paraíba State, N. E. Brazil.

Distribution. West Indies (Jamaica, Puerto Rico, Curaçao), Suriname, Brazil (north and east coast S. to Espiritu Santo State); also reported from the American Pacific coast (El Salvador). The Rijksmuseum van Natuurlijke Historie possesses a female specimen from Piscadera Bay, Curaçao (28 January 1957, L. B. Holthuis no. 1071).

Occurrence in Suriname. The species is now reported for the first time from Suriname, where it evidently lives in the same habitat as *Uca rapax*. Among the thousands of specimens of the latter species collected by Dr.

Burgers only four specimens of *U. thayeri* were found. This checks very well with my experience with this species in Curaçao. There, in a mudflat behind a mangrove fringe along the shore of Piscadera Bay, numerous *Uca* were observed, the majority (several thousands of specimens) belonged to *Uca rapax* (Smith), also *Uca speciosa* (Ives) was rather common there, but less frequent than *U. rapax*, the third species was *Uca major* (Herbst) (= *U. heterochelos* (Lamarck)), which was quite rare, though at each visit of the mud flat several specimens could be observed. Of *Uca thayeri* a single female was collected, and though the mudflat was practically daily visited and special attention was given to this species, no more specimens were observed there.

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     *scutellatus* 122  
*Stenorhynchus seticornis* 184  
*Synalpheus apioceros* 103  
     *brooksi* 104  
  
*Trachypenaeus constrictus* 68  
     *similis* 69  
*Trichodactylus dentatus* 214  
     *serratus* 210  
     *spinifer* 216  
  
*Uca cumulanta* 274  
     *maracoani* 260  
     *mordax* 262  
     *rapax* 266  
     *thayeri* 275  
     *vocator* 269  
*Ucides cordatus* 250  
  
*Valdivia serrata* 210  
  
*Xiphopenaeus kroyeri* 70

## EXPLANATION OF THE PLATES

### Plate I

Figure 1. Suriname River just N. of Kabel (10 April 1957, L. B. Holthuis no. 1236). Typical view of a large river in the interior region of Suriname. Habitat of *Macrobrachium carcinus*, *M. olfersii*, and *Potamocarcinus latifrons*.

Figure 2. Coppename River near its mouth near Boskamp (2 April 1957, L. B. Holthuis no. 1214). Typical view of a large river in the extreme northern part of the coastal region of Suriname. Habitat of *Uca* species, *Sesarma* species, *Goniopsis cruentata*, *Ucides cordatus*, etc.

### Plate II

Figure 1. Ditch along the highway between Paramaribo and Boskamp, at 86 km W. of Paramaribo (2 April 1957, L. B. Holthuis no. 1209). Habitat of *Palaemonetes carteri*.

Figure 2. Bank of ditch in Cocos Polder, Coronie; riddled by the burrows of *Uca* species (11 April 1957, L. B. Holthuis no. 1238).

### Plate III

Figure 1. *Alpheus heterochaelis* Say. Specimen from Braampunt, 5 April 1957.  $\times 1.7$ .

Figure 2. *Scyllarides americanus* Verrill. Male from "Coquette" Sta. 250.  $\times 0.8$ .

Phot. H. F. Roman

### Plate IV

Figure 1. Ditch near Fishery Service Station "Matappica", seen towards the fish ponds (6 April 1957, L. B. Holthuis no. 1221). Locality where *Merguia rhizophorae* was collected, viz., from under a grass sod from the left hand bank near the mouth of the side ditch.

Figure 2. Same ditch seen from the sluice near the fish ponds.

## Plate V

Figure 1. *Libinia ferreirae* De Brito Capello. Female from 6th voyage of the "Coquette". Natural size.

Figure 2. *Callinectes bocourti* A. Milne Edwards. Male from ditch near Fishery Service Station "Matappica", 6 April 1957.  $\times 0.6$ .

Phot. H. F. Roman

## Plate VI

Figure 1. *Paradasygius tuberculatus* (Lemos de Castro). Male from first voyage of the "Coquette." Natural size.

Figure 2. *Heterocrypta caledoniana* Garth, new species. Ovigerous female from third voyage of the "Coquette".  $\times 3$ .

Phot. H. F. Roman

## Plate VII

Figure 1. *Glyptoxanthus vermiculatus* (Lamarck). Male from "Coquette", 19 to 22 July 1957; dorsal view.  $\times 2$ .

Figure 2. Same specimen in ventral view.  $\times 2$ .

Phot. H. F. Roman

## Plate VIII

Figure 1. *Panopeus herbstii* H. Milne Edwards. Female from north coast of Suriname near mouth of Matappica Canal, 6 April 1957.  $\times 1.3$ .

Figure 2. *Eurytium limosum* (Say). Male from Coronie, 23 November 1948. Natural size.

Figure 3. *Pseudothelphusa wymani* Rathbun. Male from Nassau Mts., 1948-1949 Suriname Exped. no. 7957; dorsal view. Natural size.

Figure 4. *Pseudothelphusa wymani* Rathbun. Same specimen in ventral view. Natural size.

Phot. H. F. Roman

## Plate IX

Figure 1. *Pseudothelphusa denticulata* (H. Milne Edwards). Male from Nassau Mts., 1948-1949 Suriname Exped. no. 8365; dorsal view.  $\times 0.9$ .

Figure 2. *Pseudothelphusa denticulata* (H. Milne Edwards). Same specimen in ventral view.  $\times 0.7$ .

Figure 3. *Ocypode quadrata* (Fabr.). Male from beach near the Wia-wia Bank, 1948-1949 Suriname Exped. no. 2618.  $\times 0.9$ .

Phot. H. F. Roman

## Plate X

Figure 1. *Pseudothelphusa colosii* Coifmann. Male from Nassau Mts., 1948-1949 Suriname Exped. no. 8078; dorsal view. Natural size.

Figure 2. *Pseudothelphusa colosii* Coifmann. Same specimen in ventral view. Natural size.

Figure 3. *Pachygrapsus gracilis* (De Saussure). Female from ditch near the Fishery Service Station "Matappica", 6 April 1957.  $\times 2$ .

Phot. H. F. Roman

## Plate XI

Figure 1. *Aratus pisonii* (H. Milne Edwards). Specimen from Matappica Creek near Alliance, 6 April 1957.  $\times 1.3$ .

Figure 2. *Sesarma curacaoense* De Man. Specimen from ditch near the Fishery Service Station "Matappica", 6 April 1957.  $\times 1.4$ .

Figure 3. *Sesarma ricordi* H. Milne Edwards. Specimen from the north coast of Suriname near the mouth of the Matappica Canal, 6 April 1957.  $\times 1.3$ .

Figure 4. *Sesarma rectum* Randall. Specimen from the mouth of the Coppename River near Boskamp, 2 April 1957.  $\times 1.3$ .

Phot. H. F. Roman

## Plate XII

Figure 1. *Cardisoma guanhumii* Latreille. Male from Suriname River near "Purmerend" plantation, Leonsberg; dorsal view.  $\times 0.4$ .

Figure 2. *Cardisoma guanhumii* Latreille. Same specimen in frontal view.  $\times 0.37$ .

Phot. D. C. Geijskes

## Plate XIII

*Uca maracoani* (Latreille). Adult male near entrance of burrow, near Fishery Service Station "Matappica", 7 August 1957.

Phot. A. C. J. Burgers

## Plate XIV

Figure 1. *Uca vocator* (Herbst). Neotype.  $\times 1.2$ .

Figure 2. *Uca mordax* (Smith). Male from Agricultural Experiment Garden, Paramaribo, 21 October 1939.  $\times 1.3$ .

Figure 3. *Uca cumulanta* Crane. Male from Paramaribo, 1911.  $\times 2.4$ .

Figure 4. *Uca rapax* (Smith). Male from the bank of the Suriname River near "Purmerend" plantation, 1 April 1957. Natural size.

Figure 5. *Uca rapax* (Smith). Intersex from 3 km N. of the highway Coronie-Paramaribo, 1948-1949 Suriname Exped. nos. 4413, 4416; dorsal view.  $\times 1.6$ .

Figure 6. *Uca rapax* (Smith). Same specimen in ventral view.  $\times 1.6$ .

Phot. H. F. Roman

#### Plate XV

Figure 1. *Uca vocator* (Herbst). Chela of male from Cocos Polder, Coronie, 11 April 1957; inside view.  $\times 3$ .

Figure 2. *Uca mordax* (Smith). Chela of male from Marowijne River near Galibi, 9 November 1948; inside view.  $\times 4$ .

Figure 3. *Uca rapax* (Smith). Chela of male from Coronie, June 1911; inside view.  $\times 2.8$ .

Figure 4. *Uca cumulanta* Crane. Chela of male from Suriname River near Braamspunt, 5 April 1957; inside view.  $\times 4$ .

Phot. H. F. Roman

#### Plate XVI

Figure 1. *Uca thayeri* Rathbun. Male from Matappica Canal.  $\times 1.4$ .

Figure 2. *Uca thayeri* Rathbun. Female from Matappica Canal.  $\times 1.7$ .

Figure 3. *Uca thayeri* Rathbun. Chela of male from Matappica Canal; inside view.  $\times 1.7$ .

Phot. H. F. Roman

