

## A CHECKLIST OF CRUSTACEA OF ST. CROIX, VIRGIN ISLANDS<sup>1</sup>

The present checklist on the crustacea of St. Croix is one of a series intended to cover comprehensively the natural history of this Island. It is based on extensive fieldwork with the Virgin Islands Department of Health by the writer from 1935 to 1944. The material is deposited in the U.S. National Museum. (Specimens were preserved in a 60-percent alcohol solution.) A total of 90 genera, 132 species is recorded.

In its scope the present list includes many crustaceans not recorded in the writer's previous paper "The Brachyuran Crabs of St. Croix" which, through force of circumstances, was prepared as a separate.

Crustaceans are found in a remarkably wide variety of situations. Accordingly, collecting techniques varied and were often novel. A variety of nets and fishtraps was employed. Much of the marine material could not have been taken without the cooperation of individual deep-sea fishermen. Whenever the fishtraps were set deeper than 4 fathoms it was necessary to haul them up speedily and dump the contents into the boat to intercept the more active crabs and shrimps. Another method used employed crushed bait, usually a large crab, to attract crabs into the shallows.

Minute crustaceans that remained concealed in clusters of seaweed and blocks of dead coral were flushed out by placing the material in basins of fresh water. Insect nets of coarse meshbags were most useful for collecting in streams. By pushing the net under the submerged weeds overhanging the banks the shrimps are forced into the trap.

The Island of St. Croix lies between the 17th and 19th parallels north latitude, and 64° 10' and 65° 30' west longitude. The Island is 21 miles in length and 5 miles in greatest width on the western portion, tapering wedge-like to a point on the eastern end. The mountain system extending the length of the Island runs parallel to the North Coast and fans out on the South side in an extensive plain. Radiating spurs form deep valleys and steep ridges, the highest elevation is Mount Eagle which rises to 1,165 feet.

Five depressions along the coasts, formerly fresh to brackish water-holding areas and the habitat of a rich variety of animal life, have been drained. Of

<sup>1</sup> In the preparation of this paper the writer has been most generously assisted by a number of persons. Dr. Waldo L. Schmitt, Curator, Division of Marine Invertebrates, U.S. National Museum, obtained determinations of crustacea. Dr. Fenner A. Chace, Jr., Senior Zoologist, Department of Invertebrate Zoology, U.S. National Museum, offered many valuable suggestions, and rendered his kind assistance in the revision of the nomenclature. Mr. J. O. Maloney determined the Tanaidacea and Isopoda, and Mr. C. R. Shoemaker the Amphipoda. Mr. T. E. Bowman checked the Maloney and Shoemaker lists. Mr. Arnold Ross, Department of Living Invertebrates, American Museum of Natural History, kindly updated the nomenclatural Order of the Isopoda and Amphipoda.

the mangrove swamps, former prosperous wildlife sanctuaries on the Island, several have been filled in under private and Government land reclamation programs. During the past 20 years many flowing streams have dried up, and the few trickling waterways during the wet season are reduced to pools in the dry season.

Precipitation varies from 30 to 90 inches from year to year; the normal average is 46 inches annually, with irregular periods of severe drought.

CHECKLIST

- Order Stomatopoda  
 Family Squillidae  
*Gonodactylus oerstedii* Hansen In dead coral, Salt River reef. Under rocks in shallows, Judith Fancy Bay.  
*Pseudosquilla ciliata* (Fabricius) In dead corals, Salt River reef.
- Order Tanaidacea  
*Leptochelia forresti* (Stebbing) From seaweed in shallows, Envy Bay.
- Order Isopoda  
 Suborder Flabellifera  
 Family Cirolanidae  
*Cirolana parva* Hansen In moss on dead corals, Salt River Bay.  
 Family Excirolanidae  
*Excirolana mayana* (Ives) On moss-covered submerged mangrove branches, Fairplain Lagoon.  
 Family Excorallanidae  
*Excorallana oculata* (Hansen) In moss on coral reef, Salt River Bay.  
 Family Cymothoidae  
*Anilocra laticauda* M. Edwards Taken from gill plates of fish, red snapper.
- Suborder Oniscoidea  
 Family Tylidae  
*Tylos latreilli* A. & S. Under moist seaweed on beach, South Gate Bay.  
 Family Armadillidiidae  
*Cubaris murina* Brandt From a deserted bird nest, Sight.  
*Paracerceis caudata* (Say) In moss on corals, Salt River Bay.
- Order Amphipoda  
 Suborder Gammaridea  
 Family Hyalidae  
*Allorchestes* sp. On moss-covered submerged mangrove branches, Fairplain Lagoon  
 Family Ampithoidae  
*Cymadusa filosa* Savigny On moss-covered submerged mangrove branches, Fairplain Lagoon.  
 Family Gammaridae  
*Elasmopus* sp. On moss in shallows, Salt River Bay.  
*Melita palmata* (Mentagu) On moss-covered submerged mangrove branches, Fairplain Lagoon.  
*Metaniphargus* sp. In a brackish water well. Frederiksted.

- Family Ampithoidae  
*Ampithoe megaloprotopus* Stebbing On moss in shallows, Salt River Bay.
- Family Talitridae  
*Orchestia platensis* (Kroyer) Under moist seaweed on beach, South Gate.
- Family Atylidae  
*Atylus minikoi* (Walker) On moss-covered submerged mangrove branches, Fairplain Lagoon.
- Family Corophiidae  
*Grandidierella megnae* (Giles) On moss-covered submerged mangrove branches, Fairplain Lagoon; on seaweed in shallows, Envy Bay.

## DECAPOD CRUSTACEANS COLLECTED AT ST. CROIX BY HARRY A. BEATTY

## Order Decapoda

## Suborder Natantia

## Section Penaeidea

## Family Penaeidae

## Subfamily Penaeinae

*Penaeopsis (Metapenaeopsis)*  
*smithi* Schmitt Krause Lagoon.

*Penaeus aztecus* Ives Envy Bay, Krause Lagoon, Salt River Reef.

## Section Caridea

## Family Atyidae

*Atya innocous* (Herbst) Upper Love, Fairplain, Caledonia, Crique, La Grange, streams, Mt. Welcome Swamp.

*Potimirin americana* (Guérin-Méneville) Mt. Welcome Swamp.

*Xiphocaris elongata* (Guérin-Méneville) Upper Love, Fairplain, Caledonia, Bethlehem, Prosperity Garden, streams; Mt. Welcome Swamp; Morning Star Swamp; Rustoptwist Pond.

## Family Palaemonidae

## Subfamily Palaemoninae

*Macrobrachium acanthurus*  
(Wiegmann) Two Williams Pond; Morning Star Swamp; Mt. Welcome Swamp.

*Macrobrachium carcinus* (Linnaeus) Upper Love, Caledonia, Lebanon Hill, Windsor, streams.

*Macrobrachium faustinum* (De Saussure) Upper Love, Fairplain, Caledonia, streams; Mt. Welcome Swamp; Two Williams Pond.

*Macrobrachium* sp. Mt. Welcome Swamp.

*Palaemon (Palaeander) northropi* (Rankin) Salt River Reef, seaweed.

*Palaemon (Palaemon) pandaliformis* (Stimpson) Mt. Welcome Swamp.

- Subfamily Pontoniinae  
*Periclimenes (Harpilius) americanus* (Kingsley) Salt River Reef, seaweed.
- Family Alpheidae  
*Alpheus bahamensis* Rankin Salt River Reef from Corals.  
*Alpheus floridanus* Kingsley Krause Lagoon, seaweed.  
*Alpheus formosus* Gibbes Salt River Reef in Corals.  
*Alpheus viridari* (Armstrong) Krause Lagoon; Salt River Reef, seaweed.
- Family Hippolytidae  
*Latreutes fucorum* (Fabricius) Floating gulf weed.  
*Thor floridanus* Kingsley? Salt River Reef in Corals.
- Suborder Reptantia  
Section Macrura  
Family Palinuridae  
*Panulirus argus* (Latreille)  
Family Scyllaridae  
*Scyllarides aequinoctialis* (Lund)
- Section Anomura  
Family Porcellanidae  
*Petrolisthes tridentatus* Stimpson  
Family Coenobitidae  
*Coenobita clypeatus* (Herbst)  
Family Diogenidae  
*Clibanarius cubensis* (De Saussure)  
*Clibanarius tricolor* (Gibbes)  
*Dardanus*, sp.  
*Petrochirus bahamensis* (Herbst)
- Family Paguridae  
*Pagurus marshi* Benedict  
Family Hippidae  
*Hippa cubensis* (De Saussure)
- Section Brachyura  
Family Dromiidae  
*Dromia erythropus* (G. Edwards)  
*Dromidia antillensis* Stimpson  
Family Homolidae  
*Homologenus rostratus* (A. Milne-Edwards)  
Family Dorippidae  
*Cymonomus quadratus* A. Milne-Edwards  
Family Leucosiidae  
Subfamily Eballiinae  
*Lithadia granulosa* A. Milne-Edwards  
Family Calappidae  
Subfamily Calappinae  
*Calappa angusta* A. Milne-Edwards

- Calappa ocellata* Holthuis  
*Calappa gallus* (Herbst)  
 Subfamily Matutinae  
*Osachila antillensis* Rathbun
- Family Majidae  
 Subfamily Inachinae  
*Anomalothir furcillatus*  
 (Stimpson)  
*Euprognatha gracilipes* A.  
 Milne-Edwards  
*Stenorhynchus seticornis*  
 (Herbst)
- Subfamily Ophthalmiinae  
*Pitho lherminieri* (Schramm)
- Subfamily Acanthonychinae  
*Acanthonyx petiverii* H. Milne-  
 Edwards  
*Epialtus biluberculatus* H.  
 Milne-Edwards  
*Menaethiops portoricensis*  
 Rathbun
- Subfamily Pisinae  
*Chorinus heros* (Herbst)  
*Trachymaia cornuta* A. Milne-  
 Edwards
- Subfamily Mithracinae  
*Macrocoeloma diplacanthum*  
 (Stimpson)  
*Macrocoeloma eutheca* (Stimp-  
 son)  
*Microphrys bicornutus* (La-  
 treille)  
*Mithrax (Mithrax) acuticornis*  
 Stimpson  
*Mithrax (Mithrax) caribbaeus*  
 Rathbun  
*Mithrax (Mithrax) hispidus*  
 (Herbst)  
*Mithrax (Mithrax) holderi*  
 Stimpson  
*Mithrax (Mithrax) pilosus*  
 Rathbun  
*Mithrax (Mithrax) pleura-  
 canthus* Stimpson  
*Mithrax (Mithraculus) coryphe*  
 (Herbst)  
*Mithrax (Mithraculus) forceps*  
 (A. Milne-Edwards)  
*Mithrax (Mithraculus) sculptus*  
 (Lamarek)

- Teleophrys ornatus* Rathbun  
 Family Parthenopidae  
 Subfamily Parthenopinae  
*Heterocrypta granulata*  
 (Gibbes)  
*Solenolambrus tenellus* Stimp-  
 son  
 Family Portunidae  
 Subfamily Portuninae  
*Callinectes bocourti* A. Milne-  
 Edwards  
*Callinectes exasperatus* (Ger-  
 staecker)  
*Callinectes marginatus* (A.  
 Milne-Edwards)  
*Callinectes ornatus* Ordway  
*Callinectes sapidus acutidens*  
 Rathbun  
*Portunus (Achelous) sebae* (H.  
 Milne-Edwards)  
 Family Pseudothelphusidae  
*Epilobocera sinuatifrons* (A.  
 Milne-Edwards)  
 Family Xanthidae  
*Actaea acantha* (H. Milne Ed-  
 wards)  
*Actaea rufopunctata nodosa*  
 Stimpson  
*Actaea setigera* (H. Milne Ed-  
 wards)  
*Carpilius corallinus* (Herbst)  
*Chlorodiella longimanus* (H.  
 Milne-Edwards)  
*Eriphia gonagra* (Fabricius)  
*Eurypanopeus abbreviatus*  
 (Stimpson)  
*Eurytium limosum* (Say)  
*Leptodius floridanus* (Gibbes)  
*Micropanope barbadensis* (Rath-  
 bun)  
*Micropanope lobifrons* A. Milne-  
 Edwards  
*Micropanope pusilla* A. Milne-  
 Edwards  
*Micropanope sculptipes* Stimpson  
*Micropanope urinator* (A. Milne-  
 Edwards)  
*Ozius reticulatus* (Desbonne and  
 Schramm)  
*Panopeus bermudensis* Benedict  
 and Rathbun

*Panopeus herbstii* H. Milne Edwards, *forma typica*

*Panopeus herbstii*, *forma crassa*  
A. Milne-Edwards

*Panopeus herbstii*, *forma simpsoni*  
Rathbun

*Panopeus occidentalis* De Saussure

*Pilumnus marshi* Rathbun

*Pilumnus reticulatus* Stimpson,  
*forma fragosa* A. Milne-Edwards

*Xanthodius denticulatus* (White)

Family Palicidae

*Palicus affinis* A. Milne-Edwards  
and Bouvier

*Palicus angustus* Rathbun

*Palicus depressus* Rathbun

*Palicus sicus* (A. Milne-Edwards)

Family Grapsidae

Subfamily Grapsinae

*Geograpsus lividus* (H. Milne-Edwards)

*Goniopsis cruentata* (Latreille)

*Grapsus grapsus* (Linnaeus)

*Pachygrapsus corrugatus* (Von Martens)

*Pachygrapsus gracilis* (De Saussure)

*Pachygrapsus transversus*  
(Gibbes)

Subfamily Sesarminae

*Aratus pisonii* (H. Milne Edwards)

*Cyclograpsus integer* H. Milne Edwards

*Sesarma (Holometopus) americanum* De Saussure

*Sesarma (Holometopus) ricordi*  
H. Milne-Edwards

Subfamily Plagusiinae

*Percnon gibbesi* (H. Milne-Edwards)

*Plagusia depressa* (Fabricius)

Family Gecarcinidae

*Cardisoma guanhumi* Latreille

*Gecarcinus lateralis* (Fremenville)

*Gecarcinus ruricola* (Linnaeus)

Family Ocypodidae

Subfamily Ocypodinae

*Ocypode quadrata* (Fabricius)  
*Uca (Minuca) leptodactylus*  
Rathbun  
*Uca (Minuca) burgersi* Halthuis  
*Uca (Minuca) rapax* (Smith)

*Harry A. Beatty*  
*2254 Washington Avenue*  
*New York N.Y. 10457*