A CHECKLIST OF CRUSTACEA OF ST. CROIX, VIRGIN ISLANDS

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

1 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 Tanaidaceae 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
   Pseudosquilla ciliata (Fabricius)

Order Tanaisacea
   Leptocheilina forresti (Stebbing)

Order Isopoda
Suborder Flabellifera
   Family Cirolanidae
      Cirolana parva Hansen
      Family Excirolanidae
         Excirolana mayana (Ives)

   Family Exciorallanidae
      Excorallana oculation (Hansen)
      Family Cymothoidae
         Anilocra laticauda M. Edwards

Suborder Oniscoidea
   Family Tylidae
      Tylos laireilli A. & S.
   Family Armadilliidae
      Cubaris murina Brandt
      Paracerceis caudata (Say)

Order Amphipoda
Suborder Gammaridea
   Family Hyalidae
      Allorcheles sp.
   Family Ampithoidae
      Cymadusa filosa Savigny
   Family Gammaridae
      Elasmopus sp.
      Melita palmata (Mentagu)
      Metaniphargus sp.

In dead coral, Salt River reef. Under rocks in shallows, Judith Fancy Bay.
In dead corals, Salt River reef.

From seaweed in shallows, Envy Bay.

In moss on dead corals, Salt River Bay.

On moss-covered submerged mangrove branches, Fairplain Lagoon.

In moss on coral reef, Salt River Bay.

Taken from gill plates of fish, red snapper.

Under moist seaweed on beach, South Gate Bay.

From a deserted bird nest, Sight.
In moss on corals, Salt River Bay.

On moss-covered submerged mangrove branches, Fairplain Lagoon.

On moss-covered submerged mangrove branches, Fairplain Lagoon.

On moss in shallows, Salt River Bay.

On moss-covered submerged mangrove branches, Fairplain Lagoon.

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  
*Penaeus aztecus* Ives  
Krause Lagoon.

*Penaeus*  

Family Atyidae  
*Atyla innocoKS* (Herbst)  
Upper Love, Fairplain, Caledonia, Crique, La Grange, streams, Mt. Welcome Swamp.

*Xiphocaris elongata* (Guérin-Méneville)  
Mt. Welcome Swamp.

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

Section Caridea  
Family Atyidae  
*Atya innocoKS* (Herbst)  
Upper Love, Fairplain, Caledonia, Crique, La Grange, streams, Mt. Welcome Swamp.

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

*Macrobrachium carcinos* (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)

**Family Alpheidae**

*Alpheus bahamensis* Rankin
*Alpheus floridanus* Kingsley
*Alpheus formosus* Gibbes
*Alpheus viridarius* (Armstrong)

**Family Hippolytidae**

*Latreutes fucorum* (Fabricius)
*Thor floridanus* Kingsley?

**Suborder Reptantia**

**Section Macrura**

**Family Palinuridae**

*Panulirus argus* (Latreille)

**Family Scyllaridae**

*Scyllarides aquinoctialis* (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 Ebaliinae**

*Lithadia granulosa* A. Milne-Edwards

**Family Calappidae**

**Subfamily Calappinae**

*Calappa angusta* A. Milne-Edwards

Salt River Reef, seaweed.

Salt River Reef from Corals.
Krause Lagoon, seaweed.
Salt River Reef in Corals.
Krause Lagoon; Salt River Reef, seaweed.
Floating gulf weed.
Salt River Reef in Corals.
<table>
<thead>
<tr>
<th>Species</th>
<th>Author</th>
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<tr>
<td>Calappa ocellata</td>
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<td>Osachila antillensis</td>
<td>Rathbun</td>
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<td>Family Majidae</td>
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<td>Anomalothir fuscillatus</td>
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<td>Euprognatha gracilipes A. Milne-Edwards</td>
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<td>Acanthonyx petiverii H. Milne-Edwards</td>
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<td>Epialtus bituberculatus H. Milne-Edwards</td>
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<td>Menaethiops portoricensis</td>
<td>Rathbun</td>
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<td>Trachymaia cornuta A. Milne-Edwards</td>
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<td>Macrocoeloma eutheca (Stimpson)</td>
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<td>Microphrysis bicornutus (Latreille)</td>
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<tr>
<td>Mithrax (Mithrax) acuticornis Stimpson</td>
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<td>Mithrax (Mithrax) caribbaeus Rathbun</td>
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<td>Mithrax (Mithrax) holderi Stimpson</td>
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<td>Mithrax (Mithrax) pilosus Rathbun</td>
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<td>Mithrax (Mithrax) pleurafrancus Stimpson</td>
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<td>Mithrax (Mithraculus) coryphe (Herbst)</td>
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<td>Mithrax (Mithraculus) forceps (A. Milne-Edwards)</td>
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<tr>
<td>Mithrax (Mithraculus) sculptus (Lamarck)</td>
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Teleophrys ornatus Rathbun

Family Parthenopidae
Subfamily Parthenopinae
Heterocrypta granulata
(Gibbes)
Solenolambrus tenellus Stimpson

Family Portunidae
Subfamily Portuninae
Callinectes bocourtii A. Milne-Edwards
Callinectes exasperatus (Gersdorff)
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-Edwards)
Actaea rufopunctata nodosa Stimpson
Actaea setigera (H. Milne-Edwards)
Carpilius corallinus (Herbst)
Chlorodiella longimanus (H. Milne-Edwards)
Eriphia gonagra (Fabricius)
Eurypanopeus abbreviatus (Stimpson)
Eurytium limosum (Say)
Leptodius floridanus (Gibbes)
Micropanope barbadensis (Rathbun)
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 Saus- sure
Pilumnus marshi Rathbun
Pilumnus reticulatus Stimpson,
forma fragosa A. Milne-Ed- 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 Saus- sure)
Pachygrapsus transversus
(Gibbes)
Subfamily Sesarminae
Aratus pisonii (H. Milne Ed- wards)
Cyclograpsus integer H. Milne Edwards
Sesarma (Holometopus) ameri- canum De Sausssure
Sesarma (Holometopus) ricordi
H. Milne-Edwards
Subfamily Plagusiinae
Percnon gibbesi (H. Milne-Ed- Edwards)
Plagusia depressa (Fabricius)
Family Gecarcinidae
Cardisoma guanhumi Latreille
Gecarcinus lateralis (Fremin- ville)
Gecarcinus ruricola (Linnaeus)
Family Ocypodidae
Subfamily Ocypodinae
Ocypride quadrata (Fabricius)
Uca (Minuca) leptodactylus
Rathbun
Uca (Minuca) burgersi Halthuis
Uca (Minuca) rapax (Smith)

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