

STUDIES ON THE FAUNA OF CURAÇAO AND OTHER
CARIBBEAN ISLANDS: No. 31. 1

**A SURVEY OF THE LITTORAL GASTROPODA OF THE
NETHERLANDS ANTILLES AND OTHER
CARIBBEAN ISLANDS**

by

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This brief survey is based on the material collected by Dr. P. WAGENAAR HUMMELINCK in 1936/37, 1948/49, and 1955. Station numbers only are cited; they refer to the "Description of new localities" in Volume IV of this series (1953; marine habitats p. 56-77) and to a "Third list of localities" which will be published in a forthcoming volume. Other localities, which are not numbered, are, as a rule, briefly described in the text.

Material assembled by a few other collectors has been added to HUMMELINCK's collection. The names of the collectors are always mentioned, abbreviated as follows:

Av.: R. AVELEDO, Caracas	Ga.: WIESJE and HENDRIKJE,
Be.: J. G. VAN DEN BERGH, Aruba	the two little daughters of
Bl.: T. BLOK, Curaçao	Mr. and Mrs. K. J. VAN
Bo.: Mrs VAN DEN BOS, St Maarten	GAALEN, Aruba.
Co.: R. M. COLLENS, Tobago	Za.: J. S. ZANEVELD, Curaçao.

For the sake of completeness the material discussed by TERA VAN BENTHEM JUTTING in her paper on "Marine Molluscs of the Island of Curaçao" (1927) has been included (indicated by v.B.J.), together with a few other data on Netherlands Antilles Gastropoda from the literature of the subject, including those mentioned by J. J. SCHEPMAN in his contribution (1915) to the *Encyclopaedie van Nederlandsch West-Indië* (indicated by SCH.).

Dr. HUMMELINCK informed me that a considerable part of his marine material has not yet been examined for the presence of Gastropoda, and that the majority of the samples collected by Dr. ZANEVELD in Curaçao, Aruba, and Bonaire (1954/55), and in the Aves Islands (1956), still await further study.

In this survey only Gastropoda are discussed which were found in shallow water or had been cast ashore, with the exception of a few species which were trawled by skipper BLOK from water of about 20 fathoms north of Margarita. In point of fact all Caribbean shallow-water Gastropoda are mentioned, with the exception of the Opisthobranchiata without an external shell.

As regards the families, this study has been systematically based on J. THIELE's *Handbuch der Systematischen Weichtierkunde*, Vols. I (1929) and II (1931); only a few exceptions have been made. The subgenera are not mentioned.

After each locality the number of specimens is recorded in brackets, printed in italics if specimens were found alive. When this number exceeds 25, the sign & (&) has been used. Young specimens are indicated by juv, shell fragments by fragm. — Many shells were occupied by hermit crabs, mostly *Coenobita clypeata* (abbreviated *Coen.*). A large number of these crabs were identified by Dr. J. H. HOLTHUIS, Leiden.

In the text attention is drawn to rare specimens, and to localities situated outside the territory in which the species was hitherto known to occur.

The photographs were taken by Dr. WAGENAAR HUMMELINCK, with the expert assistance of Mr. H. VAN KOOTEN, at the Zoological Laboratory of the State University, Utrecht, soon after the author had to leave for Curaçao in order to continue his malacological studies. Dr. HUMMELINCK also compiled the accompanying table and the map, in an attempt to enhance the value of this otherwise rather dry publication to all those interested in the sea-fauna of the Caribbean.

Many thanks are due to Mrs. W. S. S. VAN DER FEEN (formerly Miss TERA VAN BENTHEM JUTTING) for the way in which she introduced the present writer to malacology, and for her kind help in the course of this investigation.

The material has been presented to the Zoological Museum of Amsterdam, with the exception of two small collections which are now in the Caribbean Marine Biological Institute, Curaçao, and the Zoological Laboratory at Utrecht. The latter contains the Secretariat of the Foundation for Scientific Research in Surinam and the Netherlands Antilles, which has greatly facilitated this work.

Attention is drawn to the following terms, which are often given different meanings but which here cover the areas as stated:

West Indies	eastern coast of Florida, Bahamas, Antilles, Central and South American coast from Yucatán as far as Orinoco River. (Bermudas excluded!)
Florida	Atlantic coast of Florida and Florida Keys.
Antilles	from Cuba to Trinidad and Aruba.
Greater Antilles.	from Cuba to Puerto Rico.
Lesser Antilles	from Virgin Islands to Trinidad and Aruba.
Gulf of Mexico	western coast of Florida to Yucatán.

Up to December 1956 the following *numbers of species of Gastropoda Prosobranchia from the Netherlands Antilles* had been examined by the author. To these must be added several species known from literature only (cited below between brackets). More thorough exploration of the shores of the islands will doubtless result in a quick and considerable increase in the numbers of species studied.

Aruba	132	}	176 (19)	}	179 (20)
Curaçao	124 (45)				
Klein Curaçao	46	}	. 129 (45)		
Klein Bonaire	59				
Bonaire	79	}	. 99		
St Maarten	77 (2)				
Saba	27	}	91 (2)		
St. Eustatius	40				

N.B. The station number of Five Island Bay, LA FOURCHE (near St. Barthélemy) is 1124; not 1122, as stated in *Studies 4*, p. 67 (and p. 56).

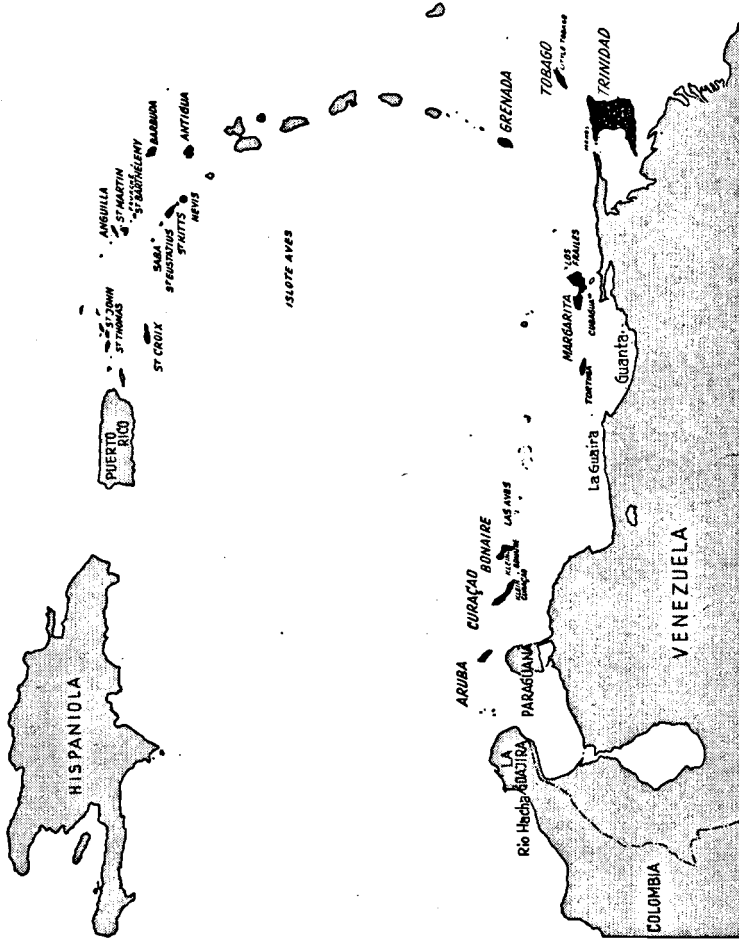


Fig. 16. Localities of the marine gastropoda treated in in this paper.

Species	South American mainland	Aruba	Curaçao	Klein Curaçao	Klein Bonaire	Bonaire	Margarita, Cubagua	Trinidad	Tobago	Grenada	Isolate Aves	Antigua	Barbuda	St. Kitts	St. Eustatius	Saba	St. Barthélemy, Fourche	St. Martin	Anguilla	St. Croix	St. John, St. Thomas	Bimini, New Providence	Plate
- ocellata		X																					
<i>Laiyus brevicaudatus</i>		X																					
- infundibulum																							
- eppi																							
- distinctus																							
<i>Oliva reticularis</i>			X	X	X	X																	
- fusiformis						X						X							X				
<i>Olivella jaspidea</i>			X	X	X	X																	
- nivea			X	X	X	X																	
- myriadina			X	X	X	X																	
- mutica			X	X	X	X					X												
<i>Ancilla glabrata</i>	X	X																					
- tankervilli		X																					
<i>Mitra barbadensis</i>						X	X																
- nodulosa						X	X																
<i>Turricula dermestina</i>						X	X																
<i>Vasum capitellum</i>					X	X	X				X												
- muricatum						X	X																
<i>Volva musica</i>						X	X																
<i>Marginella marginata</i>	X	X	X	X	X	X				X													
- margarita																							
- obscura																							
<i>Persicula chrysomelina</i>			X	X	X	X																	
- catenata			X	X	X	X																	
- lavalleana			X	X	X	X																	
- interruptolineata			X	X	X	X																	
<i>Hyalina avena</i>			X	X	X	X																	
- lactea			X	X	X	X					X												
<i>Conus ranunculus</i>			X	X	X	X					X												
- citrinus			X	X	X	X																	
- regius			X	X	X	X																	
- daucus			X	X	X	X																	
- dominicanus			X	X	X	X																	
- granulatus			X	X	X	X																	
- jaspideus			X	X	X	X																	
- spurius		X	X	X	X	X					X												
- verrucosus			X	X	X	X																	
- perryae			X	X	X	X																	
<i>Daphnella lymnaeiformis</i>			X	X	X	X																	
<i>Terebra cinerea</i>			X	X	X	X																	
- hastata			X	X	X	X																	
- dislocata			X	X	X	X																	
<i>Eurita aciculata</i>			X	X	X	X																	
<i>Hydatina vesicaria</i>			X	X	X	X																	
<i>Micromelo undata</i>			X	X	X	X																	
<i>Bulla spec.</i>		X	X	X	X	X																	
<i>Melampus coffeus</i>		X	X	X	X	X																	
- lineatus		X	X	X	X	X																	
<i>Tralia pusilla</i>		X	X	X	X	X																	
<i>Siphonaria pectinata</i>	X	X	X	X	X	X																	
- alternata																							

To be added to this list:

Ave de Barlovento (Las Aves): *Strombus gigas*.

Tortuga: *Strombus gigas*, *Melongena melongena*.

Margarita: *Fusus spec.*

Los Frailes: *Tectarius muricatus*, *Tralia pusilla*.

Nevis: *Trona zebra*, *Cassia tuberosa*, *Cypraeacassis testiculus*.

Tintamarre (near St. Martin): *Fissurella angusta*, *Submarginula octoradiata*, *Tectarius muricatus*.

Hispaniola: *Batillaria minima*.

Jamaica: *Fissurella barbadensis*, *Nerita tessellata*, *Littorina nebulosa*, *L. ziczac*, *Melongena melongena*,

Bulla spec.

Bermudas: *Fissurella barbadensis*, *Nerita tessellata*.

GASTROPODA PROSOBRANCHIA

FISSURELLIDAE

This family has many species in the West Indies, in five genera. — *Diodora*, syn. *Glyphis*. — See: FARFANTE 1943, 1947; PILSBRY & JOHNSON 1891.

Fissurella barbadensis (Gmelin)

Plate V

ARUBA: 1002 (1); 1301 (3); Druif, 30.IV.1955 (2); Malmok, 1955 (Ga.) (1). CURAÇAO: 1018 (9, 2); 1018A (2); 1020A (14); 1020B (4, 6); 1021 (5); 1022 (2); 1023 (1); 1324 (17); Boca Westpunt, 2.XI.1954 (Za.) (3); Boca Santa Marta, 12.XII.1954 (Za.) (3); Boca San Juan, 6.III.1955 (2); Caracasbay, Spanish Bay, Boca Labadera, Westpunt (v.B.J., p. 18); (SCH.). KLEIN CURAÇAO: E. shore, 1.X.1948 (5). KLEIN BONAIRE: 1049B (14); 1367 (3); 1369 (7); 1371 (1); N Shore, 20.III.1955 (2); NE coast, 31.VIII.1948 (2); SE shore, 20.VIII.1955 (6); W shore, 28.III.1955 (5). BONAIRE: 1056A (1); 1056Ba (1); 1057A (1); 1057C (1); 1059A (5); 1377 (1); S of Kralendijk, 10.IX.1948 (1). CUBAGUA: SW coast, 21.V.1936 (8). TRINIDAD: 1384 (1). GRENADA: Martin's Bay, St George, 22.I.1955 (3); White Bay, 26.I.1955 (7). ANTIGUA: 1393 (7). ST KITTS: 1398 (14); Frigate Bay, 20.VII.1955 (6). ST EUSTATIUS: 1116 (2); 1118 (2); 1119 (3). SABA: 1120 (3). ST BARTS: 1121 (1). FOURCHE: 1124 (6, 1). ST MARTIN: 1125 (3); 1125A (7); 1126 (2, 3); 1128 (1); 1399 (1, 2); Mullet Pond Bay, 27.VI.1955 (1); Simson Bay, new beach near bridge, 6.VI.1955 (1); Great Bay, 17.III.1937 (4), and 1955 (Bo.) (16). ST CROIX: Frederiksted beach, 11.VI.1955 (2). ST JOHN: 1407 (1, 19); 1408 (2). JAMAICA: St Ann's Bay, 28.III.1926 (1). N Bimini: 1152 (14). BERMUDA: Hamilton, 18.III.1926 (4).

West Indies, from México to Guyana, Bermudas.

Fissurella nodosa (Born)

Plate V

ARUBA: 1308 (1); (Be.) (2). CURAÇAO: 1023 (1); Caracasbay, Spanish Bay and Boca Grandi (v.B.J., p. 18); (SCH.). KLEIN CURAÇAO: E shore, 1.X.1948 (7). BONAIRE: S of Kralendijk, 10.IX.1948 (1). TRINIDAD: 1384 (5). TOBAGO: 1388 (1); (Co.) (3). GRENADA: White Bay, 26.I.1955 (2). BARBUDA: 1395 (1). ST KITTS: 1398 (3). ST EUSTATIUS: 1119 (1). SABA: 1120 (5). ST MARTIN: 1399 (3, 1). ST JOHN: 1407 (5, 5).

West Indies, Gulf of Mexico.

Fissurella nimbosa (Linné)

Plate IV

ARUBA: 1311 (3). TRINIDAD: 1384 (12). ST KITTS: 1397 (15); 1398 (1, 4). ST EUSTATIUS: 1119 (10, 1).

Puerto Rico and Lesser Antilles, South American coast from Colombia as far as Brasil. — Not common.

Fissurella angusta (Gmelin)

Plate V

CURAÇAO: 1018 (3); 1019 (r); (v.B.J., p. 18, sub *F. barbadensis* var. *schrammi*).
 KLEIN CURAÇAO: 1046 (r). TRINIDAD: 1384 (1). TOBAGO: 1388 (r); (Co.) (1).
 GRENADA: 1389 (5). ST. KITTS: 1398 (2). ST BARTS: 1121 (2). FOURCHE:
 1124 (1). TINTAMARRE: White Bay, 20.VI.1949 (1). ST MARTIN: Great Bay,
 1955 (Bo.) (2). ST JOHN: 1407 (3).

West Indies to Guyana.

Fissurella rosea (Gmelin)

Plate IV

ARUBA: 1301 (2). KLEIN CURAÇAO: E shore, 1.X.1948 (1). BONAIRE: Lac,
 Cay, 1.IX.1948 (1 juv.). GRENADA: White Bay, 26.I.1955 (1). ST KITTS:
 1397 (r5). ST EUSTATIUS: 1117 (3); 1118 (3).

West Indies to Brasil.

Fissurella punctata Fischer

Plate V

FOURCHE: 1124 (r). ST MARTIN: 1399 (1).

Antilles and Bahamas. — Rare.

Fissurella fascicularis Lamarck

Plate IV

CURAÇAO: (v.B.J., p. 19) (2). KLEIN CURAÇAO: 1046 (2); E shore, 1.X.1948
 (7). ST MARTIN: 1126 (1).

West Indies. — Rare.

Lucapina sowerbii (Sowerby)

Plate II

Syn. *L. adspersa* (Philippi).

ARUBA: 1007 (r). CURAÇAO: 1033 (r); Spanish Water (v.B.J., p. 19, sub
L. adspersa).

West Indies to Brasil. — Rare.

Lucapina suffusa (Reeve)

Syn. *L. cancellata* (Sowerby).

CURAÇAO: Caracasbay, Spanish Water, Schottegat (v.B.J., p. 19, sub *L.*
cancellata).

West Indies. — Rare.

Lucapina aegis (Reeve) — Florida and Cuba.

Lucapina philippiana (Finlay) — Bahamas to Virgin Islands.

Emarginula pumila (A. Adams)

Plate II

Syn. *E. rolandii* Fischer.

ARUBA: 1002 (1); Boekoeti, 17.I.1949 (1). CURAÇAO: 1020B (1); 1020C (r); 1039 (r); Spanish Water (v.B.J., p. 20, sub *Subemarginula rolandii*).

ST MARTIN: 1131 (j); Great Key, Simson Bay Lagoon, 2. VIII. 1949 (r).

West Indies to Brasil. — Not common.

Subemarginula octoradiata (Gmelin)

Plate II

ARUBA: 1301 (z, 2); Pova Beach, X.1954 (Be.) (1). CURAÇAO: 1017 (j); 1018 (z); 1020 (r, 1); 1020A (z); 1020B (z, 2); 1023 (1); 1029 (z); 1029A (r); Boca Westpunt, 2.XI.1954 (Za.) (4); Boca Santa Marta, 12.XII.1954 (Za.) (1); Boca Santa Marta, 24.II.1955 (3); Caracasbay and Spanish Bay (v.B.J., p. 20). KLEIN BONAIRE: N shore, 20.III.1955 (3); SE shore, 20.VIII.1955 (5). TRINIDAD: 1384 (1). GRENADA: St George, beach, 22.I.1955 (2); White Bay, 26.I.1955 (3). ANTIGUA: 1393 (6). BARBUDA: 1395 (r). ST KITTS: 1398 (12). ST EUSTATIUS: Back-off Bay, 15.VI.1949 (r). SABA: 1120 (r). ST BARTS: 1121 (z). TINTAMARRE: White Bay, 20.VI.1949 (1). ST MARTIN: 1125 (r); 1126 (r); Great Bay, 1955 (Bo.) (1). ANGUILLA: 1142 (z). ST JOHN: 1407 (10); 1408 (1).

West Indies.

Subemarginula emarginata (Blainville)

Plate II

CURAÇAO: Beach at Santa Marta, 12.XII.1954 (Za.) (1); Caracasbay (v.B.J., p. 20).

West Indies. — Not common.

Diodora listeri (d'Orbigny)

Plate III

ARUBA: 1301 (1); Pova Beach, 27.IV.1955 (1); Malmok, 1954 (Be.) (1). CURAÇAO: 1020A (r); 1020D (r); Boca Santa Marta, 12.XII.1954 (Za.) (1); Beach of Santa Marta, 24.II.1955 (1); Caracasbay, Spanish Bay and Westpunt (v.B.J., p. 19, sub *Glyphis listeri*); (Sch., sub *Gl.l.*). KLEIN BONAIRE: 1049B (j); N shore, 20.III.1955 (2); SE shore, 20.VIII.1955 (2); W shore, 28.III.1955 (1). BONAIRE: 1056A (z); 1056Ca (r); 1056B (z). TRINIDAD: 1384 (1). TOBAGO: 1385 (z, 1). ANTIGUA: 1393 (3). ST KITTS: Frigate Bay, 20.VII.1955 (1). ST EUSTATIUS: 1116 (1); 1116B (r). SABA: 1120 (1). ST MARTIN: 1127 (r); 1130A (1); 1402 (1); Simson Bay, new beach at bridge, 6.VI.1955 (1); Great Bay, 1955 (Bo.) (2). ST JOHN: 1407 (3); 1408 (1). N BIMINI: 1152 (z).

West Indies to Guyana, Bermudas.

Diodora cayenensis (Lamarck)

Plate II

Syn. *D. alternata* Say, *D. sayi* Dall.

LA GOAJIRA (Col.): Rio Hacha, 20.I.1937 (1). ARUBA: 25.VI.1930 (2).
 CURAÇAO: 1361 (1); Spanish Water (v.B.J., p. 19, sub *Glyphis alternata*).
 BONAIRE: 11.V.1930 (x). CUBAGUA: NW shore, 21.V.1936 (1). TRINIDAD:
 1384 (7). BARBUDA: Martello Tower beach, 8.VII.1955 (1). ST MARTIN:
 Great Bay, 17.III.1937 (x); Simson Bay, new beach at bridge, 6.VI.1955 (1).

West Indies to Brasil and Maryland, Gulf of Mexico.

Diodora dysoni (Reeve)

Plate III

ARUBA: 1001A (1); 1004 (2); Pova Beach, 27.IV.1955 (8). CURAÇAO: 1020A
 (x); 1021 (2); 1036 (2); 1038 (x); 1038a (x); 1039 (x); 1039A (x, 1); Spanish
 Water (v.B.J., p. 19, sub *Glyphis alternata* var. *dysoni*). BONAIRE: 1056C (2);
 1057C (1). MARGARITA: 1216 (x). ANTIGUA: 1393 (4). BARBUDA: Martello
 Tower beach, 8.VII.1955 (4). ST EUSTATIUS: 1118 (x). SABA: 1120 (x). ST
 MARTIN: 1131 (x); Simson Bay Lagoon, Great Key, 2.VIII.1949 (1).

West Indies to Brasil, Bermudas.

Diodora viridula (Lamarck)

Plate III

ARUBA: 1002 (1). CURAÇAO: W and N coast (v.B.J., p. 20, sub *Glyphis*
viridula) SABA: 1120 (x). ST BARTS: 1121 (x). ST MARTIN: Great Bay, 1955
 (Bo.) (1).

West Indies, Gulf of Mexico.

Diodora minuta (Lamarck)

Plate I

ARUBA: 1002 (1); Boekoeti, 17.I.1949 (2). CURAÇAO: 1020B (1); Caracasbay
 (v.B.J., p. 19, sub *Glyphis minuta* and *G. variegata*). KLEIN CURAÇAO:
 E shore, 1.X.1948 (2). KLEIN BONAIRE: 1371 (1). BONAIRE: 1058C (2);
 1059B (x); Lac, Cay, 1.III.1948 (1). TRINIDAD: 1382 (x). ISLOTE AVES:
 1114 (3). ST BARTS: 1121 (4). ST MARTIN: 1128 (1); 1132A (1); Simson Bay
 Lagoon, Great Key, 2.VIII.1949 (1).

West Indies. — New for the southern Caribbean.

Diodora arcuata (Sowerby) — Florida to Trinidad.

ACMAEIDAE

There is one genus of this family in the West Indies, with four species.

Acmaea antillarum (Sowerby)

Plate I

Syn. *A. candeana* (d'Orbigny), *A. tenera* (C. B. Adams).

ARUBA: 1301 (1); Malmok (Ga.) (1). CURAÇAO: 1020B (4). KLEIN CURAÇAO: E shore, 1.X.1948 (2). KLEIN BONAIRE: N shore, 20.III.1955 (1). TRINIDAD: 1382 (1); 1384 (15, 4). TOBAGO: 1388 (6); Rockley Bay, 20.I.1955 (1). LITTLE TOBAGO: landing, 18.I.1955 (2). ANTIGUA: 1393 (2). ST KITTS: 1397 (11, 2); 1398 (1, 8); Frigate Bay, 20.VII.1955 (9). ST EUSTATIUS: 1116 (5); 1117 (4); 1118 (2); 1119 (6). SABA: 1120 (15); Spring Bay, tidal zone, 28.VII.1949 (2). ST BARTS: 1121*(3). FOURCHE: 1124 (10). ST MARTIN: 1125 (7); 1125A (4); 1126 (13); Great Bay, 1955 (Bo.) (3). ST JOHN: 1407 (1, 2). ST THOMAS: near Airport, 17.VI.1955 (1).

West Indies.

Acmaea pustulata (Helbling)

Plate III

Syn. *A. punctulata* (Gmelin). — According to ABBOTT 1954, *Acmaea pulcherrima* Guilding may be considered as a deep-water form of *A. pustulata*.

ARUBA: 1002 (13); 1004 (5); 1301 (2); Pova Beach, 27.IV.1955 (9). CURAÇAO: 1019 (2); 1020 (1); 1020A (5); 1020B (5); 1036 (2); 1036a (1); Caracasbay, Spanish Bay and Spanish Water (v.B.J., p. 16, sub. *A. punctulata*); (Sch., sub *A. punct.*). KLEIN BONAIRE: 1049B (1); 1371 (3, 1); NE coast, 31.VIII.1948 (2); N shore, 20.III.1955 (1). BONAIRE: 1056Ba (1); 1056C (1); 1057 (1); 1057A (1); 1057B (1); 1057C (1 juv.); 1059B (2); 1067 (1); 1068a (1, 1); 1071A (1); Cay, Lac entrance, 25.II.1949 (1). ANTIGUA: 1393 (3). ST KITTS: 1397 (1); Frigate Bay, 20.VII.1955 (1). ST EUSTATIUS: 1116 (1). ST BARTS: 1121 (1 juv.). ST MARTIN: 1125A (2); 1130A (1); 1132A (1 juv.); 1399 (1); Simson Bay, new beach, 6.VI.1955 (1); Great Bay, 1955 (Bo.) (2). ST JOHN: 1407 (1).

West Indies.

Acmaea leucopleura (Gmelin)

Plate I

Syn. *A. cubensis* (Reeve), *A. simplex* Pilsbry, *A. melanoleuca* Dall.

ARUBA: 1301 (3). CURAÇAO: Boca Grandi (v.B.J., p. 16); (Sch.). KLEIN CURAÇAO: 1046 (1); E shore, 1.X.1948 (1). BONAIRE: 1377 (1). TOBAGO: 1388 (5); (Co.) (1). ANTIGUA: 1393 (10). BARBUDA: 1395 (5). ST KITTS: 1398 (12). ST MARTIN: 1125 (11); 1125A (3); 1126 (2); 1399 (2); Simson Bay, new beach, 6.VI.1955 (2); Great Bay, 1955 (Bo.) (2). ANGUILLA: 1142 (1, 1). ST CROIX: Frederiksted beach, 11.VI.1955 (2). ST JOHN: 1407 (12, 5); 1408 (1). NEW PROVIDENCE: Nassau, 16.VIII.1949 (2). N BIMINI: 1152 (3).

West Indies.

Acmaea jamaicensis (Gmelin)

Plate I

Syn. *A. albicosta* C. B. Adams, *A. fungoides* (Röding).ARUBA: 1311 (4). CURAÇAO: 1324 (3). BONAIRE: 1058B (2); 1378 (Za.) (3).
GRENADA: 1389 (7). SABA: 1120 (5). ST MARTIN: 1399 (1).

West Indies.

TROCHIDAE

This family comprises many deep-water species. — The genus *Tegula* (syn. *Chlorostoma*) has four species in the West Indies. — See: CLENCH & ABBOTT 1943.*Livona pica* (Linné)ARUBA: 1308 (1); cave of Lago Colony, 15.I.1949 (4 fragm); Boca Prins shell mound, 26.VII.1949 (2 fragm); Seroe Noka shell mound, 11.V.1955 (9); Malmok, 1954 (Be.) (4). CURAÇAO: 1018 (1 juv); 1020 (1 juv); 1324 (1, 2 juv); 1361 (1); abri of Rooi Rincón, Hato, 11.VIII.1949 (2); Boca Westpunt, 2.XI.1954 (Za.) (6); Playa Frankie, 27.II.1955 (1, with *Coen.*); Boca Santa Marta, 1.XI.1954 (Za.) (1, with *Coen.*); Caracasbay, Spanish Bay, Spanish Harbour, Spanish Water, Boca Grandi and Boca Labadera (v.B.J., p. 17); (SCH.). KLEIN CURAÇAO: 1046 (1 juv); E shore, 1.X.1948 (2). KLEIN BONAIRE: 1049A (1 juv.); 1378 (2, 5 juv); E shore (2), S shore (1), SW coast (2), N shore, 30.III.1955 (2). BONAIRE: 1056A (1 juv); 1056Ba (5 juv); 1056C (1); 1057A (1 juv); 1057B (6 juv); 1058B (6 juv); 1059 (5 juv); 1059A (2); 1060A (Za.) (1, 2 juv.); 1375 (6, 5 juv); 1378 (Za.) (2, 5 juv); shell mound near Lac, 27.III.1955 (3 fragm); Lagoen, 2.IV.1955 (1, with *Coen.*); near Spelonk, 15.IV.1955 (4, with *Coen.*). TOBAGO: 1388 (1); Buccoo Bay, 16.I.1955 (2). LITTLE TOBAGO: landing, 18.I.1955 (1). GRENADA: 1389 (3, 2 juv); S of St George's, 22.I.1955 (1, with *Coen.*); Point Salines, 26.I.1955 (1, with *Coen.*). ISLOTE AVES: 1115 (1); E shore, 12.V.1949 (1). ANTIGUA: 1393 (6). ST KITTS: Frigate Bay, 20.VII.1955 (1 fragm). BARBUDA: 1395 (1); Martello Tower beach, 8.VII.1955 (1 fragm); Highlands, 10.VII.1955 (7, with *Coen.*). ST EUSTATIUS: 1116 (7 juv). SABA: 1120 (3 juv). ST BARTS: 1121 (7 juv). FOURCHE: 1124 (2 juv). ST MARTIN: 1125 (♂); 1125A (♂ juv); 1126 (2 juv); 1399 (22); 1399C (3); Point Blanche Bay, 5.VI.1955 (1); Flamingo Pond, Low Lands, 27.VI.1955 (2, with *Coen.*). ANGUILLA: 1142 (1, 1 juv). ST CROIX: Canaän, gut, 22.VI.1955 (6, with *Coen.*); Canaän stream, 10.VI.1955 (1). ST JOHN: 1407 (12 juv, 5 juv); 1408 (3 juv). ST THOMAS: Magens Bay shell mound, 20.VI.1955 (6, 3 fragm). N BIMINI: 1152 (1, 1 juv).

West Indies, Bermudas.

Tegula excavata (Lamarck)CURAÇAO: Boca of Spaanse Baai, 16.X.1948 (1 with hermit crab); Caracasbay and Spanish Bay (v.B.J., p. 17, sub *Chlorostoma excavatum*). TOBAGO:

1388 (g); Rockley Bay, 20.I.1955 (1). LITTLE TOBAGO: landing, 18.I.1955 (1). ANTIGUA: 1393 (7). ST KITTS: 1397 (2); 1398 (6); Frigate Bay, 20.VII.1955 (4). ST EUSTATIUS: 1116 (4). FOURCHE: 1124 (2). ST MARTIN: 1125 (x).

Antilles.

Tegula fasciata (Born)

ARUBA: East side of Dakota airport, 13.I.1949 (1); Malmok, 1955 (Ga.) (3); (SCH., sub *Neomphalius fasciatus*). CURAÇAO: (v.B.J., p. 17, sub *Chlorostoma fasciatum*); (SCH., sub *Neomph. fasc.*).

West Indies. — Not common.

Tegula scalaris (Anton)

Syn.: *T. lividomaculata* (C. B. Adams), *T. indusi* "Gmelin".

ST BARTS: 1121 (x). FOURCHE: 1124 (x). ST MARTIN: 1126 (x). ST JOHN: 1408 (1).

West Indies.

Tegula maculostriata (C. B. Adams)

Syn. *T. hotesseri* (d'Orbigny).

CURAÇAO: 1020A (x); Caracasbay, Spanish Bay and Westpunt (v.B.J., p. 16, sub *Chlorostoma maculostriatum*); (SCH., sub *Neomphalius maculostriatus*). BONAIRE: 1375 (8). TRINIDAD: 1382 (6). TOBAGO: 1387 (1); 1388 (x); (Co.) (1). LITTLE TOBAGO: landing, 18.I.1955 (7). GRENADA: 1389 (2). ISLOTE AVES: 1114 (x). ANTIGUA: 1393 (2). ST KITTS: 1398 (4, 3). ST EUSTATIUS: 1116 (x). SABA: 1120 (x). ST BARTS: 1121 (2). FOURCHE: 1124 (5). ST MARTIN: 1126 (1); Great Bay (Bo.) (1). ST JOHN: 1407 (3); 1408 (x, 1).

Antilles.

Calliostoma jujubinum (Gmelin)

ANTIGUA: 1393 (1).

Antilles. — Rare.

Calliostoma zonamestrum (A. Adams)

ARUBA: Malmok, 1955 (Ga.) (2).

West Indies. — Rare.

TURBINIDAE

Four species of *Turbo* are present in the West Indies. — *Astraea* Röding 1798, syn. *Astralium* Link 1807, has ten species in the Caribbean. — *Phasianella*, syn. *Tricolia*.

***Turbo canaliculatus* Herrmann**

Syn. *T. spenglerianus* Gmelin.

ARUBA: Malmok, 1955 (Ga.) (2). ST MARTIN: Simson Bay, new beach near bridge, 6.VI.1955 (1).

Antilles, Gulf of Mexico. — Rare.

***Turbo castaneus* Gmelin**

CURAÇAO: 1018 (r). ANTIGUA: 1393 (1); Shell Beach at Barnacle Point, 13.VII.1955 (1). ST MARTIN: 1127 (2); Simson Bay, new beach at bridge, 6.VI.1955 (1). ST JOHN: 1407 (1).

The specimens may belong to one of the three forms of *T. castaneus*, discerned by AGUAYO & JAUME 1947, which were originally described as *crenulata* Gmelin, *quadriseriata* Anton and *subcastanea* Pilsbry.

West Indies to North Carolina, Gulf of Mexico. — Not common.

Turbo cailetti Fischer & Bernardi — Guadeloupe.

Turbo filusus (Wood) — Cuba, Florida.

***Astraea caelata* (Gmelin)**

ARUBA: (Be.) (1). CURAÇAO: (SCH., sub *Astralium coelatum*). KLEIN BONAIRE: W shore, 28.III.1955 (1). TOBAGO: Rockley Bay, 20.I.1955 (1). ISLOTE AVES: E shore, 12.V.1949 (1). BARBUDA: 1395 (r). ST EUSTATIUS: 1116B (r); De Kant, Quill, 12.VII.1949 (1, with *Coen.*). SABA: 1120 (r). ST MARTIN: 1132 (r). ST CROIX: Canaän, gut, 22.V.1955 (1, with *Coen.*). ST THOMAS: Magens Bay shell mound, 20.VI.1955 (1).

West Indies.

***Astraea tuber* (Linné)**

CURAÇAO: Abri of Rooi Rincón, Hato, 11.VIII.1949 (1); Boca Santa Marta, 12.XII.1954 (Za.) (1). TOBAGO: 1388 (3). GRENADA: 1389 (1). ANTIGUA: 1393 (r, 2). ST KITTS: 1398 (1). ST EUSTATIUS: 1116 (r, 1); 1116B (2); De Kant, Quill, 12.VII.1949 (1). ST MARTIN: 1125 (8); Simson Bay Lagoon, muddy sand flat, N of bridge, 6.VI.1955 (1); Great Bay, 25.VII.1955 (1); Great Bay, 1955, (Bo.) (13). ST JOHN: 1407 (3).

West Indies.

***Astraea longispina* (Lamarck)**

CURAÇAO: 1039 (r). MARGARITA: (Av.) (2). ST EUSTATIUS: 1116B (r juv).
ST MARTIN: 1125 (1 juv).

West Indies. — Not common.

***Astraea imbricata* (Gmelin)**

ARUBA: 1002 (4); 1303, sandy debris (1); Malmok (Ga.) (4). CURAÇAO:
Westpunt, 2.XI.1954 (Za.) (1); Boca Santa Marta, 12.XII.1954 (Za.) (2);
Santa Marta, 20.XI.1955 (Za.) (2, with *Coen.*); abri of Rooi Rincón. Hato.
11.VIII.1949 (1); Caracasbay (v.B.J., p. 17, sub *Astraliium imbricatum*);
(SCH., sub *Astral. imbr.*). ANTIGUA: 1393 (r). ST JOHN: 1407 (r).

West Indies.

***Astraea brevispina* (Lamarck)**

MARGARITA: (Av.) (1).

West Indies. — Rare.

***Astraea spinulosa* (Lamarck)**

ST THOMAS: Near Airport, 17.VI.1955 (2).

West Indies. — Rare.

Astraea undosa (Wood) — an eastern American species, mentioned from CURAÇAO
(v.B.J., p. 17, sub *Astraliium undosum*), but considered as doubtful.

Astraea deplanata (Link) — West Indies.

Astraea latispina (Philippi) — Gulf of Mexico to Brasil.

Astraea americana (Gmelin) — West Indies.

Astraea cubana (Philippi) — West Indies.

***Liotia radiata* (Kiener)**

ARUBA: 1002 (4). CURAÇAO: Caracasbay (v.B.J., p. 17).

Antilles.

***Liotia tamsiana* (Dunker)**

CURAÇAO: Caracasbay, Westpunt (v.B.J., p. 17).

Antilles.

Phasianella affinis C. B. Adams

MARGARITA: 1216 (r).

West Indies. — Rare.

Phasianella tessellata Potiez & Michaud

ARUBA: Boekoeti, 17.I.1949. ANTIGUA: 1393 (r). NEVIS: Fort Charles, S of Charlestown, 28.VI.1949. ST KITTS: 1397 (&). ST EUSTATIUS: 1118 (r). SABA: 1120 (2). ST JOHN: 1408 (1).

Antilles.

Phasianella pulchella C. B. Adams — West Indies.

NERITIDAE

There are six species of *Neritina* in the Antilles, but five are found in fresh and brackish water. — See: ANDREWS 1933, 1940; BAKER 1923, RUSSELL 1941, 1941.

Nerita peloronta Linné

Plate VI

ARUBA: 1303 (r); Spaans Lagoen shell mound, 1.V.1955 (15); cave of Lago Colony, 15.I.1949 (2 fragm). CURAÇAO: 1017 (3); 1018 (r); 1020 (3); 1020B (2); 1039 (r); 1322 (2); 1336 (Za.) (4); Boca Westpunt, 2.XI.1954 (Za.) (r, 1); abri of Rooi Rincón, Hato, 11.VIII.1949 (1, 1 fragm); near cave of Hato, 19.I.1955 (1 fragm); Spanish Water, Spanish Harbour, Caracasbay and Spanish Bay (v.B.J., p. 18); (SCH.). KLEIN CURAÇAO: E shore, 1.X.1948 (1). KLEIN BONAIRE: 1049A (g). BONAIRE: 1056 (2); 1057A (2); 1059A (r); 1060A (4); 1071C (r3); 1373 (4); 1375 (r); 1377 (6); 1378 (5); Boca di Lac, 17.IX.1948 (r); Lagoen, 2.IV.1955 (1, with *Coen.*); near Spelonk, 15.IV.1955 (2, with *Coen.*). TOBAGO: (Co.) (1). ST KITTS: 1398 (r); Frigate Bay, 20.VII.1955 (2). SABA: 1120 (r); 1121 (2); Spring Bay, 28.VII.1949 (r). BARBUDA: 1395 (r4). ST BARTS: Mar des Palmiers, W. of Lorient, well of mesohaline water some 200 m from sea (Sta. 524), 3.VI.1949 (r). FOURCHE: 1124 (2). ST MARTIN: 1125A (r); 1399 (r); 606 (r); Lay Bay, 27.V.1949 (ro); Pelican Cay, 3.VIII.1949 (r). ST JOHN: 1407 (r, 1).

West Indies, Bermudas.

Nerita tessellata Gmelin

Plate VI

ARUBA: 1007A (r); 1308 (Za.) (5); 1309 (23); Pova Beach, 27.IV.1955 (2); Malmok, 1954 (Be.) (2). CURAÇAO: 1018 (2r); 1018A (5); 1020A (2o); 1020B (&); 1020C (2); 1022 (rr); 1023 (1); 1025 (r); 1322 (&); 1336 (Za.) (2); Boca Westpunt, 2.XI.1954 (Za.) (2); Boca Santa Marta, 12.XII.1954 (Za.) (1); Spanish Bay, Caracasbay and Boca Labadera (v.B.J., p. 17); (SCH.). KLEIN

CURAÇAO: 1046 (9); E shore, 1.X.1948 (2, 10). KLEIN BONAIRE: 1049A (1); 1049B (1, 1); 1367 (1); 1369 (2, 1); 1371 (2); NE coast, 31.VIII.1949 (1). BONAIRE: 1055 (1); 1056 (2); 1056A (♂); 1056Ba (1♂); 1057A (1♂); 1057B (♂); 1058A (5); 1059 (5); 1059A (1); 1071C (1); 1373 (2); 1375 (1♂); 1377 (2♂); 1378 (1♂); 1060A (1♂); Boca di Lac, 17.IX.1948 (2). TOBAGO: 1388 (2); (Co.) (1). LITTLE TOBAGO: landing, 18.I.1955 (3, 1). GRENADA: 1389 (4); 1391 (1); White Bay, 26.I.1955 (2); Martins' Bay, St George's, 22.I.1955 (4, with *Coen.*). ISLOTE AVES: 1114 (1♂). ANTIGUA: 1393 (1♂, 6). BARBUDA: 1395 (4). ST KITTS: 1397 (1♂); 1398 (7); Frigate Bay, 20.VII.1955 (4). ST EUSTATIUS: 1116 (7); Back-off Bay, 15.VII.1949 (1♂). SABA: 1120 (5); Spring Bay, 28.VII.1949 (9, 1). ST BARTS: 1121 (2). FOURCHE: 1124 (♂). ST MARTIN: 1125 (3); 1125A (5, 2); 1126 (♂); 1130A (1); 1399 (1, 2); Lay Bay, 27.V.1949 (7); Great Bay, 1955 (Bo.) (4). ANGUILLA: 1142 (♂). ST CROIX: Frederiksted, 11.VI.1955 (3). ST JOHN: 1407 (♂); 1408 (1). ST THOMAS: Red Hook, 18.VI.1955 (1). N BIMINI: 1152 (♂). JAMAICA: St Ann's Bay, 28.III.1926 (1). BERMUDAS: Hamilton, 18.III.1926 (2).

West Indies to Pará (Brasil), Gulf of Mexico, Bermudas.

Nerita versicolor Gmelin

Plate VI

Syn. *N. variegata* Chemnitz.

ARUBA: 1007A (1); 1309 (1, 5); 1311 (1); Spaans Lagoen shell mound, 1.V.1955 (8); Malmok, 1954 (Be.) (1). CURAÇAO: 1018 (1♂); 1020A (3); 1020B (7); 1024 (2); 1322 (♂); 1336 (Za.) (♂); Boca Westpunt, 2.XI.1954 (Za.) (5); Boca Santa Marta, 12.XII.1954 (Za.) (1, 1 with *Coen.*); Spanish Harbour, Spanish Bay and Caracasbay (v.B.J., p. 18); (*SCH.*, sub *N. variegata*). KLEIN CURAÇAO: 1046 (2); E shore, 1.X.1948 (5). KLEIN BONAIRE: 1049 (2♂); 1369 (1); 1371 (2); NE coast, 31.VIII.1948 (2). BONAIRE: 1056 (♂); 1056A (2♂); 1056Ba (1♂); 1057A (♂); 1058A (1♂); 1058B (1); 1059 (♂); 1060A (1♂); 1070 (1); 1071C (9); 1373 (1♂); 1375 (1♂, 2); 1377 (♂); 1378 (4); Boca di Lac, 17.IX.1948 (9); Cueba Kinkoe, Lima, 16.IX.1948 (1, with *Coen.*); near Spelonk, 15.IV.1955 (2, with *Coen.*). TOBAGO: (Co.) (1). GRENADA: Martin's Bay, St George's, 22.I.1955 (1). ISLOTE AVES: 1114 (1); E coast, 12.V.1949 (1). ANTIGUA: 1393 (1); Barnacle Point; Shell Beach, 13.VII.1955 (1). BARBUDA: 1395 (2♂). ST KITTS: 1398 (9). ST EUSTATIUS: 1116 (5); Back-off Bay, 15.VI.1949 (5). SABA: 1120 (4); Spring Bay, 28.VII.1949 (2). ST BARTS: 1121 (5). FOURCHE: 1124 (1♂). ST MARTIN: 1399 (1♂); Great Bay, 1955 (Bo.) (1); Lay Bay, 27.V.1949 (8); Pelican Cay, 3.VIII.1949 (3). ANGUILLA: 1142 (5). ST JOHN: 1407 (♂, 2); 1408 (1). ST THOMAS: Red Hook, 18.VI.1955 (1); Magens Bay shell mound, 20.VI.1955 (1).

West Indies to Pará (Brasil).

Nerita fulgurans Gmelin

Plate VII

Syn. *N. antillarum* Gmelin.

BONAIRE: 1070c (1). TOBAGO: 1388 (2).

West Indies to Brasil, Bermudas. — Not common.

Puperita pupa (Linné)

Plate VII

CURAÇAO: Spanish Bay (v.B.J., p. 18, sub *Neritina pupa*). BONAIRE: 1378 (Za.) (2).

West Indies. — Rare.

Puperita tristis (d'Orbigny) — West Indies.

Smaragdia viridis (Linné)

Plate VI

This species has two subspecies: *weyssi* Russell, and *viridemaris* Maury; only the first is known to occur in the West Indies.

ARUBA: Pova Beach, 27.IV.1955 (2); Malmok, 1955 (Ga.) (6). CURAÇAO: 1019A (6); 1039 (2). ST KITTS: 1398 (1); Frigate Bay, 20.VII.1955 (1). ST CROIX: 1404 (3); 1406 (2).

West Indies, Gulf of Mexico, Bermudas.

Neritina virginea (Linné)

Plate VII

NE VENEZUELAN MAINLAND: Rio Guanta, N. of Barcelona, in oligohaline water (Sta. 2), 7.IV.1937 (6). CURAÇAO: Caracasbay and Spanish Harbour (v.B.J., p. 18). GRENADA: 1391 (12). ST MARTIN: 1130A (1, 5); 1400 (6). ST CROIX: 1404 (5); 1406 (3).

West Indies to Brasil, Bermudas; Mediterranean Sea.

LITTORINIDAE

The five West Indian *Littorina* species are all present. — See: ABBOTT 1954, BEQUART 1943, CLENCH & ABBOTT 1942, MCGINTY 1939.

Littorina angulifera (Lamarck)

Plate VIII

LA GOAJIRA (Col.): Rio Hacha, 20.I.1937 (2). ARUBA: 1004A (9); 1007A (15). CURAÇAO: 1028A (1); 1036 (1); 1036A (1 juv); 1037A (8); 1325 (17); St Joris Baai, 9.IV.1949 (1); Spanish Water (v.B.J., p. 14); (SCH.). BONAIRE: 1070c (4); 1062a (6). ST CROIX: 1404 (4); Krausse Lagoon, 1954 (G. A. Seaman) (3).

West Indies to São Paulo (Brasil), Bermudas; West Africa from Senegal to Angola, Cape Verde Islands.

Littorina meleagris (Potiez et Michaud)

Plate VIII

CURAÇAO: 1018 (2); 1020 (4); 1020A (3); 1020B (3); 1039A (1). BONAIRE: 1056A (1). TRINIDAD: 1384 (1). ANTIGUA: 1393 (1). ST KITTS: 1397 (12);

Frigate Bay, 20.VII.1955 (2). ST EUSTATIUS: 1119 (17). SABA: 1120 (10).
 BARBUDA: 1395 (1). ST BARTS: 1121 (1). ST MARTIN: 1399 (12). ST JOHN:
 1407 (3).

West Indies.

Littorina nebulosa (Lamarck)

Plate VIII

LA GOAJIRA (Col.): Rio Hacha, 20.I.1937 (10). BONAIRE: 1070c (7); near
 Spelonk, 15.IV.1955 (1, with *Coen.*). TRINIDAD: 1383 (1). GRENADA: 1389 (1).
 JAMAICA: Kingston Harbour, 23.III.1926 (8).

Antilles to Guyana. — Not common.

Littorina mespillum (Megerle von Mühlfeld)

Plate VIII

Syn. *L. minima* (Gray).

ARUBA: 1308 (18). CURAÇAO: 1336 (Za.) (19); Spanish Harbour and Caracas-
 bay (v.B.J., p. 14, sub *L. minima*). BONAIRE: 1056A (2); 1059 (8); 1059A
 (1, 1); 1071C (2); 1375 (1); 1378 (Za.) (6). ST MARTIN: 1399 (2).

West Indies.

Littorina ziczac (Gmelin)

Plate VIII

Syn. *L. lineata* d'Orbigny, *L. carinata* d'Orbigny, *L. cubana* Weinkauff.

ARUBA: 1002 (9); 1311 (6). CURAÇAO: 1018 (12); 1019A (1); 1020 (1); 1021
 (2); 1022 (2); 1024 (3); 1039A (1); 1336 (Za.) (6); Boca Westpunt. 2.XI.1954
 (Za.) (3); Spanish bay (v.B.J., p. 14); (Sch., also sub *L. carinata*). KLEIN
 CURAÇAO: 1046 (8). KLEIN BONAIRE: 1049A (6); 1367 (1). BONAIRE: 1056
 (10); 1057A (22); 1057C(1); 1058A (19); 1058B (1); 1059 (15); 1059A (4);
 1071C (6); 1373 (6); 1375 (5); 1377 (6); 1378 (Za.) (12, 16 juv). TRINIDAD:
 1382 (25); 1384 (6); Gasparo Grande, SW shore, 11.I.1955 (13). TOBAGO:
 1388 (6); Robinson Crusoe Cave near Airport, 17.I.1955 (16). LITTLE
 TOBAGO: landing, 18.I.1955 (6). GRENADA: Martin's Bay, St George's,
 22.I.1955 (5). ISLOTE AVES: SE shore, 12.V.1949 (7). BARBUDA: 1395 (4).
 ST KITTS: 1397 (15); 1398 (11). ST EUSTATIUS: 1116 (21); 1117 (8); 1118 (3);
 1119 (11); Back-off Bay, 15.VII.1949 (4). SABA: 1120 (11); Spring bay,
 28.VII.1949 (9). ST BARTS: 1121 (2). FOURCHE: 1124 (6). ST MARTIN: 1125
 (9); 1399 (11, 3 juv); Lay Bay, 27.V.1949, (9); Pelican Cay, 3.VIII.1949,
 (5). ANGUILLA: 1142 (3). ST CROIX: Frederiksted beach, 11.VI.1955 (3).
 ST JOHN: 1407 (6); 1408 (1). ST THOMAS: Charlotte Amalie, 16.III.1937 (12).
 JAMAICA: 1148 (6). N BIRMINI: 1152 (8).

West Indies to Uruguay, Bermudas, Gulf of Mexico; Pacific coast of America,
 imported through the Panama Canal.

Tectarius muricatus (Linné)

Plate VIII

ARUBA: 1002 (2); 1004A (r); 1308 (Za.) (9); 1309 (1); Boca Prins shell mound, 26.VII.1949 (7); Cueba di Quadirikiri, 30.XII.1948 (1); cave of Lago Colony, 15.I.1949 (1 fragm); Spaans Lagoen shell mound, 1.V.1955 (1); Seroe Noka shell mound, 11.V.1955 (21). CURAÇAO: 1020B (4); 1024 (6); 1039A (r); 1322 (2); 1323 (8); Boca, Spaanse Baai, 16.X.1948 (r); Bron Cajoeda, small pool with oligohaline water, about 700 m from the sea, Hato, 1.X.1936 (WAGENAAR HUMMELINCK 1940, p. 87); near cave of Hato, 19.I.1955 (1); abri of Rooi Rincón, Hato, 11.VIII.1949 (3); Caracasbay, Spanish Bay, Spanish Harbour and Spanish Water (v.B.J., p. 14); (SCH.). KLEIN CURAÇAO: E shore, 1.X.1948 (r4, 9). KLEIN BONAIRE: 1371 (r). BONAIRE: 1056 (r); 1058A (6-); 1059 (4); 1071C (6-); Cay, 17.IX.1948 (5); 1373 (7); 1375 (3); 1377 (r); 1378 (5); Cueba Kinkoe, Lima, 16.IX.1948 (1, with *Coen.*); near Spelonk, 15.IV.1955 (4, with *Coen.*). LOS FRAILES: La Pecha, 19.VI.1936 (3). TOBAGO: 1388 (r). GRENADA: Martin's Bay, St. George's, 22.I.1955 (6, 1). ANTIGUA: 1393 (8). BARBUDA: 1395 (r4). ST KITTS: 1397 (4); 1398 (1); E of Basseterre, 19.III.1937 (12); Frigate Bay, 20.VII.1955 (r). ST EUSTATIUS: 1119 (6-). SABA: 1120 (5). ST BARTS: 1121 (5). FOURCHE: 1124 (5). TINTAMARRE: White Bay, 20.VI.1949 (5). ST MARTIN: 1125A (r1); 1399 (7, 1); Pelican Cay, 3.VIII.1949 (6-). ANGUILLA: 1142 (8). Upper Prickly Pear Island, 17.VI.1949 (3). ST CROIX: Frederiksted beach, 11.VI.1955 (2); Fredensborg Hill, S slope, 11.VI.1955 (2, subfossil). ST JOHN: 1407 (r1). ST THOMAS: Magens Bay shell mound, 20.VI.1955 (4). N BIMINI: 1152 (r); 495 (1); 496 (r0).

West Indies, Bermudas.

Nodillittorina tuberculata (Menke)

Plate VIII

Syn. *Tectarius nodulosus* (Gmelin).

ARUBA: 1002 (4); 1308 (6-); 1309 (r2); 1311 (8); 9.II.1937 (7). CURAÇAO: 1018 (r5); 1018A (r); 1020 (r); 1020B (2); 1021 (3); 1024 (4); 1039A (2); 1336 (r5); Spanish Bay and Spanish Harbour (v.B.J., p. 15, sub *Tectarius nodulosus*); (SCH., sub *Tectarius thiarella*). KLEIN CURAÇAO: 1046 (4 juv). KLEIN BONAIRE: 1049A (r0 juv); 1049B (r juv); 1367 (5); W shore, 25.III.1955 (r). BONAIRE: 1056 (r7); 1057A (r4); 1058A (6-); 1058B (r); 1059 (5); 1059A (4); 1059C (r); 1071 (4); 1071C (6-); 1373 (8); 1375 (2r); 1377 (20); 1378 (Za.) (23); near Spelonk, 15.IV.1955 (1, with *Coen.*). TOBAGO: 1388 (r). ISLOTE AVES: 1114 (r juv); S shore, 12.V.1949 (r9). BARBUDA: 1395 (3). ST KITTS: 1397 (r2); 1398 (r1). ST EUSTATIUS: 1116 (6-); 1117 (2); 1119 (8). SABA: 1120 (8). ST BARTS: 1121 (7). FOURCHE: 1124 (23). ST MARTIN: 1125 (r); 1399 (6-); Lay Bay, 27.V.1949 (13); Pelican Cay, 3.VIII.1949 (2). ANGUILLA: Upper Prickly Pear Island, 486 (r). ST CROIX: Frederiksted beach, 11.VI.1955 (2). ST JOHN: 1407 (r2). N BIMINI: 1152 (r0, 1).

West Indies, Bermudas. — According to AGUAYO & JAUME 1947, p. 99, the species is known from Cuba only.

Echininus nodulosus (Pfeiffer) — Greater Antilles, Bahamas, Florida.

HYDROBIIDAE

According to THIELE 1929, the genus *Truncatella* is classified in this family. — See: CLENCH & TURNER, 1948.

Truncatella pulchella Pfeiffer

Plate XI

ARUBA: 364 (♂). CURAÇAO: 326 (&). KLEIN BONAIRE: 320 (3); 1051 (3). BONAIRE: 180 (10); 180a (♂). ST BARTS: 450 (x). ST MARTIN: 476 (x8); 480 (x); Great Saltpond, SE shore, 19.V.1949 (x). S BIMINI: 1150 (1); 497 (4); 498 (x).

West Indies to North Carolina.

Truncatella bilabiata Pfeiffer

Plate XI

Syn. *T. capillacea* Pfeiffer.

ARUBA: 278 (5); 363 (9); 364 (♂). CURAÇAO: 326 (♂). KLEIN BONAIRE: Salinja, 14.V.1930 (3); NE coast, 31.VIII.1948 (x). BONAIRE: 1066 (x); 180 (♂); 180a (♂); Cay, 27.IX.1930 (22). TOBAGO: 1388 (1).

West Indies; Pacific coast of Panamá; Madeira, Morocco.

Truncatella scalaris (Michaud) — West Indies.

Truncatella succinea C. B. Adams — Greater Antilles, Bahamas.

RISSOIDAE

Many species of this family occur in deeper water. See: ABBOTT, 1954 (p. 137), BARTSCH 1915, DESJARDIN 1949, KREBS, 1873.

Rissoina dubiosa C. B. Adams

CURAÇAO: Caracasbay and Spanish Water (v.B.J., p. 15).
Antilles, Old Providence Island.

Rissoina browniana d'Orbigny

CURAÇAO: Spanish Water (v.B.J., p. 15).
West Indies to North Carolina, Gulf of Mexico.

Rissoina multicostata C. B. Adams

CURAÇAO: 1035 (1).
West Indies.

TURRITELLIDAE

Turritella exoleata (Linné)

CURAÇAO: Boca Santa Marta, 12.XII.1954 (Za.) (1). St Kitts: 1397 (1).
West Indies, Gulf of Mexico. — Rare.

Turritella imbricata (Linné)

Syn. *T. variegata* (Linné).

MARGARITA: (Av.) (1). CUBAGUA: NW shore, 21.V.1936 (3). TRINIDAD:
1382 (1). St Kitts: Frigate Bay, 20.VII.1955 (1).
Antilles. — Not common.

Turritella acropora Dall

ARUBA: Malmok, 1955 (Ga.) (1).
West Indies to North Carolina, Gulf of Mexico. — Rare.

ARCHITECTONICIDAE

Syn. *Solariidae*. — *Architectonica* Röding 1798 (syn. *Solarium* Lamarck 1799) has four species in the West Indies, two of which live in deeper water. — According to AGUAYO & JAUME (1947–1952, p. 300) seven species of *Torinia* occur in the Antilles. — See: BAYER 1940, 1942, 1948.

Architectonica nobile Röding

NE VENEZUELAN MAINLAND: Punta Gorda, near La Guaira, 10.VIII.1948 (1).
PARAGUANÁ: Carirubana, 21.II.1937 (2). ARUBA: Malmok, 1955 (Ga.) (2).
West Indies to North Carolina.

Architectonica krebsii Mörch. — Syn. *Philippia k.* — West Indies.

Torinia bisulcata (d'Orbigny)

CURAÇAO: Caracasbay (v.B.J., p. 15).
West Indies to Massachusetts. — Rare.

Torinia cyclostoma (Menke)

Plate X

CURAÇAO: 1018 (1); Caracasbay (v.B.J., p. 15). BONAIRE: 1059A (r). St
EUSTATIUS: 1117 (r).
West Indies. — Not common.

Torinia aethiops (Menke) — Antilles.

Torinia cylindrica (Gmelin) — Antilles, Gulf of Mexico.

Torinia delphinuloides (d'Orbigny) — Antilles.

Torinia nubila (Menke) — Antilles.

Torinia riisei (Mörch) — St Thomas.

VERMETIDAE

The genera *Tenagodus* and *Vermicularia* are sometimes placed in a separate family, *Tenagodidae*. See: ABBOTT 1954, p. 144.

Vermetus irregularis d'Orbigny

Syn. *Petalocochnus irregularis* (d'Orbigny). — *Vermetus varians* d'Orbigny may be a subspecies of *V. irregularis*. — The specimens are always stuck together, so it is impossible to count them.

ARUBA: Pova Beach, 27.IV.1955 ("3"); Malmok, 1954 (Be.) ("7"). CURAÇAO Spanish Harbour (v.B.J., p. 14, sub *V. varians*). ANTIGUA: 1393 ("1").

West Indies.

Vermetus decussatus (Gmelin)

Syn. *Serpulorbis decussata* (Gmelin).

CURAÇAO: Caracasbay (v.B.J., p. 14). BONAIRE: 1068 (1). ISLOTE AVES: E coast, 12.V.1949 (1). ST EUSTATIUS: 1116 (r). SABA: 1120 (r). ST THOMAS: Magens Bay shell mound, 20.VI.1955 (1).

West Indies to North Carolina.

Siphonium nebulosum (Dillwyn)

CURAÇAO: Caracas Baai, upon a rusty chain, 5 m deep, XII.1954 (Za.) (3). BONAIRE: 1068 (1). GRENADA: 1389 (1). ST BARTS: 1121 (r). NEW PROVIDENCE: Nassau, 16.VIII.1949 (1).

West Indies.

Vermicularia spirata Philippi

ST KITTS: Frigate Bay, 20.VII.1955 (1).

West Indies to Massachusetts, Texas. — Rare.

Tenagodus squamatus (Blainville) — Syn. *Siliquaria squamata* (Blainville) — West Indies

PLANAXIDAE

Planaxis lineatus (Da Costa)

Plate X

ARUBA: 1309 (2). CURAÇAO: 1020B (1); 1022 (3); St Joris Baai, 9.VI.1949 (1); Caracasbay, Spanish Bay and Boca Labadera (v.B.J., p. 14). BONAIRE: 1056 (4); 1056A (2); 1375 (13); 1378 (6). TOBAGO: 1388 (3). GRENADA: 1389 (1). ISLOTE AVES: 1114 (3, 8). ANTIGUA: 1393 (5). ST KITTS: 1397 (6). SABA: 1120 (17); Spring Bay, 28.VII.1949 (11). ST BARTS: 1121 (2). ANGUILLA: 1142 (4). ST JOHN: 1407 (8); 1408 (1). N BIMINI: 1152 (1).

West Indies.

Planaxis nucleus (Lamarck)

Plate X

CURAÇAO: Caracasbay and Spanish Bay (v.B.J., p. 14). BONAIRE: 1057A (20); 1057B (1); 1057C (1); 1378 (Za.) (1); Boca di Lac, 17.IX.1948 (6); Cay, 25.II.1949 (1, with hermit-crab). CUBAGUA: NW shore, 21.V.1936 (1). TOBAGO: 1388 (6). LITTLE TOBAGO: landing, 18.I.1955 (10). ANTIGUA: 1393 (6). ST KITTS: 1397 (2). ST EUSTATIUS: 1116 (12); Back-off Bay, 15.VII.1949 (2). SABA: Spring Bay, 28.VII.1949 (1). ANGUILLA: 1142 (11). ST JOHN: 1407 (5); 1408 (1).

West Indies.

MODULIDAE

See: ABBOTT 1944.

Modulus modulus (Linné)

Plate VII

ARUBA: 1002 (1 juv); 1307 (1); 1309 (2); Pova Beach, 27.IV.1955 (5); Malmok, 1954 (Be.) (1). CURAÇAO: 1022 (1) juv; 1036 (1); 1036a (1); 1039A (1) juv; Spanish Water and Spanish Harbour (v.B.J., p. 13). BONAIRE: 1064b (1); 1066 (2 juv); 1067 (1 juv); 1068a (1 juv); 1373A (1). CUBAGUA: NW shore, 21.V.1936 (8). TOBAGO: 1387 (1). ANTIGUA: St John's Harbour, fishermen's garbage, 1.VII.1955 (4); Barnacle Point, Shell Beach, 13.VII.1955 (4). BARBUDA: 1396 (2, 6). ST EUSTATIUS: 1116B (1 juv). ST MARTIN: 1126 (1 juv); 1127 (4); 1129 (1); Great Key, Simson Bay Lagoon, 2.VIII.1949 (2); Simson Bay, new beach near bridge, 6.VI.1955 (1 juv). ST CROIX: 1404 (4). S BIMINI: 1150A (15). N BIMINI: 1151 (1 juv); 1152 (4).

West Indies to Brasil, Bermudas.

Modulus carchedonius (Lamarck)

CURAÇAO: (AGUAYO & JAUME 1947-1952, p. 263).

Greater Antilles, North coast of South America. — Not common, in deeper water.

POTAMIDIDAE

See: BEQUART 1942, 1942.

***Cerithidea costata* (Da Costa)**

Plate VII

Cerithidea turrata Stearns is a subspecies of *C. costata*, which is only found in Florida. Specimens of *C. turrata* cited from other localities are, according to BEQUART (1942), juveniles of the typical *costata*.

ARUBA: 1002 (8); 1010 (12); 1014 (3); 1015 (♂); 1307 (1); 361 (6); Salinja Oranjestad, 30.VI.1930 (♂). CURAÇAO: 1041 (r); Caracasbay (v.B.J., p. 13, sub *C. turrata*). BONAIRE: 1094 (♂); 180A (♂); 303 (♂); 836 (♂); Salinja Paloe Lechi, 22.VIII.1930 (2); Lac, Soerebon, 8.X.1930 (&); Lac, W of Rancho, 8.X.1930 (♂); Lac, Salinja, 17.IX.1948 (♂, ♂ juv); Lagoen, SE corner, 14.IX.1948 (r); Salinja Martinus, 16.IV.1955 (6). MARGARITA: Laguna de las Maritas, S of Porlamar, 4.VII.1936 (4). BARBUDA: Martello Tower beach, 8.VII.1955 (5). ST MARTIN: 1130A (5); 1132A (r); W shore of Flamingo Pond, Simson Bay, 8.VI.1949 (4 fragm); Simson Bay Lagoon, muddy sandflat, N of bridge, 6.VI.1955 (1). ST CROIX: 1404 (2); 1406 (♂); Salt Pond, 1954 (G. A. Seaman) (r♂). ST THOMAS: near Airport, 17.VI.1955 (1). N BIMINI: 1150 (r); 495 (2 juv).

West Indies to South Carolina.

Cerithidea pliculosa (Menke) — Greater Antilles, Gulf of Mexico.

Cerithidea scalariformis (Say) — Hispaniola, Cuba, Florida to South Carolina.

***Batillaria minima* (Gmelin)**

Plate XI

CURAÇAO: 1320 (1); 1321 (♂); Salinja Santa Marta, 4.XII.1948 (8); near Caracasbay and Spanish Water (v.B.J., p. 13). KLEIN BONAIRE: 1371 (2). BONAIRE: 1375 (5); Lac, Soerebon, 8.X.1930 (5); Lac, 11.VIII.1930 (27); Salinja Martinus, 16.IV.1955 (4). MARGARITA: 1217 (12). GRENADA: 1391 (♂). BARBUDA: 1396 (1); Martello Tower beach, 8.VII.1955 (1). ST MARTIN: 1132 (5); 1132A (♂); 1400 (♂); 1402 (20); 230B (♂); Simson Bay Lagoon, muddy sandflat, N of bridge, 6.VI.1955 (3). ST CROIX: 1404 (5); 1406 (&). HISPANIOLA: S shore of Lago Enriquillo, 15.XII.1952 (J. H. Westermann) (&). NEW PROVIDENCE: Nassau, 16.VIII.1949 (2).

West Indies, Gulf of Mexico, Bermudas.

CERITHIIDAE

See: DALL 1907, GAILLARD 1954, PILSBRY 1949.

Cerithium litteratum (Born)

Plate XI

ARUBA: 1002 (2, 3 fragm); 1309 (10, 4 juv); Malmok (Be.) (1). CURAÇAO: 1020B (6); 1022 (2 juv); 1023 (1); 1023a (1); 1038a (x); 1039 (x); 1320 (6); 1350 (9, 1 juv); Boca, Spaanse Baai, 16.X.1948 (x); Boca Westpunt, 2.XI.1954 (Za.) (2); Boca Santa Marta, 24.II.1955 (1); Santa Marta, 20.XI.1955 (Za.) (1, with *Coen.*); Caracasbay, Spanish Bay, Spanish Harbour and Spanish Water (v.B.J., p. 13). KLEIN BONAIRE: 1049B (x, 5 juv); 1369 (10 juv); 1371 (& juv). BONAIRE: 1056 (1 juv); 1056Ba (x); 1057C (5 juv); 1062a (x); 1067 (3); 1373 (4 juv); 1373A (♂ juv); 1375 (2 juv); Cueba Kinkoe, Lima, 16.IX.1948 (1, with *Coen.*). ISLOTE AVES: 1114 (♂ juv). ANTIGUA: 1393 (2 juv). ST MARTIN: 1127 (3); 1128 (x); 1130A (1); Great Bay, 1955 (Bo.) (1); Great Bay, 7.VI.1955 (x). ST CROIX: 1404 (x); Fredensborg Hill, S slope, 11.VI.1955 (1 subfoss). ST JOHN: 1407 (x); 1408 (2). ST THOMAS: near Airport, 17.VI.1955 (2). N BIMINI: 1152 (♂, 4 with hermit-crabs).

West Indies, Bermudas.

Cerithium eburneum Bruguière

Plate XI

ARUBA: 1309 (1). CURAÇAO: Caracasbay (v.B.J., p. 13). KLEIN BONAIRE: 1049B (2); 1371 (2). TRINIDAD: 1383 (1). TOBAGO: 1385 (1); 1387 (15). GRENADA: White Bay, 26.I.1955 (1). ST EUSTATIUS: 1116 (2). BARBUDA: 1396 (♂). ST MARTIN: 1126 (2); 1130 (x); 1132A (1); 1399 (1); 1402 (9); Simson Bay Lagoon, Great Key, 2.VIII.1949 (&). ST CROIX: 1404 (4); 613 (x); Salt Pond, 1954 (G. A. Seaman) (2). NEW PROVIDENCE: Nassau, 16.VIII.1949 (9 fragm). N BIMINI: 1152 (&, 3 with hermit crabs).

West Indies. — New for the Lesser Antilles.

Cerithium algicola C. B. Adams

Plate XI

According to ABBOTT 1954 (p. 154) this species may be a variety of *C. eburneum*.

ARUBA: 1002 (2, 3 fragm); cave of Lago Colony, 15.I.1949 (2); Malmok 1955 (Ga.) (1); Malmok (Be.) (9). CURAÇAO: 1019 (2); Boca, Spaanse Baai, 16.X.1948 (2). KLEIN BONAIRE: 1369 (7); 1371 (1). BONAIRE: 1056A (6); 1057C (4 juv); 1068a (3); 1375 (6). TRINIDAD: 1382 (4); 1383 (3). TOBAGO: 1388 (1). ANTIGUA: 1393 (2); Barnacle Point, Shell Beach, 13.VII.1955 (2). BARBUDA: 1396 (5). ST KITTS: Frigate Bay, 20.VII.1955 (1). ST EUSTATIUS: 1116B (x). ST BARTS: 1121 (x). ST MARTIN: 230B (1); 1125 (3 fragm). ST CROIX: 1404 (15); 1405 (&); 1406 (2); Krausse Lagoon, 1954 (G. A. Seaman) (x). ST JOHN: 1408 (2). ST THOMAS: near Airport, 17.VI.1955 (2).

West Indies.

Cerithium muscarum Say

Plate XI

ANTIGUA: St John's Harbour, fishermen's garbage, 1.VII.1955 (3). NEW PROVIDENCE: Nassau, 16.VIII.1949 (1).

West Indies. — Rare.

Cerithium variabile C. B. Adams

Plate XI

Syn. *C. ferrugineum* Say.

ARUBA: 1004 (1); 1005a (5, 9 fragm); 1008 (12); 1010 (6); 1010A (6); 1307 (&). CURAÇAO: 1025 (6); 1025A (6); 1026 (6); 1033 (11); 1320 (6); 1322 (6); 1350 (1); 326 (16); Caracasbay, Spanish Bay and Spanish Water (v.B.J., p. 13, sub *C. ferrugineum*). KLEIN BONAIRE: 1371 (7). BONAIRE: 1063 (8); 1064A (3); 1066 (6); 1070Aa (4); 1373A (2 juv); 1375 (6); 180A (15). TRINIDAD: 1382 (2); 1383 (&). ST MARTIN: 1125A (20); 1129 (1, with hermit-crab); Great Key, Simson Bay Lagoon, 2.VIII.1949 (6).

West Indies to South Carolina.

Cerithium rissoidae Sowerby

CURAÇAO: Caracasbay (v.B.J., p. 13).

West Indies. — Rare.

Cerithium atratum (Born) — West Indies.*Cerithium uncinatum* (Gmelin) — West Indies.*Bittium varium* (Pfeiffer) — West Indies, Texas.*Alvania nigrescens* Bartsch & Rehder — Old Providence Island.

CERITHIOPSIDAE

Many species of this family are found in deeper water.

Cerithiopsis terebellum C. B. Adams

BONAIRE: 1056A (1). ST EUSTATIUS: 1116B (1).

West Indies.

Cerithiopsis subulata (Montagu) — West Indies to Massachusetts.*Seila adamsi* (Lea) — West Indies to Massachusetts, Texas.

TRIPHORIDAE

Triphora, syn. *Triforis*.**Triphora turris-thomae** (Dillwyn)

ARUBA: 1002 (1); 1307 (1). CURAÇAO: 1018 (1); Caracasbay and Spanish Water (v.B.J., p. 13, sub *Triforis turris-thomae*). KLEIN BONAIRE: 1049B (1). BONAIRE: 1056A (1). ISLOTE AVES: 1114 (1). SABA: 1120 (1).

West Indies to North Carolina.

Triphora decorata (C. B. Adams)

ARUBA: 1002 (1). CURAÇAO: 1020C (x); 1020D (4); 1021 (x); Caracasbay (v.B.J., p. 12, sub *Triphoris decoratus*). KLEIN BONAIRE: 1049B (x). BONAIRE: 1056C (x); 1059B (2). ST MARTIN: 1399 (1):.

West Indies, Bermudas.

Triphora pulchella C. B. Adams

BONAIRE: 1056B (3); 1059B (2).

West Indies.

Triphora mirabilis C. B. Adams — West Indies to North Carolina.

Triphora melanura C. B. Adams — West Indies to North Carolina.

Triphora nigrocincta C. B. Adams — West Indies to Massachusetts, Texas.

Triphora ornata Deshayes — West Indies, Bermudas.

EPITONIIDAE

Syn. *Scalidae*. — Many species occur in deeper water. — *Epitonium*, syn. *Scalaria*, *Scala*. — See: BARTSCH 1940, BOURY 1912, 1913, CLENCH & TURNER 1950, 1951, 1952, MÖRCH 1876.

Epitonium lamellosum (Lamarck)

Plate IX

CURAÇAO: Caracasbay (v.B.J., p. 9, sub *Scalaria lamellosa*). KLEIN CURAÇAO: E coast 1.X.1948 (1). KLEIN BONAIRE: 1049B (1). BONAIRE: 1373A (1) ISLOTE AVES: 1114 (2). ST MARTIN: (SCH., sub *Scala commutata*).

West Indies; eastern Atlantic, from France to the Gold Coast, western part of the Mediterranean.

Epitonium unifasciatum (Sowerby)

Plate IX

ISLOTE AVES: 1114 (1). ST MARTIN: 1128 (1).

West Indies. — Rare.

Epitonium albidum (d'Orbigny)

Plate IX

KLEIN CURAÇAO: E coast, 1.X.1948 (1). KLEIN BONAIRE: 1049B (2). TOBAGO: 1388 (1). ISLOTE AVES: 1114 (1).

West Indies to northern Argentina, Bermudas; eastern Atlantic, from Cap Verde Islands to the Gold Coast. — It is curious that the above-mentioned species of *Epitonium* should have been found in one and the same locality.

Epitonium krebsii (Mörch)

Plate IX

ST MARTIN: Flamingo Pond, 8.VI.1949 (3).
West Indies, Gulf of Mexico, Bermudas.

Epitonium occidentale (Nyst)

BONAIRE: 1056C (1).
West Indies, Bermudas. — Rare. — Not known from the Leeward Group.

Opalia crenata (Linné)

CURAÇAO: Spaanse Baai, Boca, low tide zone of rocky beach, 16.X.1948 (r).
West Indies; eastern Atlantic from France to the Gold Coast, western part of the Mediterranean. — Rare.

JANTHINIDAE

The species of this family are pelagic; the shell may be found washed ashore.

Janthina janthina (Linné)

Plate XII

Syn. *J. communis* Lamarck, *J. fragilis* Lamarck.

ARUBA: Malmok, 1955 (Ga.) (1). KLEIN CURAÇAO: Eastern shore, 1.X.1948
(1, 1 juv); 16.I.1955 (Za.) (2 fragm).

Tropical seas.

Janthina globosa Swainson

Plate XII

ARUBA: 1309 (1); Pova Beach, 1955 (Be.) (1 fragm.); Malmok, 1955 (Ga.) (1).
CURAÇAO: Caracasbay (v.B.J., p. 9). ISLOTE AVES: 12.V.1949 (1 juv).

Tropical seas.

Janthina exigua Lamarck — Tropical seas.

PYRAMIDELLIDAE

In modern systems the suborder *Pyramidellacea* is placed in the subclass *Opisthobranchiata*, on account of embryologic and anatomic data. This family has many species in the West Indies, most of them only a few mm in length, and occurring in deeper water. — See: BARTSCH 1912, DALL & BARTSCH 1909.

Pyramidella dolabrata (Linné) var. **subdolabrata** (Mörch) Plate VIII

CURAÇAO: 1036 (1), Spanish Harbour (v.B.J., p. 9). KLEIN BONAIRE: 1369 (2); 1371 (4).

West Indies.

Pyramidella crenulata Holmes — West Indies to South Carolina.

Oscilla biseriata Gabb — West Indies.

Turbonilla multcostata C. B. Adams — West Indies to North Carolina.

Turbonilla obeliscus C. B. Adams — West Indies to North Carolina.

Turbonilla reticulata C. B. Adams — Syn. *T. cancellata* Holmes — West Indies to North Carolina.

Turbonilla subulata C. B. Adams — West Indies to North Carolina.

HIPPONICIDAE

Syn. *Amaltheidae*. — *Hipponix* DeFrance 1819, syn. *Amalthea* Schumacher 1817, non Montfort 1810. — *Cheilea*, syn. *Mitrularia*, has been classified by THIELE 1929 under *Hipponicidae*; other authors have placed it in the *Calyptraeidae*.

Hipponix antiquatus (Linné)

Plate XII

ARUBA: 1301 (3); Boekoeti, 17.I.1949 (5 juv); Pova Beach, 27.IV.1955 (1). CURAÇAO: 1020B (3); 1023 (♂); Boca Westpunt, 2.XI.1954 (Za.) (1); Caracabay (v.B.J., p. 16, sub *Amalthea antiquata*); (SCH.). KLEIN CURAÇAO: 1046 (2 juv); 1365 (Za.) (2); E shore, 1.X.1948 (1). KLEIN BONAIRE: 1367 (r); 1371 (1). BONAIRE: 1058 (1); 1058B (1 juv); 1059B (3). TRINIDAD: 1382 (1). GRENADA: St George, Martin's Bay, 22.I.1955 (1); White Bay, 26.I.1955 (3). ISLOTE AVES: E shore, 12.V.1949 (1). BARBUDA: 1395 (3). ST KITTS: 1398 (10). ST MARTIN: 1126 (3); Simson Bay, new beach at bridge, 6.VI.1955 (1). ST JOHN: 1407 (7).

West Indies; Pacific coast from California to Peru.

Hipponix subrufus (Lamarck)

Plate XII

ARUBA: 1010 (1); Boekoeti, 17.I.1949 (2); Pova Beach, 27.IV.1955 (1); Malmok 1955 (Ga.) (1). CURAÇAO: Boca Santa Marta, 24.II.1955 (1); Caracabay (v.B.J., p. 16, sub *Amalthea subrufa*); (SCH.). BONAIRE: Onima, 19.X.1948 (1). TOBAGO: 1387 (1). ANTIGUA: 1393 (2). ST JOHN: 1407 (3). ST THOMAS: near Airport, 17.VI.1955 (2).

West Indies.

Cheilea equestris (Linné)

ARUBA: Malmok, 1955 (Ga.) (1). CURAÇAO: Caracasbay (v.B.J., p. 15, sub *Mitrularia equestris*); (SCH., sub *Mitr. eq.*). KLEIN BONAIRE: 1371 (1). ANTIGUA: 1393 (3). ST BARTS: 1121 (1).

West Indies to North Carolina; Indo-Pacific.

Cheilea equestris torgilis (Reeve) — West Indies; Galápagos — According to JOHNSON 1934 this subspecies is littoral, while the typical *equestris* occurs in deeper water.

Cheilea uncinata (Reeve) — St Thomas, Pernambuco.

CAPULIDAE

Capulus incurvatus (Gmelin)

Plate XII

ARUBA: Malmok, 1955 (Ga.) (1). CURAÇAO: (Mrs. J. G. de Jong) (1). GRENADA: White Bay, 26.I.1955 (1). ST KITTS: Frigate Bay, 20.VII.1955 (1).

West Indies to North Carolina. — Usually found in deeper water.

Capulus ungaricus (Linné) — Antilles, according to AGUAYO & JAUME (1947–1952); JOHNSON 1934 mentions its areal as extending from Florida to Greenland.

CALYPTRAEIDAE

The Genus *Calyptraea* has only one species in deeper water.

Crucibulum auricula (Gmelin)

ARUBA: 1002 (3); Malmok, 1955 (Ga.) (3); Pova Beach, 27.IV.1955 (3). MARGARITA: (Av.) (4). GRENADA: Martin's Bay, St George, 22.I.1955 (2).

West Indies.

Crepidula aculeata (Gmelin)

ARUBA: 1002 (1); Spaans Lagoen shell mound, 1.V.1955 (2). CURAÇAO: 1037A (1); Spanish Water (v.B.J., p. 15). MARGARITA: (Av.) (2). ANTIGUA: 1393 (3). ST KITTS: 1398 (10).

West Indies to North Carolina.

Crepidula convexa Say

ARUBA: 1002 (2); 1008A (2). BONAIRE: 1070 (3). ST BARTS: Gustavia Harbour, 1.IV.1949 (5 juv). ST CROIX: 1409 (9).

West Indies to Massachusetts, Texas.

***Crepidula convexa glauca* Say**Syn. *C. acuta* Lea.

ARUBA: Pova Beach, 27.IV.1955 (4). MARGARITA: (Av.) (4). BARBUDA: 1395 (3).

West Indies to Massachusetts, Texas.

Crepidula plana Say — West Indies, Atlantic coast of U.S.A.

XENOPHORIDAE

See: BARTSCH 1931, CLENCH & AGUAYO 1943.

***Xenophora conchyliophora* (Born)**

Plate IX

ARUBA: Malmok, 1955 (Ga.) (1). St Kitts: Frigate Bay, 20.VII.1955 (1).

West Indies to North Carolina and Brasil.

STROMBIDAE

See: BALES 1942, CLENCH & ABBOTT 1941, JAUME & VALLE 1946, 1947, MCGINTY 1946, 1947, VERRILL 1947.

***Strombus gigas* Linné**

ARUBA: 1301 (1 juv); 1307 (r juv); Palm Beach, 3.I.1949 (1 juv); jetty of Eagle Petr. Co., 10 m deep, 29.IV.1955 (1 juv, with *Dardanus venosus*); Bucuti, 6.V.1955 (1 juv); Pova Beach, X.1954 (Be.) (1 juv); Malmok, 1954 (Be.) (2 juv); Seroe Canashito, 1.V.1949 (1 juv); Seroe Noka shell mound, 11.V.1955 (5 juv; 8 fragm); Boca Prins shell mound, 26.VIII.1949 (1 juv fragm). CURAÇAO: 1021 (1 juv); 1037 (1 juv); 1039 (2 juv); Boca Westpunt, 2.XII.1954 (Za.) (3 juv); Caracas Baai, 1955 (P. J. Scheer) (1 juv, with *Dardanus venosus*); shell mound of Tafelberg Santa Barbara, 23.III.1949 (2 fragm); abri of Rooi Rincón, Hato, 11.VIII.1949 (3 fragm); shell mound of Boca St Joris, 29.II.1955 (3 juv); Caracabay and Spanish Harbour (v.B.J., p. 12). KLEIN CURAÇAO: 1362 (Za.) (1 juv); E shore, 1.X.1948 (1 juv). BONAIRE: 1067 (z juv); Boca of Lac, 8 m deep, 22.VIII.1930 (r); recent shell mounds of Cay, up to 4 m high, from Boca of Lac, 27.VIII.1955 (4). LAS AVES: Ave de Barlovento, 1210A (z). TORTUGA: 1211A (14). MARGARITA: Porlamar Bay, 30.VI.1936 (r). TOBAGO: (Co.) (1 juv). GRENADA: Martin's Bay, St George, 22.I.1955 (1). ISLOTE AVES: 12.V.1949 (1 juv). St MARTIN: 1128 (2 juv, with hermit-crabs); Simson Bay, new beach near bridge, 6.VI.1955 (2). St CROIX: shell mound at Fair Plain Bridge, 12.VI.1955 (2). N BIMINI: 1151 (1 juv); 1152 (2 juv).

West Indies, Bermudas.

Strombus costatus Gmelin

ARUBA: Spaans Lagoen shell mound, 1.I.1949 (1); Serroe Noka shell mound, 11.V.1955 (1, 2 fragm). MARGARITA: Porlamar Bay, 5.VIII.1936 (x). ST CROIX: Shell mound at Fair Plain Bridge, 12.VI.1955 (2). ST THOMAS: Magens Bay shell mound, 20.VI.1955 (1).

West Indies to Bahía (Brasil).

Strombus gallus Linné

ARUBA: 1303 (1); Malmok, 1955 (Ga.) (2); (SCH.). CURAÇAO: 1039 (1, with hermit-crab); Caracasbay and Spanish Harbour, v.B.J., p. 12); (SCH.). ST KITTS: Frigate Bay, 20.VII.1955 (1).

West Indies to Brasil.

Strombus pugilis pugilis Linné

PARAGUANÁ (Ven.): Carirubana, 21.II.1937 (2). ARUBA: Pova Beach, X.1954 (Be.) (3, 1 juv); Malmok 1954 (Be.) (2, 1 juv). CURAÇAO: 1037 (3). MARGARITA: 25 miles N of Margarita, 20 fathoms deep, 9.XII.1954 (Bl.) (1, with *Paguristes sericeus*); 20 mi. N of Margarita, 20-30 fathoms, 24.II.1955 (Bl.) (1 juv). ST JOHN: Turner Bay, 18.VI.1955 (1). ST THOMAS: Magens Bay shell mound, 20.VI.1955 (1).

West Indies to Brasil.

Strombus pugilis alatus Gmelin — Syn. *S. alatus* — Cuba to North Carolina.

Strombus pugilis nicaraguensis Fluck — Nicaragua.

Strombus raninus Gmelin

Syn. *S. bituberculatus* Lamarck.

ARUBA: Pova Beach, 1954 (Be.) (1); Malmok, 1955 (Ga.) (1). CURAÇAO: 1023 (1). KLEIN CURAÇAO: SW coast, 9.I.1955 (Za.) (1). TOBAGO: (Co.) (2).

Strombus samba Clench — Cuba, Bahamas, Florida.

Strombus goliath Sowerby — Antilles, N coast of South America.

NATICIDAE

Some species of *Natica* and *Polinices* have many synonyms. — *Eunaticina* Fischer, 1885, syn. *Sigatica* Meyer, 1886. — See: REHDER 1947.

Natica canrena (Linné)

ARUBA: 1002 (1); Pova Beach, 27.IV.1955 (2); Pova Beach, X.1954 (Be.) (2); Malmok, 1954 (Be.) (2); Malmok, 1955 (Ga.) (1). CURAÇAO: Spanish Water

and Spanish Bay (v.B.J., p. 16); (SCH.). TOBAGO: (Co.) (2). GRENADA: Martin's Bay, St George, 22.I.1955 (2). ANTIGUA: St John's Harbour, 1.VII.1955 (2); Barnacle Point, Shell Beach, 13.VII.1955 (2). BARBUDA: 1396 (1). ST MARTIN: 1402 (4); Simson Bay Lagoon, muddy sandflat N of bridge, 6.VI.1955 (2).

West Indies to North Carolina and to Rio de la Plata, Gulf of Mexico.

Natica sulcata (Born) — West Indies.

Natica marochiensis (Gmelin) — West Indies to North Carolina and to Brasil.

Natica pusilla Say — West Indies, Gulf of Mexico.

Natica cubana Dall — Cuba.

Natica livida Pfeiffer — Cuba, Florida, Bermudas.

***Polinices lacteus* (Guilding)**

ARUBA: 1002 (1); 1309 (1); Pova Beach, X.1954 (Be.) (1); Malmok, 1954 (Be.) (7); Malmok, 1955 (Ga.) (1). CURAÇAO: 1023 (1); Spanish Harbour, Spanish Bay and Caracasbay (v.B.J., p. 16, sub *Natica lactea*); (SCH., sub *N. lactea*). KLEIN BONAIRE: 1371 (1). GRENADA: 1389 (1). ST MARTIN: Simson Bay Lagoon, muddy sandflat N of bridge, 6.VI.1955 (1).

West Indies to North Carolina, Texas.

***Polinices brunneus* (Link)**

ARUBA: Malmok, 1954 (Be.) (1).

West Indies.

Polinices uberinus (d'Orbigny) — West Indies to North Carolina.

Polinices draparnaudi (Recluz) — Antilles to Bahia (Brasil).

***Sinum perspectivum* (Say)**

ARUBA: Malmok 1955 (Ga.) (1). CURAÇAO: Boca Santa Marta, 24.II.1955(2).

West Indies to New Jersey and to Brasil, Gulf of Mexico.

***Sinum maculatum* (Say)**

ST KITTS: Frigate Bay, 20.VII.1955 (1 fragm). ST THOMAS: near Airport, 17.VI.1955 (3).

West Indies to North Carolina.

Eunaticina semisulcata (Gray)

ST MARTIN: (AGUAYO & JAUME 1947-1952, p. 319).

Antilles. — Rare.

CYPRAEIDAE

See: DODGE 1953, INGRAM 1947, 1951, PRESBREY 1913, SCHILDER & SCHILDER 1938/1939.

Trona zebra (Linné)

Syn. *T. exanthema* (Linné).

ARUBA: Pova Beach, X.1954 (Be.) (2); Malmok 1955 (Ga.) (5, 1 juv). CURAÇAO: Boca Santa Marta, 24.II.1955 (1); Playa Frankie, 27.II.1955 (1); Caracasbay and Spanish Bay (v.B.J., p. 12, sub *Cypraea exanthema*). KLEIN CURAÇAO: SW coast, 9.I.1955 (Za.) (1). KLEIN BONAIRE: W shore, 25.III.1955 (2), and 28.III.1955 (2); N shore, 20.III.1955 (1); SE shore, 20.VIII.1955 (8). TOBAGO: (Co.) (2). ISLOTE AVES: E shore, 12.V.1949 (1). NEVIS: (P. H. A. Martin-Kaye) (1). ST MARTIN: Little Bay, 4.IV.1955 (1).

West Indies to North Carolina, Gulf of Mexico.

Trona cervus (Linné) — St Thomas, Cuba, Florida, Gulf of Mexico.

Erosaria spurca acicularis (Gmelin)

ARUBA: 1002 (1); 1301 (5); Pova Beach, X.1954 (Be.) (1); Malmok, 1955 (Ga.) (5). CURAÇAO: Boca Westpunt, 2.XI.1954 (Za.) (6); Boca Santa Marta, 12.XII.1954 (Za.) (1); Boca Santa Marta, 24.II.1955 (1); Caracasbay (v.B.J., p. 12, sub *Cypraea spurca*). KLEIN BONAIRE: SE shore, 20.VIII.1955 (3). TOBAGO: (Co.) (1).

West Indies. — Typical *E. spurca* occurs in the Mediterranean Sea, two other subspecies in the eastern Atlantic.

Luria cinerea (Gmelin)

ARUBA: 1301 (1); Palm Beach, 3.I.1949 (1); Pova Beach, 27.IV.1955 (1); Pova Beach, X.1954 (Be.) (11); Malmok, 1955 (Ga.) (3). CURAÇAO: 1022 (1); 1023 (x); 1037 (x); Boca Westpunt, 2.XI.1954 (Za.) (9); St Kruis Baai, 7.X.1948 (1); Boca Santa Marta, 12.XII.1954 (Za.) (3); Boca Santa Marta, 24.II.1955 (5); Boca San Juan, 6.II.1955 (1); Caracasbay, Spanish Bay and Spanish Water (v.B.J., p. 12, sub *Cypraea cinerea*). KLEIN CURAÇAO: E shore, 1.X.1948 (2). KLEIN BONAIRE: 1371 (1); W shore, 25.III.1955 (2); W shore, 28.III.1955 (1); N shore, 20.III.1955 (1); SE coast, 20.VIII.1955

(14). BONAIRE: 1067 (1); S of Kralendijk, 10.IX.1948 (1). TOBAGO: (Co.) (4). ISLOTE AVES: 1115 (1). ANTIGUA: 1393 (1). ST KITTS: 1398 (1). ST MARTIN: Great Bay, 1955 (Bo.) (1). ST JOHN: 1407 (4).

West Indies to North Carolina.

Siphocypraea mus (Linné)

LA GOAJIRA (Col.): Rio Hacha, 20.I.1937 (3). CURAÇAO: (AGUAYO & JAUME 1947-1952, p. 329).

Colombia, Venezuela, Curaçao, Barbados, Martinique, Cuba. — A variety, *bicornis* Sowerby, syn. *tuberculata* Gray, has two knobs on the shell.

Propustularia surinamensis (Perry)

Syn. *P. bicallosa* (Gray).

CURAÇAO: (AGUAYO & JAUME 1947-1952, p. 326-327).

Guiana, Curaçao, St Vincent, Marie Galante, St Thomas.

AMPHIPERATIDAE

Syn. *Ovulidae*. — See: PILSBRY 1939, PILSBRY & MCGINTY 1939.

Amphiperas aperta (Sowerby) — Barbados.

Amphiperas birostris (Linné) — Cuba.

Cyphoma gibbosa (Linné)

ARUBA: 1301 (2); Malmok 1954 (Be.) (1). CURAÇAO: 1020 (x); 1023 (1); Boca Westpunt, 2.XI.1954 (Za.) (1); Boca Santa Marta, 12.XII.1954 (Za.) (1); Caracasbay and Spanish Bay (v.B.J., p. 11, sub *Ovula gibbosa*); (Sch.). KLEIN BONAIRE: W shore, 28.III.1955 (2); SE shore, 20.VIII.1955 (1). BONAIRE: 1059A (x juv); 1068a (x). ST EUSTATIUS: 1116 (1). ST JOHN: 1407 (1).

West Indies to North Carolina and to Brasil.

Cyphoma intermedia (Sowerby) — West Indies to North Carolina and to Brasil.

Cyphoma mcgintyi Pilsbry — Cuba, Florida.

Simnia acicularis (Lamarck)

CURAÇAO: Caracasbay (v.B.J., p. 11, sub *Ovula acicularis*).

West Indies to North Carolina.

Simnia uniplicata (Sowerby) — West Indies to Virginia.

ERATOIDAE

Erato martinicensis Schilder — Venezuela, Martinique.

Erato maugeriae Gray — Greater Antilles to North Carolina, Texas.

Trivia pediculus (Linné)

Plate XIII

ARUBA: 1301 (2); Malmok, 1955 (Ga.) (4). CURAÇAO: Boca Westpunt, 2.XI.1954 (Za.) (1); Caracasbay (v.B.J., p. 12). GRENADA: Martin's Bay, St George, 22.I.1955 (1).

West Indies.

Trivia suffusa (Gray)

Plate XIII

Syn. *T. armandina* Ducloz.

ARUBA: Malmok, 1954 (Be.) (1). CURAÇAO: 1022 (1). MARGARITA: (Av.) (1).

West Indies. — Not common.

Trivia quadripunctata Gray

Plate XIII

ARUBA: Malmok, 1955 (Ga.) (5).

West Indies. — Rare.

Trivia nix Schilder

Plate XIII

Syn. *T. nivea* Gray.

ARUBA: 1004 (1). CURAÇAO: Spanish Harbour, Spanish Bay and Caracasbay (v.B.J., p. 12, sub *T. nivea*).

West Indies. — Rare.

Trivia antillarum Schilder

Plate XIII

Syn. *T. subrostrata* Gray.

ARUBA: Malmok, 1955 (Ga.) (1).

West Indies. — In deeper water.

CASSIDAE

See: BAYER 1935, CLENCH & ABBOTT 1943, CLENCH 1944, PILSBRY & MCGINTY 1939.

Cassis flammea (Linné)

ARUBA: 1303 (r); Pova Beach, 1955 (Be.) (3). CURAÇAO: St Kruis baai, 24.IV.1930 (r); Boca Santa Marta, 24.II.1955 (1); Boca, Spaanse Water, with *Thalassia*, 1 m deep, 21.IV.1949 (1); Caracasbay and Spanish Bay (v.B.J., p. 10); (SCH.). KLEIN BONAIRE: W shore, 25.III.1955 (3); W shore, 28.III.1955 (2); SE shore, 20.VIII.1955 (1). ST EUSTATIUS: 1116 (1 juv). ST JOHN: 1407 (1).

Antilles, Bahamas.

Cassis tuberosa (Linné)

ARUBA: Malmok, VIII.1955 (Frère Rafaël) (2); (SCH.). NEVIS: (P. H. A. Martin-Kaye) (1). ST MARTIN: Simson Bay, VIII.1949 (1).

West Indies to North Carolina and to Brasil.

Cassis madagascariensis Lamarck — Greater Antilles to North Carolina.

Casmaria atlantica Clench — Greater Antilles to North Carolina.

Cypraecassis testiculus (Linné)

ARUBA: Pova Beach, X.1954 (Be.) (2); Malmok, 1954 (Be.) (5). CURAÇAO: 1022 (1); 1344 (Za.) (1); Spanish Bay and Caracasbay (v.B.J., p. 10, sub *Cassis testiculus*); (SCH., sub *Cassis t.*). KLEIN CURAÇAO: E shore, 1.X.1948 (2); 9.I.1955 (Za.) (3). KLEIN BONAIRE: W shore, 25.III.1955 (1); W shore, 28.III.1955 (1); N coast, 20.III.1955 (1); SE shore, 20.VIII.1955 (13). ISLOTE AVES: 1115 (2). BARBUDA: Highlands at Dark Cave, 6.VII.1955 (1). NEVIS: (P. H. A. Martin-Kaye) (1).

West Indies to Cape Hatteras and to Brasil, Bermudas; West Africa.

Cypraecassis testiculus var. crumena (Bruguère)

Syn. *C. testiculus bicincta* Bayer.

KLEIN BONAIRE: SE shore, 20.VIII.1955 (2).

Cuba, Bahamas, Florida; I. Asunción. — New for the Lesser Antilles.

Phalium cicatricosum (Meuschen)

ARUBA: Pova Beach, 1954 (Be.) (1). BONAIRE: 1056Ca (1 juv). MARGARITA: (Av.) (1); 25 mi. N of Margarita, 20 fathoms deep, 9.XII.1954 (Bl.) (2, 6 with *Petrochirus bahamensis*). TOBAGO: (Co.) (1). ST EUSTATIUS: 1116 (1).

West Indies.

Phalium granulatum (Born)

MARGARITA: (Av.) (1).

West Indies to North Carolina and to Brasil.

Morum oniscus (Linné)CURAÇAO: (Mrs. J. G. de Jong) (2); Entrance to Spanish Water (v.B.J., p. 10, sub *Oniscia oniscus* var. *lamarcki*). ST MARTIN: Great Bay, 1955 (Bo.) (1).

West Indies to Brasil.

CYMATIIDAE

Charonia, syn. *Septa*. — See: BAYER 1933.**Cymatium martinianum** (d'Orbigny)Syn. *C. velei* Calkins; often cited as *C. aquatilis* (Reeve) and *C. pileare* (Linné), which are indo-pacific species.ARUBA: Pova Beach, 1954 (Be.) (2); Malmok, 1955 (Ga.) (3). CURAÇAO: 1038 (r); Caracasbay (v.B.J., p. 10, sub *C. pileare*); (Sch., sub *Triton pilearis*). GRENADA: St George's, 22.I.1955 (1, with *Coen.*). ANTIGUA: 1393 (2). ST MARTIN: Simson Bay, new beach at bridge, 6.VI.1955 (1).

West Indies.

Cymatium chlorostomum (Lamarck)CURAÇAO: 1037A (r); Caracasbay, Spanish Harbour and Spanish Water (v.B.J., p. 10); (Sch., sub *Triton chlorostomus*). TRINIDAD: 1384 (1 fragm). ST KITTS: Frigate Bay, 20.VII.1955 (1). ST MARTIN: 1125A (r).

West Indies.

Cymatium cynocephalum (Lamarck)

ARUBA: Malmok, 1955 (Ga.) (1).

West Indies. — Rare.

Cymatium muricinum (Röding)Syn. *C. tuberosum* (Lamarck).ARUBA: Pova Beach, 1954 (Be.) (2); Malmok, 1955 (Ga.) (2). CURAÇAO: Boca Westpunt, 2.XI.1954 (Za.) (1). BARBUDA: Highlands near Dark Cave, 6.VII.1955 (1, with *Coen.*). ST MARTIN: 1125A (r); 1128 (r).

West Indies, Bermudas.

Cymatium femorale (Linné)

ARUBA: Malmok, 1954 (Be.) (1). CURAÇAO: (SCH., sub *Triton femorale*).
ST KITTS: Frigate Bay, 20.VII.1955 (1). ST MARTIN: Great Bay, 29.VI.1955
(1, with *Dardanus venosus*).

West Indies.

Charonia tritonis nobilis (Conrad)

ARUBA: Pova Beach, X.1954 (Be.) (1 juv); Malmok, 1955 (Ga.) (1). CURA-
ÇAO: Boca Westpunt, 2.XII.1954 (Za.) (1); Boca St Joris shell mound,
29.II.1955 (1 juv); Caracasbay (v.B.J., p. 10, sub *Septa tritonis* var. *nobilis*).
KLEIN CURAÇAO: E shore, 1.X.1948 (1); 9.I.1955 (Za.) (1). TOBAGO: (Co.)
(2 juv). ST MARTIN: W of Airport, Low Lands, 25.VI.1955 (1, with hermit
crab); Simson Bay, new beach at bridge, 6.VI.1955 (1 fragm). ST JOHN:
1407 (1 fragm).

West Indies.

Distorsio clathrata (Lamarck)

Often identified as *D. reticulata* Link, a Pacific species.

PARAGUANÁ (Ven.): Carirubana, 23.II.1937 (2). MARGARITA: 25 miles N of
Margarita, 20 fathoms deep, 9.XII.1954 (Bl.) (1).

West Indies, Gulf of Mexico. — Rare.

BURSIDAE

See: BAYER 1932.

Bursa corrugata (Perry)

Syn. *B. caelata* Broderip, *B. ponderosa* Reeve.

CURAÇAO: (Mrs. J. G. de Jong) (2); (SCH., sub *Ranella ponderosa*).

West Indies; Pacific coast from California to Ecuador. — Rare.

Bursa granularis Röding

Syn. *B. cubania* d'Orbigny, *B. affinis* Broderip.

CURAÇAO: (v.B.J., p. 10, sub *B. affinis*).

West Indies.

Bursa thomae d'Orbigny

CURAÇAO: (SCH., sub *Ranella Thomae*).

West Indies. — Rare.

DOLIIDAE

Syn. *Tonnidae*. — *Dolium*, syn. *Tonna*. — See: BAYER 1937, TURNER 1948.

***Dolium perdix* (Linné)**

In the West Indies *D. perdix pennata* (Mörch) occurs, which is called a different species, *D. maculosum* (Dillwyn), by some authors. — From Curaçao *D. perdix* forma *rufa* (Blainville) is known; see: BAYER 1937, p. 47, and AGUAYO & JAUME 1947–1952, p. 109.

ARUBA: 1301 (1 juv); Malmok, 1944 (Be.) (1); Malmok, 1955 (Ga.) (4 juv); (SCH.). CURAÇAO: Boca Santa Marta, 24.II.1955 (1); Spanish Bay and Caracasbay (v.B.J., p. 11); (SCH.). KLEIN CURAÇAO: 29.VIII.1936 (1, fossil); 1.X.1948 (1 juv). BONAIRE: Kralendijk, abt 50 m deep, 15.IV.1955 (1, with *Dardanus venosus*). TOBAGO: (Co.) (1). GRENADA: Martin's Bay, St George, 22.I.1955 (1). ISLOTE AVES: N shore, 12.V.1949 (1 juv). ST KITTS: Frigate Bay, 20.VIII.1955 (2, 1 fragm).

Circumtropic.

***Dolium galea antillarum* (Mörch)**

MARGARITA: 25 miles N of Margarita, 20 fathoms deep, 9.XII.1954 (Bl.) (2r juv, 6 juv, 2 with *Petrochirus bahamensis*).

West Indies to North Carolina.

PIRULIDAE

Syn. *Ficidae*. — *Pirula*, syn. *Ficus*. — See: BAYER 1939, CLENCH 1942.

***Pirula papyratia* (Say)**

Syn. *Ficus communis* Röding, *F. reticulata* Lamarck.

MARGARITA: 25 mi. N of Margarita, 20 fathoms, 9.XII.1954 (Bl.) (4).

Mainland coast from North Carolina to Venezuela. — In deeper water.

MURICIDAE

See: CLENCH & FARFANTE 1945, CLENCH 1953, REHDER 1946, ABBOTT 1954.

***Murex chrysostoma* Gray**

ARUBA: 1002 (1); Paardenbaai, from new dock, 23.VII.1952 (Be.) (&); Pova Beach, X.1954 (Be.) (1); Malmok, 1954 (Be.) (1). CURAÇAO: Spanish

Water (v.B.J., p. 8). MARGARITA: 25 mi. N of Margarita, 20 fathoms, 9.XII.1954 (Bl.) (1). ANTIGUA: Barnacle Point, Shell Beach, 13.VII.1955 (1). Brasil to Antigua. — New for Lesser Antilles N of Tobago.

Murex brevifrons Lamarck

PARAGUANÁ (Ven.): Bahía las Piedras, 24.II.1937 (2). ARUBA Malmok, 1954 (Be.) (1 juv); Spaans Lagoen shell mound, 1.I.1949 (2 fragm); Seroe Noka shell mound, 11.V.1955 (1 fragm); Boca Prins shell mound, 26.VIII.1949 (2 fragm). CURAÇAO: 1036 (1); 1340 (r); Hato, 7.VIII.1955 (1 fragm); abri of Rooi Rincón, Hato, 11.VIII.1949 (3 fragm); Boca St Joris shell mound, 29.II.1955 (1); Tafelberg Santa Barbara shell mound, 23.III.1949 (1); (SCH., sub *M. calcitrata*). BONAIRE: Lagoen shell mound, 14.IX.1948 (1, 1 fragm); shell mound of Boca di Lac, 27.III.1955 (1); near dam Bacuna, near Lac, 23.III.1955 (1 subfossil). MARGARITA: 25 mi. N of Margarita, 20 fathoms, 9.XII.1954 (Bl.) (1, 5 with *Petrochirus bahamensis*); 20 mi. N of Margarita, 20–30 fathoms, 24.II.1955 (Bl.) (r). TRINIDAD: 1382 (1). TOBAGO: Buccoo Bay, 16.I.1955 (1). GRENADA: 1391 (2, 3). ANTIGUA: St John's Harbour, 1.VII.1955 (1); Barnacle Point, Shell Beach, Parham Sd, 13.VII.1955 (3 juv). ST MARTIN: Great Bay, 29.VI.1955 (1, with *Dardanus venosus*). ST CROIX: Shell mound at Fair Plain Bridge, 12.VI.1955 (5).

West Indies to Guyana.

Murex pomum Gmelin

ARUBA: Malmok, 1955 (Ga.) (1); Seroe Noka shell mound, 11.V.1955 (1). CURAÇAO: Boca St Joris shell mound, 29.II.1955 (3). BONAIRE: Boca di Lac shell mound, 27.III.1955 (1); Dam Bacuna, near Lac, 23.III.1955 (1, subfossil). MARGARITA: 25 mi. N of Margarita, 20 fathoms, 9.XII.1954 (Bl.) (7, with *Petrochirus bahamensis*). BARBUDA: Highlands near Darby's Cave, 10.VII.1955 (3, with *Coen.*).

West Indies to South Carolina and Brasil.

Murex nuceus Mörch

Syn. *M. cellulusus nuceus* Mörch.

CURAÇAO: Spanish Water (v.B.J., p. 8).

Antilles, Gulf of Mexico.

Tritonalia caribbaea Bartsch & Rehder — Old Providence Island.

PURPURIDAE

Drupa Röding 1798, syn. *Sistrum* Montfort 1810. — See: CLENCH 1947.

Purpura patula (Linné)

ARUBA: 1308 (2); 1311 (x); Boca Prins shell mound, 26.VIII.1949 (1, 1 fragm). CURAÇAO: 1018 (7); 1020 (2); 1020B (x); 1024 (2); 1039 (x); 1317 (x); Abri of Rooi Rincón, Hato, 11.VIII.1949 (2 fragm); Boca Westpunt, 2.XI.1954 (Za.) (1); Caracasbay, 14.XII.1954 (Za.) (x); Caracasbay, Spanish Bay, Spanish Harbour, Boca Labadera and Boca Grandi (v.B.J., p. 8). KLEIN CURAÇAO: 1046 (x); 102(2); 321 (4). KLEIN BONAIRE: 1049A (3). BONAIRE: 1056 (x); 1056Ba (2); 1057C (x); 1058A (2); 1058B (5); 1059 (3); 1059A (x); 1060A (x); 1071C (x); 1373 (x); 1375 (2); 1378 (x); Boca di Lac shell mound, 27.III.1955 (1 fragm). TRINIDAD: 1384 (1 fragm); Gasparo Grande, SW shore, 11.I.1955 (2). TOBAGO: (Co.) (1). LITTLE TOBAGO, landing, 18.I.1955 (4). GRENADA: Martin's Bay, St George, 22.I.1955 (x). ANTIGUA: 1393 (x). ST KITTS: 1397 (5). ST EUSTATIUS: 1116 (2); 1119 (5); Back-off Bay, 15.VII.1949 (8). SABA: 1120 (4); Spring Bay, 28.VII.1949 (2). ST BARTS: 1121 (4). FOURCHE: 1124 (4). ST MARTIN: 1125 (4); 1399 (8). ANGUILLA: 1142 (x). ST JOHN: 1407 (3 juv, 1). N BIMINI: 1152 (2).

West Indies.

Thais haemastoma floridana (Conrad)

Syn. *Purpura haemastoma* (Linné).

ARUBA: Boca Prins shell mound, 26.VII.1949 (1 fragm); Seroe Noka shell mound, 11.V.1955 (3). CURAÇAO: 1320 (x); Caracasbay and Spanish Water, (v.B.J., p. 8, sub *Purpura haemastoma floridana* and *P. h. haemastoma*). BONAIRE: Boca di Lac shell mound, 27.III.1955 (1 fragm); Lagoen, 2.IV.1955 (1, with *Coen.*); near Spelonk, 15.IV.1955 (1, with *Coen.*). TRINIDAD: 1384 (2). TOBAGO: 1388 (3).

West Indies to North Carolina.

Thais haemastoma haemastoma (Linné) — Trinidad to Uruguay; Senegal to France.

Thais deltoidea (Lamarck)

ARUBA: Malmok, 1954 (Be.) (5). CURAÇAO: 1017 (x); 1018 (x); 1020 (x); St Kruis Baai, 26.IV.1930 (1); Caracasbay and Boca Labadera (v.B.J., p. 8, sub *Purpura deltoidea*). KLEIN CURAÇAO: E shore, 1.X.1948 (1). KLEIN BONAIRE: 1371 (1). ISLOTE AVES: 1115 (x). ST KITTS: 1398 (x); Frigate Bay, 20.VII.1955 (2). ST BARTS: 1121 (x). FOURCHE: 1124 (2). ST MARTIN: 1125A (x). ST JOHN: 1407 (3).

West Indies to Brasil, Bermudas.

Thais rustica (Lamarck)

Syn. *Purpura haemastoma undata* (Lamarck). — *Thais undata* (Lamarck) is an indo-pacific species.

ARUBA: 1308 (Za.) (3). CURAÇAO: 1017 (x); 1018 (5); 1020A (x); 1020B (x);

1023A (x); 1324 (3); (v.B.J., p. 8, sub *Purpura haemastoma undata*). KLEIN BONAIRE: 1049A (x); 1369 (2). BONAIRE: 1056A (x); 1056Ba (x); 1058B (x); 1375 (x); 1378 (Za.) (x); near Spelonk, 15.IV.1955 (1, with Coen.). TOBAGO: 1388 (6). GRENADA: 1389 (x, 3). ISLOTE AVES: 1115 (x). BARBUDA: 1395 (8). ST BARTS: 1121 (x). FOURCHE: 1124 (2). ST MARTIN: 1125A (x); 1399 (3, 6); 1399C (1). ST JOHN: 1407 (x). N BIMINI: 1152 (2x).

West Indies to Brasil.

Drupa nodulosa (C. B. Adams)

ARUBA: 1301 (1); 1309 (2). CURAÇAO: 1020D (x); 1037A (x); Caracasbay, Spanish Bay and Spanish Water (v.B.J., p. 8, sub *Sistrum nodulosum*). KLEIN CURAÇAO: E shore, 1.X.1948 (3). KLEIN BONAIRE: 1049B (4); 1371 (2). BONAIRE: 1056A (3); 1056B (x); 1057 (3); 1057A (x); 1058C (1); 1373 (x); 1375 (6). TOBAGO: 1387 (5). GRENADA: 1389 (1). ANTIGUA: 1393 (1). ISLOTE AVES: 1114 (4). ST EUSTATIUS: 1116B (x). SABA: 1120 (3); Spring Bay, 28.VII.1949 (x). ST MARTIN: 1126 (1); 1399 (1). ST JOHN: 1407 (1).

West Indies to Brasil, Bermudas.

Drupa rosea (Reeve) — Antilles, Gulf of Mexico.

Drupa ferruginea rubida (Dall) — Antilles, Bahamas. — The typical subspecies lives on the Pacific coast of Mexico.

MAGILIDAE

Coralliophila abbreviata (Lamarck)

Syn. *C. galea* Chemnitz.

ARUBA: 1002 (2). CURAÇAO: 1019A (2); 1020 (x); 1020B (x); 1020D (1); 1029 (x); Caracasbay, Spanish bay and Spanish Water (v.B.J., p. 9). KLEIN BONAIRE: 1049B (x); NE coast, 31.VIII.1948, sandy reef, 2 m (4). BONAIRE: 1058B (x); 1058C (6); 1059A (3); 1059B (10); 1068a (2). GRENADA: 1389 (1). ST JOHN: 1408 (1).

West Indies to North Carolina.

Coralliophila deburghiae (Reeve) — West Indies to Cape Hatteras. — Possibly an ecological variety of *C. abbreviata* from deeper water.

COLUBRARIIDAE

The genera *Colubraria* and *Monostiolum* are provisionally classified in this family as was also done by JOHNSON, 1934. According to THIELE 1931, *Colubraria* is a section of *Charonia* (Cymatiidae), *Monostiolum* a section of *Pisania* (Buccinidae). WENZ (*Handb. Paläozool. VI, 5, 1941*) considers *Colubraria* a genus of the Cymatiidae, *Monostiolum* a subgenus of *Pisania*. According to ABBOTT 1954, *Colubraria* belongs to the Buccinidae, whilst *Monostiolum* is a subgenus of *Colubraria*.

Colubraria lanceolata (Menke)

CURAÇAO: 1022 (1).

West Indies to North Carolina. — Rare.

Colubraria testacea (Mörch) — Syn. *C. obscura* (Reeve) — West Indies to North Carolina.*Monostiolum swifti* (Tryon) — Antilles, Bahamas.

COLUMBELLIDAE

Syn. *Pyrenidae*. — The old genus *Columbella* has been split into several genera.
See: DALL 1908.**Columbella mercatoria** (Linné)

Plate XIV

ARUBA: 1004 (1); 1301 (5); 1309 (10, 5 juv); Pova Beach, 27.IV.1955 (19) and X.1954 (Be.) (8); Malmok, 1955 (Ga.) (3). CURAÇAO: 1020A (8); 1020B (6); 1023 (r, 1); 1037 (2); Boca Westpunt, 2.XI.1954 (Za.) (4); Caracasbay and Spanish Bay (v.B.J., p. 7). KLEIN CURAÇAO: 1.X.1948 (3 juv). KLEIN BONAIRE: 1369 (2); 1371 (6). BONAIRE: 1056A (r); 1056B (r); 1056Ba (r); 1057A (2 juv); 1057C (r2); 1068a (2); 1071A (1); 1375 (ro, 9 juv); 1377 (r juv). CUBAGUA: NW shore, 21.V.1936 (7). TRINIDAD: 1382 (2); Chacachacare, 11.I.1955 (1). TOBAGO: 1387 (5); (Co.) (&). GRENADA: 1389 (1, 1 juv). ISLOTE AVES: 1114 (5); 12.V.1949 (1). ANTIGUA: 1393 (2); St John's Harbour, fishermen's garbage, 1.VII.1955 (2). BARBUDA: 1394 (r); 1395 (r). ST KITTS: Frigate Bay, 20.VII.1955 (2). ST EUSTATIUS: 1116 (2 juv, 1); 1116B (r). ST MARTIN: 1125 (ro); 1125A (7); 1126 (r); 1128A (3); 1129 (r); 1131 (3); 1399 (1, 1 juv); Great Key, Simson Bay Lagoon, 2.VIII.1949 (1); muddy sandflat in Simson Bay Lagoon, N of bridge, 6.VI.1955; Simson Bay, new beach near bridge, 6.VI.1955 (3); Great Bay, 1955 (Bo.) (10). ANGUILLA: 1142 (1 juv). ST CROIX: 1404 (3, 3 juv). ST JOHN: 1407 (1); 1408 (1). ST THOMAS: Red Hook, 18.VI.1955 (1). NEW PROVIDENCE: Nassau, 16.VIII.1949 (2). N BIMINI: 1152 (3, 1 with hermit-crab).

West Indies to North Carolina.

Columbella dormitor Sowerby

CURAÇAO: (v.B.J., p. 7) (1).

West Indies. — A deep-water species.

Columbella rusticoides Heilprin — Syn. *C. justigata* Kiener — Cuba, Florida.**Pyrene ovulata** Lamarck

Plate XIV

CURAÇAO: Boca Westpunt, 2.XI.1954 (Za.) (1).

West Indies. — Rare.

Nitidella ocellata (Gmelin)

Plate XIV

Syn. *N. cribraria* (Lamarck).

CURAÇAO: 1018 (x); 1020 (x); 1020A (2, 1 juv); 1022 (x); 1029 (x); 1317 (x); 1324 (x); Caracasbay, Spanish Bay and Spanish Water (v.B.J., p. 7, sub *Columbella cribraria*). KLEIN CURAÇAO: 1046 (2 fragm); 1.X.1948 (1, 3 fragm). BONAIRE: 1049B (1 fragm). BONAIRE: 1056 (x); 1056Ba (4); 1057A (6); 1057C (6); 1375 (7); 1378 (Za.) (2). MARGARITA: 1216 (2). TRINIDAD: 1382 (7). TOBAGO: 1387 (2). LITTLE TOBAGO: landing, 18.I.1955 (7). GRENADA: 1389 (4). ANTIGUA: 1393 (6). ST KITTS: 1398 (x). ST EUSTATIUS: 1116 (2). SABA: 1120 (x). FOURCHE: 1124 (x juv). ST MARTIN: 1125 (4); 1125A (2); Great Bay, 1955 (Bo.) (1). ST JOHN: 1407 (1). N BIMINI: 1152 (2, 1).

West Indies.

Nitidella nitidula (Sowerby)

Plate XIV

Syn. *Columbella nitida* Lamarck.

ARUBA: 1307 (2); 1309 (2). CURAÇAO: 1020 (x); 1034 (6, 7 fragm); Caracasbay, Spanish Bay, Boca Labadera and Westpunt (v.B.J., p. 7, sub *Columbella nitida*). KLEIN CURAÇAO: 1046 (1, 4 fragm). BONAIRE: 1057C (x); 1375 (6). MARGARITA: 1216 (x). ISLOTE AVES: 1114 (4); E shore, 12.V.1949 (5 fragm). ANTIGUA: 1393 (3). ST KITTS: 1398 (9); Frigate Bay, 20.VII.1955 (1). ST EUSTATIUS: 1116 (2); 1116B (3). FOURCHE: 1124 (2). ST MARTIN: 1126 (5); Great Bay, 1955 (Bo.) (2). ANGUILLA: 1142 (x). ST JOHN: 1407 (1 fragm).

West Indies.

Nitidella laevigata (Linné)

Plate XIV

KLEIN CURAÇAO: 1046 (4). BONAIRE: 1071A (1, 1 juv); 1375 (5); 1377 (1). MARGARITA: (Av.) (5). TRINIDAD: 1382 (2). TOBAGO: 1388 (2). ST KITTS: 1397 (3); Frigate Bay, 20.VII.1955 (1). ST EUSTATIUS: 1119 (5).

West Indies.

Nitidella parvula (Dunker) — West Indies.**Anachis pulchella** (Blainville)CURAÇAO: (v.B.J., p. 7, sub *Columbella pulchella*).

West Indies.

Anachis catenata (Sowerby)CURAÇAO: Caracasbay (v.B.J., p. 7, sub *Columbella catenata*).

West Indies.

Anachis hotessieri (d'Orbigny) — West Indies.

Anachis obesa (C. B. Adams) — Syn. *A. cancellata* (Gaskoin), *A. ornata* (Ravenel) — West Indies to North Carolina.

Mitrella fusiformis (d'Orbigny) — West Indies.

Mitrella lunata Say — West Indies to Massachusetts, Gulf of Mexico.

BUCCINIDAE

Cantharus auritula (Link)

Plate VIII

CURAÇAO: 1017 (2); 1023a (1 juv); 1029 (1); 1029A (1, 1 juv); Boca Westpunt, 2.XI.1954 (Za.) (1); Boca Santa Marta, 24.II.1955 (1). KLEIN CURAÇAO: 1.X.1948 (1). KLEIN BONAIRE: 1371 (23). BONAIRE: 1057A (2); 1057B (1); 1057C (1). TRINIDAD: 1382 (3, 1); 1384 (4 fragm). TOBAGO: 1387 (1). LITTLE TOBAGO, landing, 18.I.1955 (1). ST MARTIN: 1125 (1).

West Indies.

Cantharus tinctus Conrad

BONAIRE: 1375 (3). TOBAGO: 1388 (4). GRENADA: 1389 (3); Martin's Bay, St George's, on rocks, 22.I.1955 (1).

West Indies to North Carolina, Gulf of Mexico. — Not common.

Pisania pusio (Linné)

Plate XIV

ARUBA: Pova and Eagle Beach, 8.X.1952 (Be.) (3); Pova Beach, X.1954 (Be.) (4); Malmok, 1954 (Be.) (2). CURAÇAO: 1323 (1); Boca Westpunt, 2.XI.1954 (Za.) (1); Spanish Bay (v.B.J., p. 6). KLEIN BONAIRE: SE shore, 20.VIII.1955 (1). MARGARITA: (Av.) (1). TOBAGO: 1388 (1); (Co.) (1). GRENADA: 1389 (3).

West Indies.

Engina turbinella (Kiener)

Plate VIII

ARUBA: 1309 (3). BONAIRE: 1375 (10). MARGARITA: (Av.) (1). ST KITTS: 1398 (1).

West Indies. — Not common.

Engina cumingiana Melville — St Thomas.

Engina schrammi Crosse — Guadeloupe.

Phos parvus C. B. Adams — Syn. *Bailya parva* (C. B. Adams) — West Indies.

Fusus spec.

MARGARITA: 25 miles N of Margarita, 20 fathoms, 9.XII.1954 (Bl.) (6, with *Petrochirus bahamensis*).

MELONGENIDAE

Syn. *Galeodidae*, from the non-valid name *Galeodus* Röding 1798. — See: BAYER 1952, RICHARDS 1933.

Melongena melongena (Linné)

LA GOAJIRA (Col.): Rio Hacha, 20.I.1937 (1). PARAGUANÁ (Ven.): Carirubana, 21.II.1937 (1); Bahía las Piedras, 24.II.1937 (1). ARUBA: Boca Prins shell mound, 26.VIII.1949 (1); Spaans Lagoen shell mound, 1.I.1949 (1) and 1.V.1955 (4); N slope of Seroe Canashito, V.1949 (1); Malmok, 1954 (Be.) (1). CURAÇAO: Abri of Rooi Rincón, Hato, 11.VIII.1949 (1); Hato cave, 19.I.1955 (1 fragm); Tafelberg Santa Barbara shell mound, 23.III.1949 (1); Boca St Joris shell mound, 29.II.1955 (1); (v.B.J., p. 6). BONAIRE: 1063 (1, with hermit-crab). MARGARITA: (Av.) (3). TORTUGA: 1211A (1). JAMAICA: Kingston Harbour, 31.III.1926 (1).

Antilles, N coast of South America. — It is striking that the subfossil specimens are larger than the recent ones.

NASSARIIDAE**Nassarius vibex** (Say)

Plate X

ARUBA: 1008 (2, 3). BONAIRE: 1070Aa (r). MARGARITA: (Av.) (1). ANTIGUA: St John's Harbour, 1.VII.1955 (17); The Cave, St John, 1.VII.1955 (1).

West Indies to Massachusetts, Gulf of Mexico.

Nassarius ambiguus (Montagu)

Plate X

ARUBA: 1002 (1); 1307 (1); 1309 (2); Pova Beach, 27.IV.1955 (2); Malmok, 1955 (Ga.) (4). CURAÇAO: 1019 (3); Caracasbay (v.B.J., p. 6, sub *Nassa ambigua*). KLEIN BONAIRE: 1369 (11); 1371 (4). BONAIRE: 1056A (r); 1056Ba (2); 1056C (7); 1057A (r); 1057C (6, 2 with hermit-crabs); 1058 (r); 1070c (3). MARGARITA: (Av.) (1). TRINIDAD: 1383 (8). GRENADA: 1391 (r). BARBUDA: 1396 (2). ST KITTS: 1397 (r). FOURCHE: 1124 (2). ST MARTIN: Great Saltpond, SE shore, 19.V.1949 (r); Great Key, Simson Bay Lagoon, 2.VIII.1949 (3); Great Bay, 1955 (Bo.) (1). ST CROIX: 1404 (1); 1405 (2); 1406 (2). N BIMINI: 1152 (4).

West Indies to North Carolina.

FASCIOLARIIDAE

See: JOHNSON 1919, MELVILL 1891, PILSBRY 1939.

Fasciolaria tulipa (Linné)

ARUBA: 1008 (1); Seroe Noka shell mound, 11.V.1955 (2 fragm). BONAIRE: 1375 (1). MARGARITA: (Av.) (1); 25 mi. N of Margarita, 20 fathoms, 9.XII.1954 (Bl.) (8, 3 with *Petrochirus bahamensis*). CUBAGUA: NW shore, 21.V.1936 (1). ANTIGUA: 1393 (1 fragm). ST MARTIN: 1131 (x); 1402 (1); Simson Bay Lagoon, 27.VI.1955 (1); Simson Bay Lagoon, muddy sandflat near bridge, 6.VI.1955 (2); Simson Bay, from deeper water, 6.VI.1955 (1, with hermit-crab and Actinia).

West Indies to North Carolina, Gulf of Mexico.

Fasciolaria hunteriana (Perry) — Syn. *F. distans* Lamarck — Virgin Islands to North Carolina, Texas.

Leucozonia nassa (Gmelin)

Syn. *L. cingulifera* (Lamarck).

ARUBA: 1006b (x); 1303 (z); Pova Beach, (Be.) X.1954 (1); Malmok, 1954 (Be.) (9); Malmok, 1955 (Ga.) (1). CURAÇAO: 1018 (x); 1018A (x); 1020 (x); 1020B (x); 1022 (1); 1023 (x); 1024 (x); 1038 (x); 1039 (x); Boca Westpunt, 2.XI.1954 (Za.) (1z); Boca Santa Marta, 12.XII.1954 (Za.) (5) and 24.II.1955 (2); Santa Marta, 20.XI.1955 (Za.) (1, with *Coen.*); Boca Spaanse Water, 16.X.1948 (x); Spanish Water, Spanish Bay and Caracasbay (v.B.J., p. 6, sub *L. cingulifera*). KLEIN BONAIRE: 1371 (1). BONAIRE: 1056A (x, r juv); 1058C (x); 1060A (x); 1068a (x); 1379 (x); Lagoen, 2.IV.1955 (1, with *Coen.*); Cueba Kinkoe, Lima, 16.IX.1948 (2, with *Coen.*). MARGARITA: 1216 (x). TOBAGO: 1387 (1). ST MARTIN: 1125A (z); 1126 (x). ANGUILLA: 1142 (z).

West Indies, Texas.

Leucozonia ocellata (Gmelin)

ARUBA: 1308 (Za.) (x). CURAÇAO: Spanish Bay and Boca Grandi (v.B.J., p. 6). TOBAGO: 1385 (x). GRENADA: 1389 (x). SABA: 1120 (x). ST BARTS: 1121 (x). FOURCHE: 1124 (x r juv).

West Indies.

Leucozonia leucozonalis (Lamarck) — Tortugas.

Leucozonia triserialis (Lamarck) — Antilles to Brasil.

Latirus brevicaudatus (Reeve)

ARUBA: Malmok, 1954 (Be.) (2). CURAÇAO: (Mrs. J. G. de Jong) (6); Caracas-bay and Spanish Water (v.B.J., p. 6).

West Indies. — Rare.

Latirus infundibulum (Gmelin)

ARUBA: Malmok, 1955 (Ga.) (1).

West Indies. — Rare.

Latirus eppi Melvill

CURAÇAO: (v.B.J., p. 6; MELVILL 1891a).

Curaçao. — Rare.

Latirus distinctus (A. Adams)

CURAÇAO: (MELVILL 1891).

Cuba, Curaçao.

Latirus cayonesonicus (Sowerby) — St Thomas.

Latirus tumens (Carpenter) — Central American coast.

OLIVIDAE

See: ABBOTT 1951, CLENCH 1934, 1938.

Oliva reticularis Lamarck

ARUBA: 1301 (1); Bucutu, 6.V.1955 (2); Druif, 30.IV.1955 (1); Palm Beach, 3.I.1949 (1); Pova Beach, 27.IV.1955 (1), and X.1954 (Be.) (2); Malmok, 1954 (Be.) (2), and 1955 (Ga.) (1). CURAÇAO: (v.B.J., p. 4). KLEIN BONAIRE: 1371 (1). CUBAGUA: NW shore, 21.V.1936 (2). TOBAGO: (Co.) (2). ANTIGUA: 1393 (1). ST MARTIN: muddy sandflat of Simson Bay Lagoon, N of bridge, 6.VI.1955 (7); Great Bay, 1955 (Bo.) (2).

West Indies.

Oliva fusiformis Lamarck

ARUBA: Malmok, 1955 (Ga.) (4). CURAÇAO: (v.B.J., p. 3). MARGARITA: 20 mi. N of Margarita, 20–30 fathoms, 24.II.1955 (Bl.) (1).

West Indies.

Olivella jaspidea (Gmelin)

CURAÇAO: 1038 (x); Caracasbay, Spanish Harbour and Spanish Water (v.B.J., p. 3). KLEIN BONAIRE: 1371 (14.) TOBAGO: (Co.) (1). GRENADA: 1389 (1).

West Indies to North Carolina. — New for the islands South of Barbados. — Curiously enough, JOHNSON 1934 states that the species occurs in deeper water whilst according to ABBOTT 1954 it is only known from the islands north of Barbados.

Olivella nivea (Gmelin)

Syn. *O. dealbata* Reeve.

ARUBA: 1004 (1); 1301 (2); 1307 (1); 1309 (17); Bucuti, 17.I.1949 (2).
CURAÇAO: 1020A (2); 1020B (x); 1022 (x); 1023 (2); 1322 (6). KLEIN BONAIRE:
1049 (3); 1369 (10); 1371 (11). BONAIRE: 1056B (x); 1056C (2); 1059B (x);
1068a (x); 1071A (x); 1373A (12). ISLOTE AVES: 1114 (2).

West Indies, Bermudas.

Olivella myriadina Ducloz

ARUBA: Bucuti, 17.I.1949 (2). CURAÇAO: 1019A (8). KLEIN BONAIRE:
1049 (3); NE coast, 31.VIII.1948 (2).

Antilles.

Olivella mutica (Say)

Syn. *O. nitidula* (Dillwyn).

CURAÇAO: Boca di Westpunt, 2.XI.1954 (Za.) (1). MARGARITA: (Av.) (4).
West Indies to North Carolina, Texas.

Olivella pellucida (Reeve) — Antilles.

Olivella pusilla (Murrat) — West Indies to North Carolina, Gulf of Mexico.

Olivella floralia (Ducloz) — West Indies to North Carolina.

Ancilla glabrata (Linné)

PARAGUANÁ (Ven.): Carirubana, 21.II.1937 (4). ARUBA: Pova Beach,
X.1954 (Be.) (1); Malmok, 1954 (Be.) (3); E of Dakota Airport, 13.I.1949
(2); Seroe Noka shell mound, 11.V.1955 (1). CURAÇAO: (v.B.J., p. 4, sub
Ancillaria glabrata).

Antilles. — Not common.

Ancilla tankervilli (Swainson)

CURAÇAO: (REEVE, Conch. Icon. 15, 1864). MARGARITA: (Av.) (2).
Antilles. — Rare.

MITRIDAE

See: MELVILL 1925.

Mitra barbadensis (Gmelin)

Plate IX

ARUBA: Pova Beach, X.1954 (Be.) (2); Malmok, 1955 (Ga.) (5). CURAÇAO:
Caracasbay (v.B.J., p. 5). KLEIN BONAIRE: 1049B (r); 1371 (2). BONAIRE:
1057A (r); 1375 (r). ST MARTIN: 1125A (r). ANGUILLA: 1142 (r).

West Indies.

Mitra nodulosa (Gmelin)

Plate IX

Syn. *M. granulosa* Lamarck.

ARUBA: Malmok, 1954 (Be.) (4), and 1955 (Ga.) (1). CURAÇAO: 1019 (2);
1020C (2); 1020D (4); 1022 (2); Boca Westpunt, 2.XI.1954 (Za.) (4); Boca
Santa Marta, 24.II.1955 (1); Caracasbay (v.B.J., p. 5, sub *M. granulosa*).
BONAIRE: 1056A (2); 1056B (3); 1056C (2); 1059B (r). GRENADA: 1389 (1).

West Indies to North Carolina.

Mitra sulcata (Gmelin) — Syn. *M. albocincta* C. B. Adams — West Indies.

Mitra florida Gould — Syn. *M. fergusonii* Sowerby — West Indies.

Mitra hendersonii Dall — West Indies.

Mitra swainsonii antillensis Dall — West Indies to North Carolina.

Mitra puella Reeve — West Indies to North Carolina.

Mitra hanleyi Dohrn — West Indies.

Turricula dermestina (Lamarck)

CURAÇAO: Spanish Bay (v.B.J., p. 6).
Antilles.

VASIDAE

Syn. *Xancidae*. — See ABBOTT 1950.

Xancus angulatus (Solander) — Cuba, Florida, Bermudas, from Yucatán to Colombia.

Vasum capitellum (Linné)

Plate XVI

ARUBA: 1301 (2). CURAÇAO: 1018 (x); 1018A (x); 1020B (x); 1023a (z); 1037 (1); 1361 (3); Boca Westpunt, 2.XI.1954 (Za.) (6); Boca Santa Marta, 2.XII.1954 (Za.) (3), and 24.II.1955 (6); Klein Piscadera, 4.II.1955 (Za.) (1); Caracasbay and Spanish Water (v.B.J., p. 5). KLEIN CURAÇAO: 1.X.1948 (1); 9.I.1955 (Za.) (1). KLEIN BONAIRE: SE shore, 20.VIII.1955 (4). BONAIRE: 1057C (1, with hermit-crab); near Spelonk, 15.IV.1955 (1, with *Coen.*). GRENADA: 1389 (1).

Puerto Rico, Lesser Antilles, Colombia. — From CURAÇAO (v.B.J., p. 5) the variety *mitis* (Lamarck), which has not been generally accepted, is also known.

Vasum muricatum (Born)

Plate XVI

ARUBA: 1303 (x); Bucuti reef, 8.II.1937 (x); Malmok, 1954 (Be.) (2), and 1955 (Ga.) (1).

West Indies. — New for the Lesser Antilles.

VOLUTIDAE

See: DALL 1907, PILSBRY & OLSSON 1953.

Voluta musica Linné

Plate XVI

This species is very variable. Several forms have been named by some authors.

PARAGUANÁ (Ven.): Bahía las Piedras, 24.II.1937 (1). ARUBA: 1301 (1); Pova Beach, X.1954 (Be.) (1); Malmok, 1954 (Be.) (4). CURAÇAO: 1320 (1); Boca Santa Marta, 12.XII.1954 (Za.) (1); Caracasbay and Spanish Bay (v.B.J., p. 5). KLEIN BONAIRE: N shore, 30.III.1955 (1); SE shore, 20.VIII.1955 (2). BONAIRE: Boca di Lac, 29.III.1955 (1). MARGARITA: (Av.) (1). TOBAGO: (Co.) (1). GRENADA: 1389 (x juv); Martin's Bay, St George, 22.I.1955 (1).

Antilles.

Voluta virescens Solander — Syn. *V. polygonalis* Lamarck — West Indies, Texas.

Voluta ebraeae, mentioned by AGUAYO & JAUME (1947–1952, p. 108) as occurring in the West Indies, is an indo-pacific species.

CANCELLARIIDAE

Cancellaria reticulata (Linné)

MARGARITA: (Av.) (1).

Florida to North Carolina, Gulf of Mexico, Margarita. — New for the Antilles.

Cancellaria tenera Philippi — West Indies, Gulf of Mexico.

Cancellaria rugosa Lamarck — Antilles.

Cancellaria similis Sowerby — Antilles.

MARGINELLIDAE

The ancient genus *Marginella* has been split into several genera, such as *Prunum*, *Persicula*, *Hyalina* and *Gibberulina*. — See: BORRO 1946, TOMLIN 1917.

Marginella marginata (Born)

ARUBA: Pova Beach, X.1954 (Be.) (1 juv); Malmok, 1955 (Ga.) (4); Seroe Noka shell mound, 11.V.1955 (1). MARGARITA: 20 miles N of Margarita, 20-30 fathoms, 24.II.1955 (Bl.) (2).

West Indies. — Not common.

Marginella margarita Kiener

CURAÇAO: (v.B.J., p. 4).

West Indies. — Rare.

Marginella obscura Reeve

CURAÇAO: (v.B.J., p. 4).

West Indies. — A deep-water species.

Marginella denticulata Conrad — West Indies to North Carolina.

Marginella aureocincta Stearns — West Indies to North Carolina, Gulf of Mexico.

Marginella fauna Sowerby — West Indies.

Marginella pellucida Pfeiffer — West Indies.

Marginella nivosa Hinds — Syn. *M. nivea* C. B. Adams — West Indies.

Marginella storeria Couthony — West Indies, Gulf of Mexico.

Prunum carneum (Storer) — West Indies.

Prunum guttatum (Dillwyn) — West Indies to North Carolina.

Prunum apicium (Menke) — West Indies to North Carolina, Gulf of Mexico.

Persicula chrysomelina (Redfield)

ARUBA: 1002 (3); Bucuti, 17.I.1949 (1). CURAÇAO: 1019A (s, 2 fragm); (v.B.J., p. 4, sub *Marginella chrysomelina*).

Antilles.

Persicula catenata (Montagu)

CURAÇAO: 1021 (x); Caracasbay (v.B.J., p. 4, sub *Marginella catenata*).
 KLEIN BONAIRE: 1049B (z). BONAIRE: 1056B (x); 1064 (x); 1068a (x).
 S BIMINI: 1150A (x).

West Indies.

Persicula lavalleena (d'Orbigny)

(In most cases misspelled *lavallena*.) Syn. *P. minuta* (Pfeiffer).

ARUBA: Bucuti, 17.I.1949 (1); Salinja Taratata, Oranjestad, 30.VI.1930 (x).
 CURAÇAO: 1019A (z). KLEIN BONAIRE: 1049B (z); NE coast, 31.VIII.1949 (z).
 BONAIRE: 1056C (z). ST BARTS: Gustavia Harbour, 1.VI.1949 (3). ST MARTIN:
 1132 (3). ANGUILLA: near Forest Point, 20.VI.1949 (1).

West Indies.

Persicula interruptolineata (Mühlfeldt)

(In most cases misspelled *interruptelineata*.)

CURAÇAO: (v.B.J., p. 4, sub *Marginella interruptelineata*). MARGARITA:
 (Av.) (5). TRINIDAD: 1384 (4).

Antilles.

Persicula pulcherrima (Gaskoin) — West Indies.

Hyalina avena (Kiener)

ARUBA: 1301 (1 fragm). CURAÇAO: 1022 (x); Caracasbay and Spanish Water
 (v.B.J., p. 4, sub *Marginella avena*). BONAIRE: 1064b (z). TOBAGO: 1387 (z).
 ISLOTE AVES: E shore, 12.V.1949 (2). ST MARTIN: Great Bay, 1955 (Bo.) (3).

West Indies to North Carolina.

Hyalina lactea (Kiener)

ARUBA: 1004 (x). BONAIRE: 1055 (x); 1056C (x); 1067 (x). ST MARTIN:
 1127 (x); 1131 (z); 1132 (1 juv); 1132A (x); Great Key, Simson Bay Lagoon,
 2.VIII.1949 (1).

West Indies.

Hyalina roosevelti (Bartsch & Rehder) — Old Providence Island.

Hyalina avenacea (Deshayes) — West Indies to North Carolina. — According to
 TOMLIN 1917, the name *avenacea* is an "error for *avena*, Kiener", and the name
 of the species meant here must be *H. succinea* (Conrad), syn. *H. avenella* Dall.

Gibberulina ovuliformis (d'Orbigny) — West Indies to North Carolina.

CONIDAE

See: AGUAYO & FARFANTE 1947, CLENCH 1942, 1953, LYMAN 1937, SMITH 1946.

Conus ranunculus Bruguière

Plate XV

Syn. *C. testudinarius* Martini.

ARUBA: Malmok, 1954 (Be.) (1). CURAÇAO: Boca Santa Marta, 12.XII.1954 (Za.) (1); Caracasbay and Spanish Bay (v.B.J., p. 3, sub *C. testudinarius*). KLEIN CURAÇAO: 1.X.1948. KLEIN BONAIRE: W shore, 28.III.1955 (3). TOBAGO: (Co.) (3). ISLOTE AVES: 12.V.1949 (1).

Puerto Rico, Lesser Antilles to N coast of South America; West Africa.

Conus citrinus Gmelin

Plate XV

Syn. *C. mus* Hwass.

ARUBA: 1301 (1); Bucuti, 17.I.1949 (1 juv); Malmok, 1954 (Be.) (2), and 1955 (Ga.) (2). CURAÇAO: 1018A (x); 1021 (1); 1039 (x); Boca Westpunt, 2.XI.1954 (Za.) (7); St Kruis Baai, 7.X.1948 (1); Boca Santa Marta, 12.XII.1954 (Za.) (3), and 24.II.1955 (4); Boca, Spaanse Water, rocky beach, 16.X.1948 (x); Caracasbay, Spanish Bay and Westpunt (v.B.J., p. 3, sub *C. mus*, and *C. roseus*). KLEIN CURAÇAO: 1.X.1948 (4); 9.I.1955 (Za.) (1). KLEIN BONAIRE: 1049B (3, 3 juv); 1369 (x); 1371 (8). BONAIRE: 1056Aa (x); 1056B (2 juv); 1057 (x juv); 1057A (x); 1059B (x juv); 1375 (x). TOBAGO: (Co.) (15). ST EUSTATIUS: 1116 (1); 1116B (x). ST BARTS: 1121 (x). ST MARTIN: 1125A (1); Great Bay 1955 (Bo.) (1). ANGUILLA: 1142 (x). N BIMINI: 1152 (5).

West Indies, Bermudas.

Conus regius Gmelin

Plate XV

Syn. *C. nebulosus* Solander.

ARUBA: Malmok, 1954 (Be.) (7). CURAÇAO: Boca Santa Marta, 24.II.1955 (1); Boca, Spaanse Water, 16.X.1948 (x); Caracasbay (v.B.J., p. 3, sub *C. nebulosus*). KLEIN CURAÇAO: 9.I.1955 (Za.) (3). KLEIN BONAIRE: SE shore, 20.VIII.1955 (1). ST EUSTATIUS: 1116 (1); 1116B (x). ST BARTS: 1121 (x). ST MARTIN: 1125A (1). ANGUILLA: 1142 (x).

West Indies to Brasil.

Conus daucus Bruguière

Plate XV

ARUBA: Malmok, 1954 (Be.) (3). CURAÇAO: Boca Santa Marta, 12.XII.1954 (Za.) (1).

West Indies. — Not common. According to CLENCH 1942, living in deeper water.

Conus dominicanus Bruguière

Plate XV

Syn. *C. cedonulli dominicanus*.

ARUBA: Malmok, 1955 (Ga.) (7).

West Indies. — Rare.

Conus granulatus Linné

Plate XV

ARUBA: Pova Beach, 1954 (Be.) (1); Malmok, 1955 (Ga.) (1). CURAÇAO: Boca Santa Marta, 24.II.1955 (4); Spanish Bay (v.B.J., p. 3).

West Indies. — Not common. According to CLENCH 1942, a species from deeper water.

Conus jaspideus Gmelin

Plate XV

ARUBA: Malmok, 1955 (Ga.) (1). MARGARITA: (Av.) (1).

West Indies. — Not common.

Conus jaspideus pygmaeus Reeve

Plate XV

ARUBA: Pova Beach, 27.IV.1955 (1); Malmok, 1955 (Ga.) (4). ANTIGUA: St John's Harbour, 1.VII.1955 (3). ST MARTIN: Great Bay, 1955 (Bo.) (1).

Panamá to Trinidad, Lesser Antilles. — New for the islands north of Trinidad.

Conus spurius Gmelin

Plate XV

LA GOAJIRA (Col.): Rio Hacha, 20.I.1937 (3). PARAGUANÁ (Ven.): Carirubana, 23.II.1937 (3). ARUBA: 1301 (1); Pova Beach, X.1954 (Be.) (2).

West Indies. — According to CLENCH 1942, the specimens belong to his subspecies *atlanticus*. Typical *spurius* was only known from Bahamas and Greater Antilles.**Conus verrucosus** Hwass

Plate XIV

ARUBA: Malmok, 1955 (Ga.) (3). CURAÇAO: (Mrs. J. G. de Jong) (1).

West Indies.

Conus perryae Clench

Plate XIV

ARUBA: Malmok, 1955 (Ga.) (3).

New for the Lesser Antilles.

TURRIDAE

This family comprises many species which occur in deeper water; some of them, however, have also been found on the shores. — See: BARTSCH 1943, BARTSCH & REHDER 1939.

Polystira albida (Perry) — West Indies, Gulf of Mexico.

***Daphnella lymnaeiformis* (Kiener)**

CURAÇAO: Spanish Water (v.B.J., p. 3).

West Indies. — From deeper water.

Mangelia atrostyla Dall — West Indies to North Carolina, Gulf of Mexico.

Mangelia biconica (C. B. Adams) — West Indies to North Carolina.

Mangelia monilifera (Sowerby) — West Indies.

Mangelia quadrata (Reeve) — West Indies to North Carolina, Gulf of Mexico.

Monilispira albinodata (C. B. Adams) — West Indies, Texas.

Monilispira albomaculata (C. B. Adams) — Antilles.

Monilispira leucocyma (Dall) — West Indies.

Crassispira ebenina (Dall) — West Indies.

TEREBRIDAE

Eurita, syn. *Spineoterebra*. — See: JAUME 1944, MCGINTY 1939.

***Terebra cinerea* (Born)**

Plate IX

MARGARITA: (Av.) (1).

West Indies, Texas.

***Terebra hastata* (Gmelin)**

KLEIN BONAIRE: 1369 (1).

West Indies.

***Terebra dislocata* Say**

Plate IX

N BIMINI: 1152 (1).

West Indies to Virginia, Texas.

Terebra taurinum (Solander) — Syn. *T. flammea* Lamarck, *T. feldmanni* Röding — West Indies, Gulf of Mexico.

Eurita aciculata (Lamarck)

Plate IX

MARGARITA: (Av.) (2).

West Indies.

GASTROPODA OPISTHOBRANCHIA

ACTEOCINIDAE

Acteocina bullata (Kiener) — West Indies, Bermudas.*Acteocina rectus* (d'Orbigny) — West Indies.

HYDATINIDAE

Hydatina vesicaria (Solander)

Plate X

ARUBA: Malmok, 1954 (Be.) (1). CURAÇAO: (Mrs. J. G. de Jong) (1).

West Indies, Gulf of Mexico, Bermudas.

Hydatina physis (Linné), mentioned by JOHNSON 1934 from the West Indies, is an indo-pacific species.**Micromelo undata** (Bruguière)

Plate X

CURAÇAO: (Mrs. J. G. de Jong) (1). BONAIRE: 1375 (x). GRENADA: 1389 (x).

West Indies, Bermudas.

BULLIDAE

It has proved to be impossible to identify all specimens of the genus *Bulla*, which may comprise at least two species. — AGUAYO & JAUME (1947-1952) mention: *Bulla amygdala* (Dillwyn), from St Thomas and Cuba; *Bulla occidentalis* (A. Adams), possibly a variety of *B. striata*, West Indies; *Bulla solida* (Gmelin), West Indies and Gulf of Mexico; *Bulla striata* (Bruguière), Florida and Cuba, Mediterranean Sea. — According to ABBOTT 1954, *B. amygdala* is a variety of *B. striata*. — See also: MARCUS 1955.

Bulla spec.

ARUBA: 1002 (20); 1004 (2); 1008 (2); 1301 (4); Pova Beach, X.1954 (Be.) (5); Malmok, 1954 (Be.) (5), and 1955 (Ga.) (4); Spaans Lagoen shell mound, 1.I.1949 (1); Seroe Noka shell mound, 11.V.1955 (1). CURAÇAO: 1020B (2); 1034 (1); 1038 (1 juv); 1038a (2 juv); Boca Westpunt, 2.XI.1954 (Za.) (1);

St Kruis Baai, 7.X.1948 (2); Salinja Santa Marta, 4.XII.1948 (5); Boca San Juan, 6.II.1955 (1). KLEIN BONAIRE: 1049B (1); 1371 (2). BONAIRE: 1064Ab (2); 1070C (4 juv); 1375 (1); Lagoen, SE part, 14.IX.1948 (1); Dam Bacuna, 23.III.1955 (3, subfossil). MARGARITA: (Av.) (2). TRINIDAD: Chacachacare, 11.I.1955 (1). TOBAGO: 1385 (5); Buccoo Bay, 16.I.1955 (1); (Co.) (5). GRENADA: 1391 (1); Martin's Bay, St George, 22.I.1955 (1). ANTIGUA: 1393 (1); St John's Harbour, 1.VII.1955 (9). BARBUDA: 1396 (&). ST KITTS: 1398 (7); Frigate Bay, 20.VII.1955 (5). ST EUSTATIUS: 1116 (1 juv); 1117 (7 juv); 1118 (1, 13 juv). ST BARTS: Gustavia Harbour, 4.VI.1949 (&). ST MARTIN: 1132 (1); 1132a (5); 1132A (1, 1 fragm); 1402 (3); muddy sandflat of Simson Bay Lagoon, N of bridge, 6.VI.1955 (22); Great Key, Simson Bay Lagoon, 2.VIII.1949 (2); Simson Bay, new beach at bridge, 6.VI.1955 (2). ST CROIX: 1404 (6); 1406 (5). ST JOHN: 1407 (2); Cruz Bay, 19.VI.1955 (1). JAMAICA: Kingston Harbour, 26.III.1926 (1). S BIMINI: 1150A (3).

GASTROPODA PULMONATA

ELLOBIIDAE

Melampus coffeus (Linné)

Plate XI

ARUBA: 361 (7 juv); Malmok, 1954 (Be.) (1). CURAÇAO: 326 (♂). BONAIRE: 308 (♂); SE Lagoen, 14.IX.1948 (&). TOBAGO: (Co.) (1). ANTIGUA: St John's Harbour, 1.VII.1955 (1). ST MARTIN: 476 (♂); 477 (20); 1132a (&); 1132A (6); Great Saltpond, SE shore, 19.V.1949 (2). ST CROIX: (G. A. Seaman) (♂).

West Indies, Gulf of Mexico.

Melampus flavus (Gmelin) and *Melampus gundlachi* Pfeiffer are probably varieties of *M. coffeus*; they live in the same range.

Melampus lineatus Say

Plate XI

S BIMINI: 497 (9).

Gulf of Mexico to Prince Edward Island (Canada). Not known from the Antilles.

Tralia pusilla (Gmelin)

Plate XI

ARUBA: Malmok, 1955 (Ga.) (1). BONAIRE: 302 (3). LOS FRAILES: La Pecha, 1215 (1).

West Indies.

Detracia bulloides (Montagu) — West Indies.

Auriculastrum pellucens (Menke) — West Indies.

Pedipes mirabilis (Mühlfeld) — West Indies, Bermudas.

Blauneria heteroclita (Montagu) — West Indies.

Phytia myosotis (Draparnaud) — Atlantic coast of U.S.A.; Europe. Introduced in the West Indies, and in California.

GADINIDAE

Gadinia peruviana (Sowerby) — Syn. *G. carinata* Dall — Antilles; Pacific coast of Central America to Chile.

SIPHONARIIDAE

Siphonaria pectinata (Linné)

Plate I

Syn. *S. lineolata* d'Orbigny.

ARUBA: Boca Prins, on limestone in surf, 28.VI.1930 (4); Malmok, 1954 (Be.) (1). MARGARITA: (Av.) (1). TRINIDAD: Maracas Bay, 29.I.1955 (3).

West Indies, Gulf of Mexico; Mediterranean Sea.

Siphonaria alternata (Say)

CUBAGUA: NW shore, 21.V.1936 (1).

West Indies, Gulf of Mexico, Bermudas.

Siphonaria hispida Smith — Antilles to Brasil.

Williamia krebsii (Mörch) — West Indies, Bermudas.

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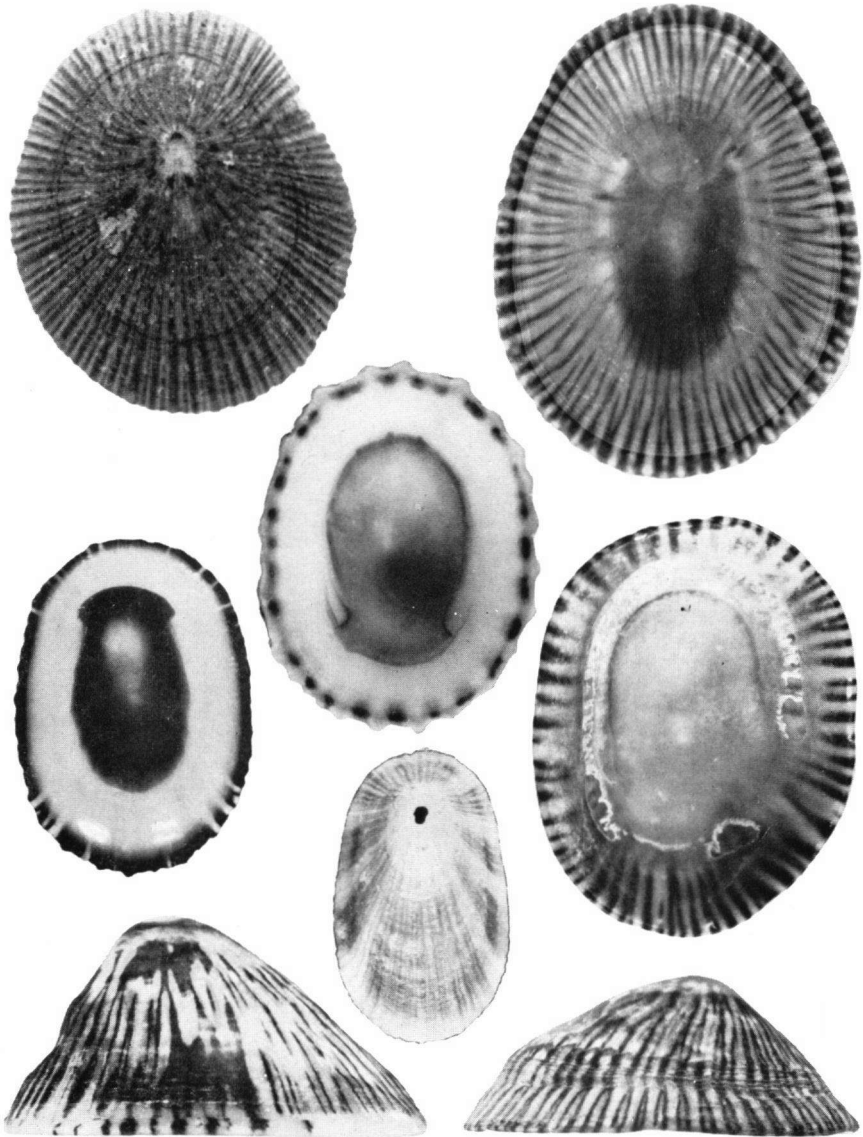
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I. *Acmaea antillarum* from Curaçao ($\times 3\frac{1}{2}$), apical view (top left) and basal view (top right); violet brown with grey, inside tinged with violet, with radial brownish stripes, brownish at margin and in centre.

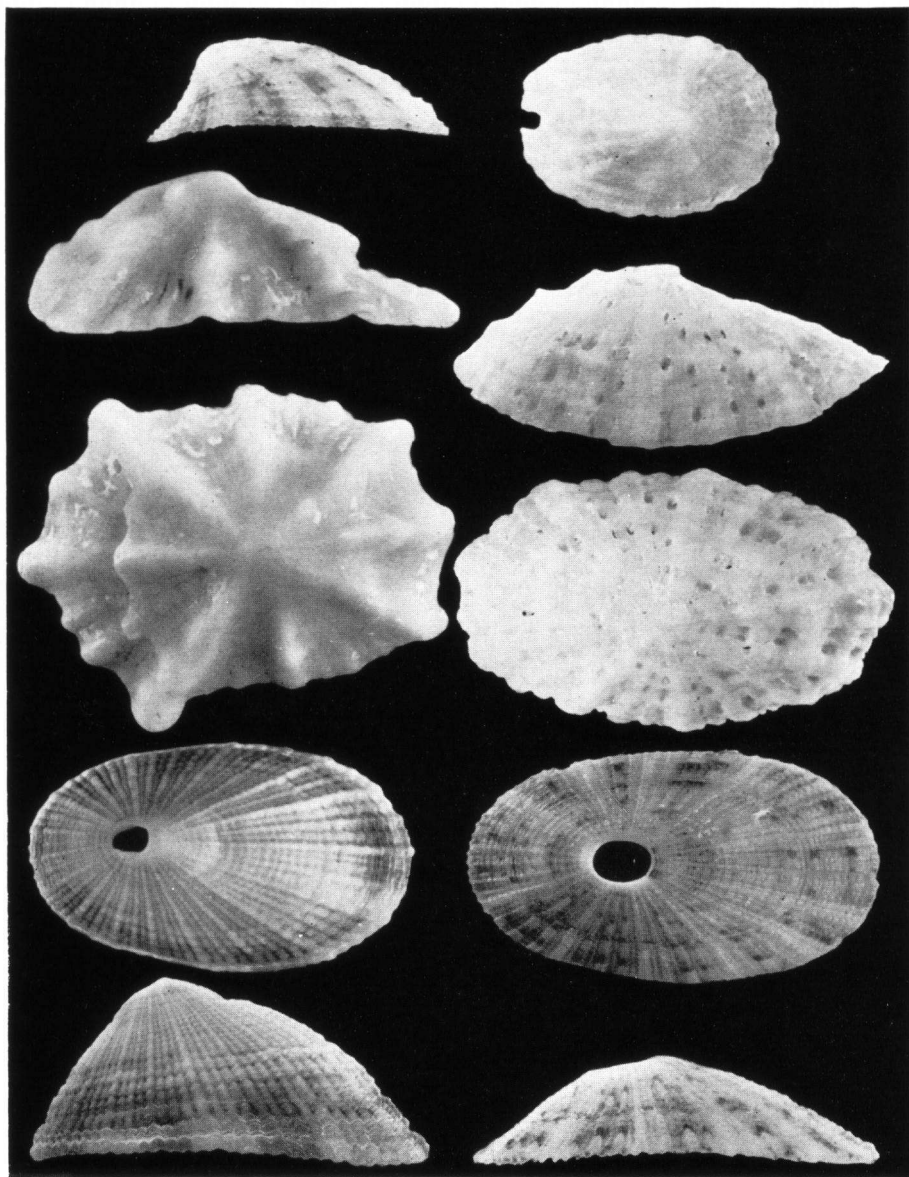
A. jamaicensis from Saba ($\times 3\frac{1}{2}$), basal view (top centre); yellowish grey from above, inside white, with a light-brown margin with dark patches, and a dirty-greyish centre.

A. leucopleura from Antigua ($\times 3\frac{1}{2}$), lateral view (bottom left), and St. Martin, basal view (left centre); dirty-brown and blackish design, inside with dirty-brown and blackish margin and bluish-grey centre.

Diodora minuta from Aruba ($\times 5\frac{1}{2}$), apical view (bottom centre); slightly yellowish, with greyish and brownish radial bands.

Siphonaria pectinata from Trinidad ($\times 3\frac{1}{2}$), side view (bottom right) and basal view (right centre); dirty white, with bluish or brownish black, inside somewhat bluish-brown with black.

PLATE II



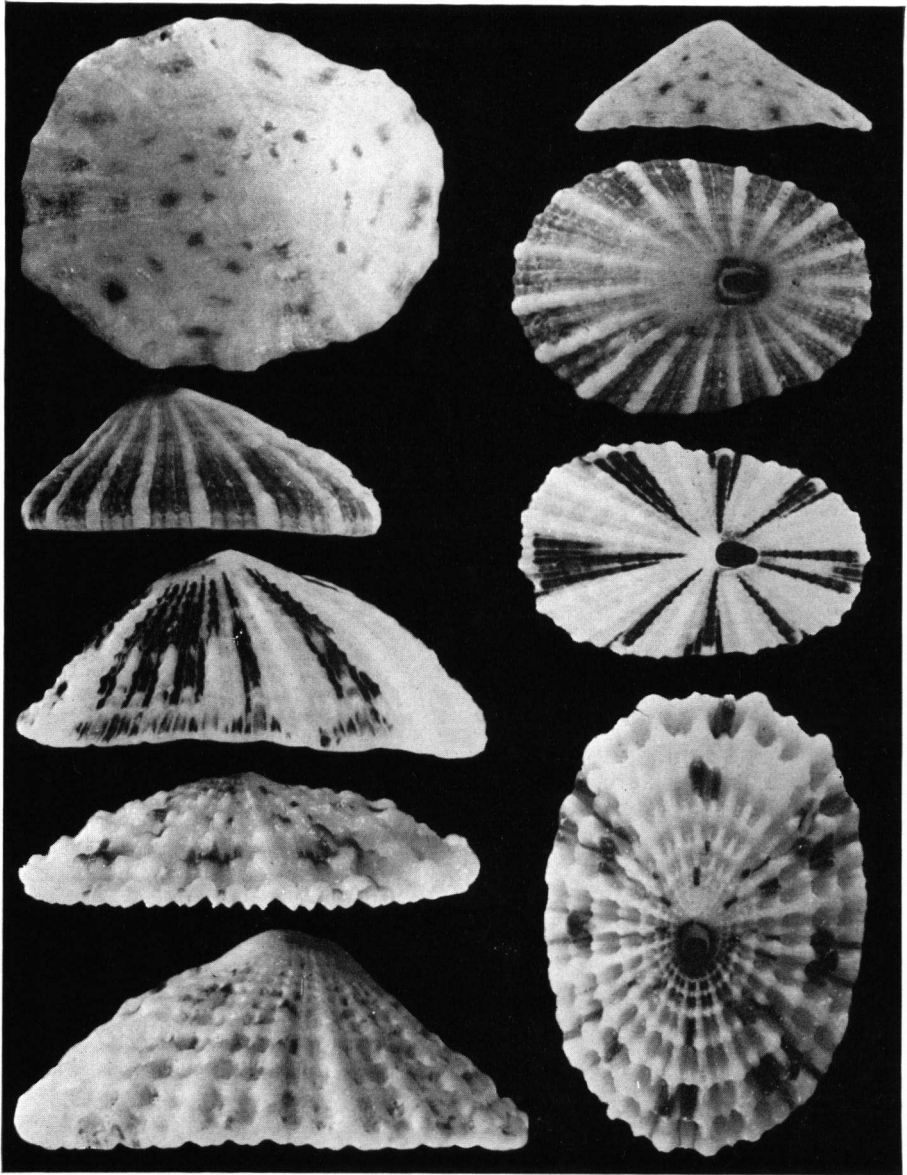
II. *Emarginula pumila* from Curaçao ($\times 5\frac{1}{2}$), lateral view (top left), and Aruba ($\times 5\frac{1}{2}$), apical view (top right); whitish in colour.

Subemarginula octoradiata from St. Martin ($\times 3\frac{1}{2}$), lateral view (left upper centre) and apical view (left centre); whitish.

S. emarginata from Aruba ($\times 2\frac{1}{4}$), lateral view (right upper centre) and apical view (right centre); white with irregular patches of lemon yellow.

Diodora cayenensis from Barbuda ($\times 1\frac{3}{8}$), lateral view (bottom left) and apical view (left lower centre); whitish, with increasing brownish and greenish colouring towards the margin.

Lucapina sowerbii from Curaçao ($\times 2\frac{1}{4}$), lateral view (bottom right) and apical view (right lower centre); slightly yellowish with brown.



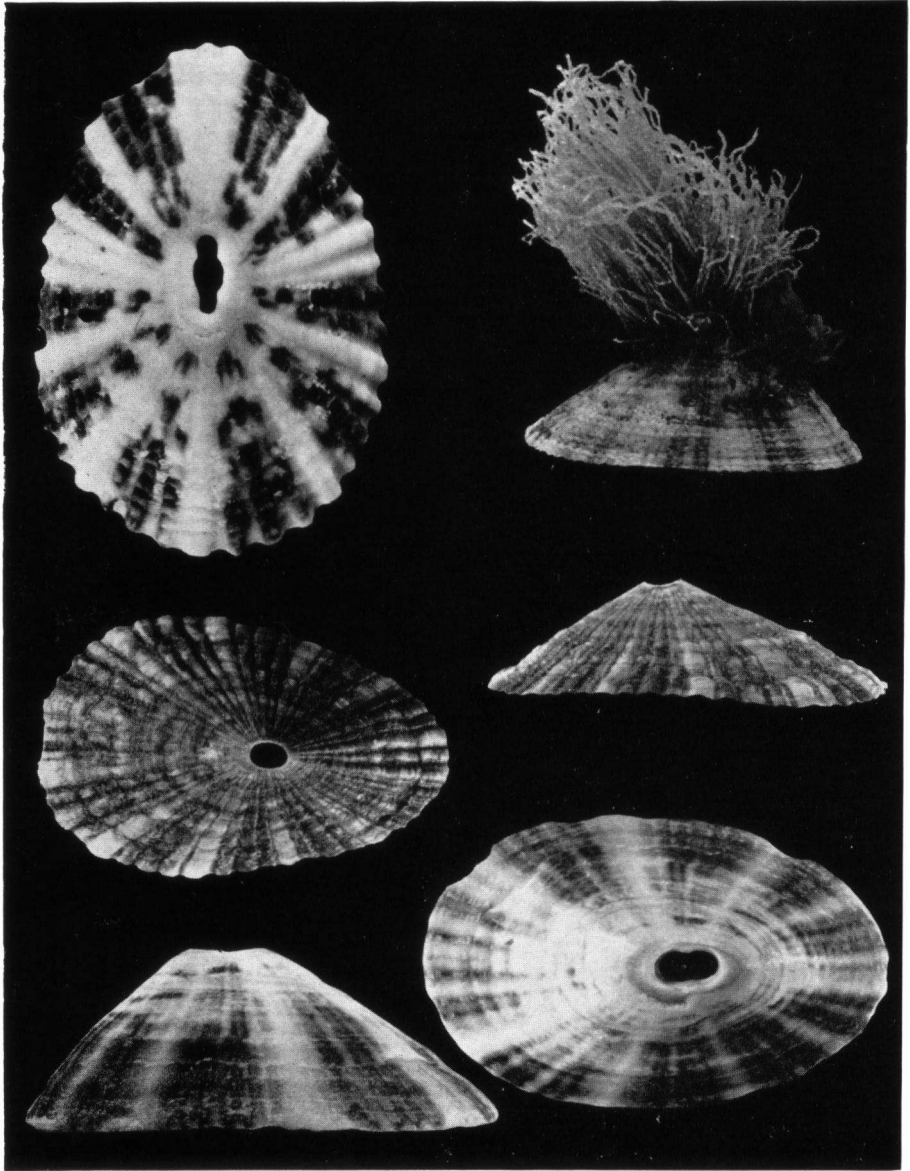
III. *Acmaea pustulata* from Aruba ($\times 3\frac{1}{2}$), lateral view (top right) and apical view (top left); white with orange patches.

Diadora viridula from Aruba ($\times 2\frac{1}{4}$), lateral view (left upper centre) and apical view (right upper centre); radial bands of yellowish green to dark moss-green towards the margin, white between.

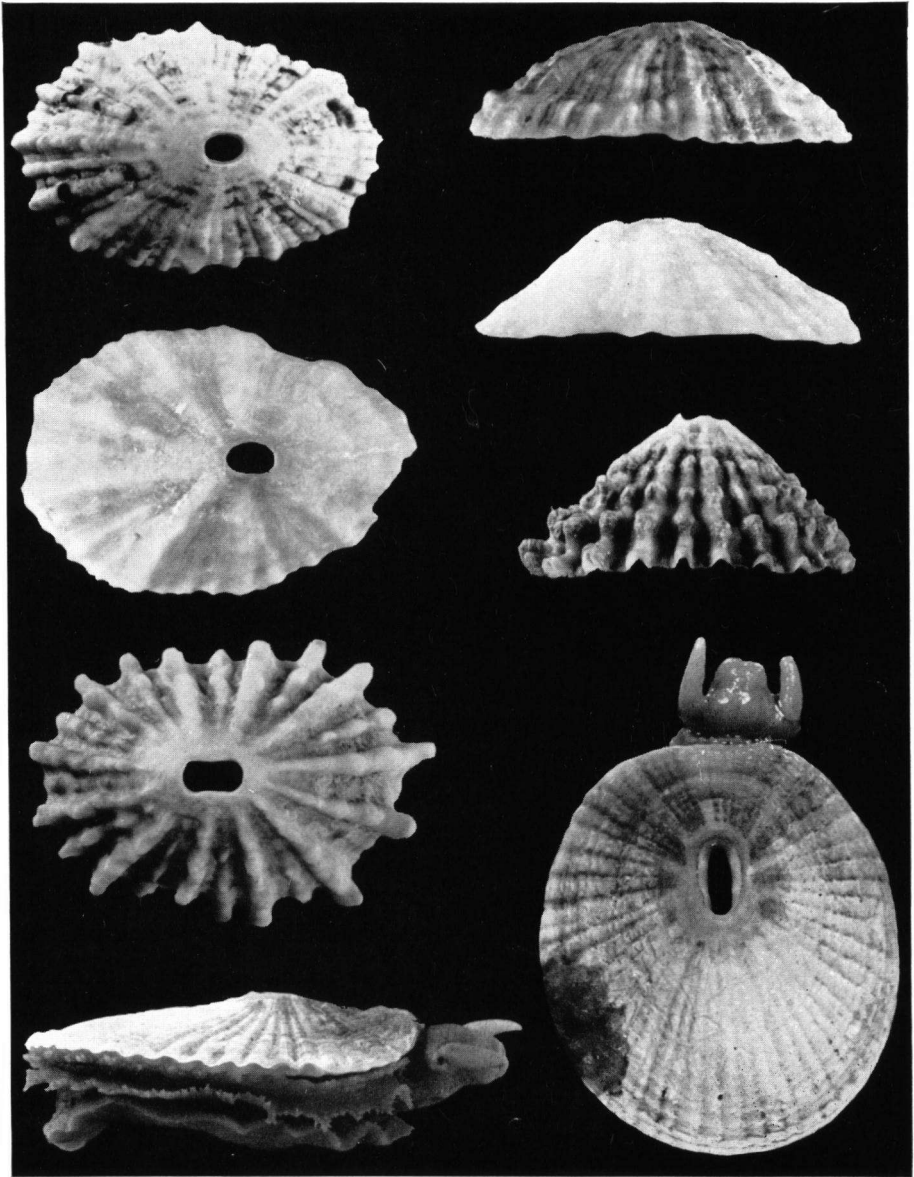
D. dysoni from Aruba ($\times 4\frac{1}{2}$), lateral view (left centre) and apical view (right centre); black on white.

D. listeri from Curaçao ($\times 3\frac{1}{2}$), lateral views (left lower centre and bottom left) and apical view (bottom right); white, with brown dots and greyish near apex.

PLATE IV



IV. *Fissurella fascicularis* from Klein Curaçao ($\times 4$), apical view (top left); white, with orange-yellow to dark-brown streaks, somewhat reddish or violet near the top. *F. nimbose* from Aruba ($\times 1$), lateral view, with typical growth of *Chaetomorpha* (top right), and from La Guaira, Venezuela ($\times 1\frac{2}{3}$), lateral view (bottom left) and apical view (bottom right); with violet-brownish radial streaks. *F. rosea* from Klein Curaçao ($\times 2\frac{1}{4}$), lateral view (right centre) and apical view (left centre); slightly yellowish, with reddish-brown streaks which become light-brown near the apex.

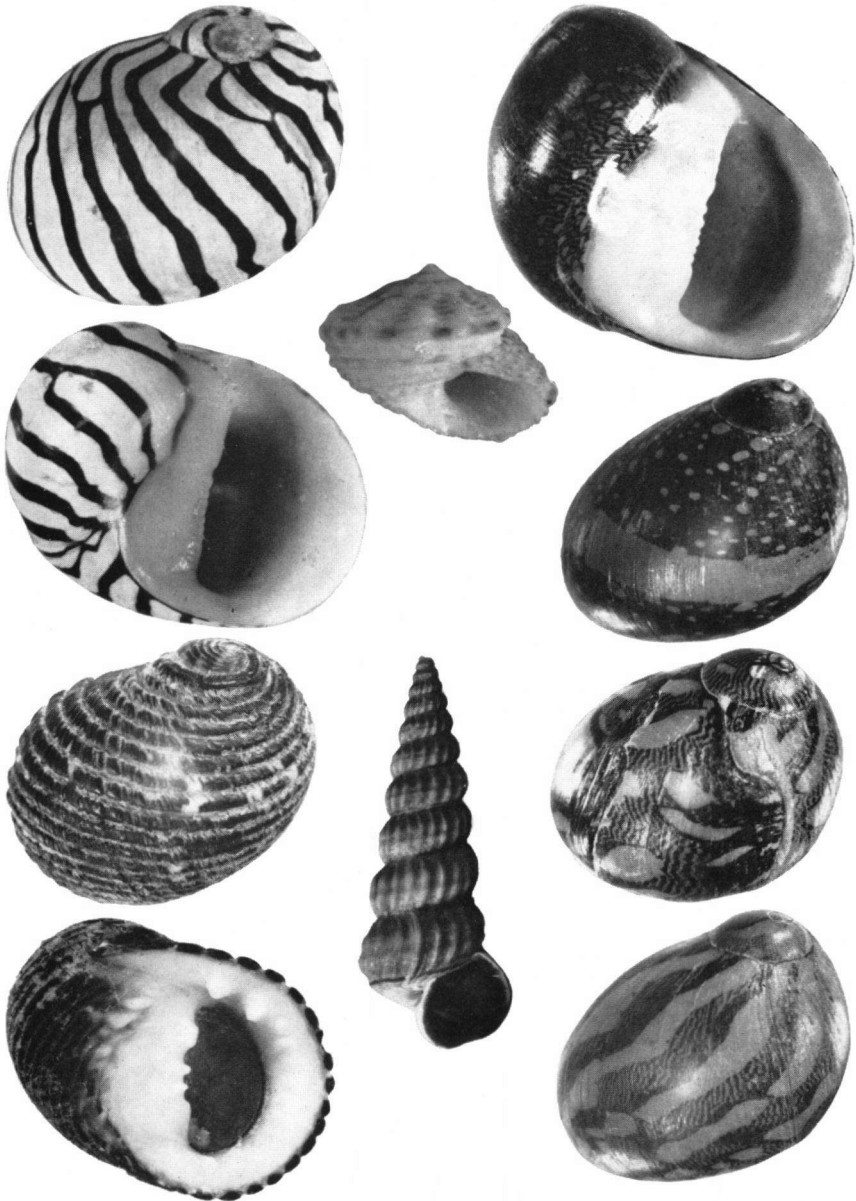


V. *Fissurella barbadensis* from Curaçao ($\times 2\frac{1}{2}$), lateral view (top right) and apical view (top left); with dark-brown dots and small violet patches.
F. angusta from Aruba ($\times 2\frac{1}{2}$), lateral view (right upper centre) and apical view (left upper centre); white.
F. nodosa from Curaçao ($\times 2\frac{1}{2}$), lateral view (right centre) and apical view (left lower centre); slightly reddish to greenish brown.
F. punctata from Fourche, near St. Barts ($\times 2\frac{1}{2}$), lateral view (bottom left) and apical view (bottom right) of alcohol specimen; dirty brown, somewhat reddish near apex.

PLATE VI

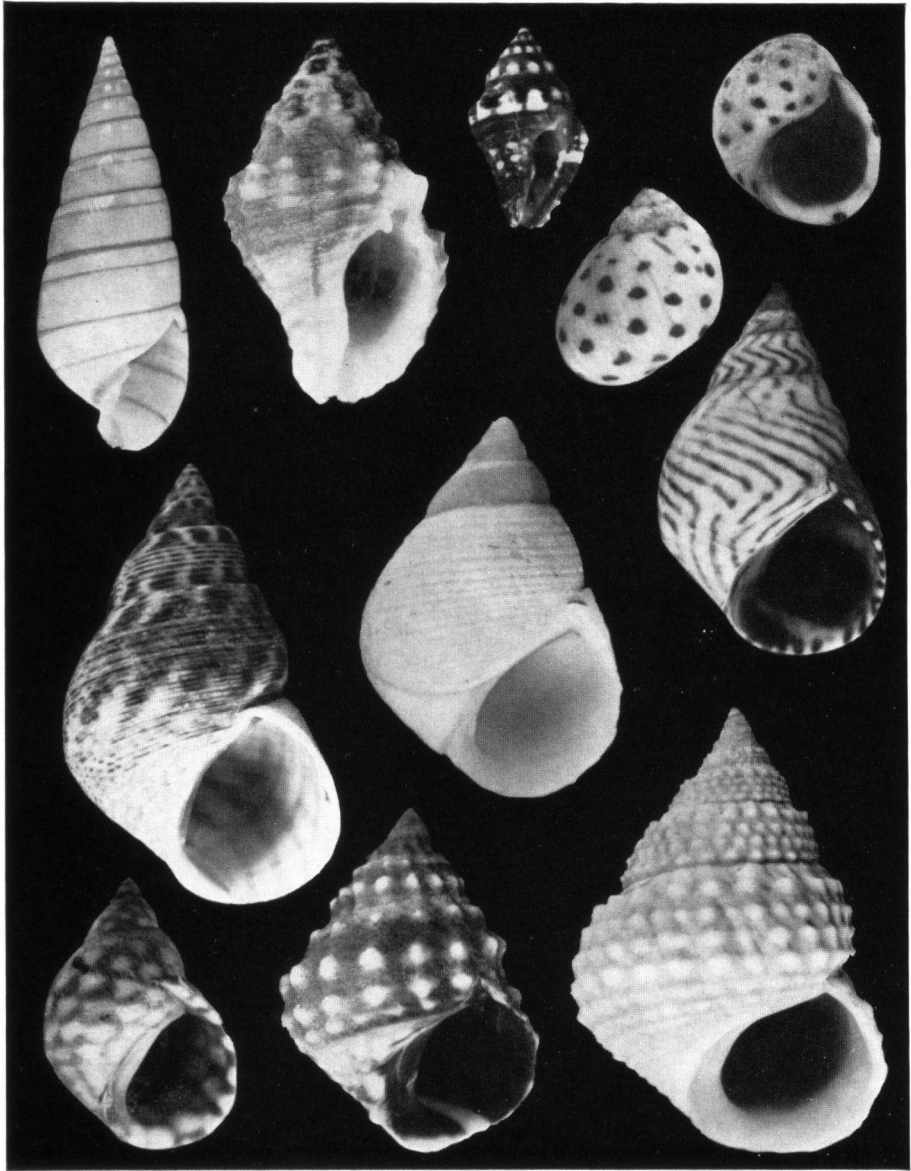


VI. *Nerita tessellata* from Curaçao ($\times 3\frac{1}{2}$), front view (top left) and rear view (top centre); yellowish-white specimen with black patches or bands.
N. versicolor from Bonaire ($\times 3\frac{1}{2}$), front view (bottom right) and rear views (top right and right centre); white with light-reddish and black patches.
N. peloronta from Bonaire ($\times 2\frac{1}{2}$), front view (bottom left) and rear view (left centre); dirty yellowish-white with violet black, the parietal shield with orange red.
Smaragdia viridis from Aruba ($\times 5\frac{1}{2}$), front view (lower centre) and rear view (upper centre); yellowish green with white spots.

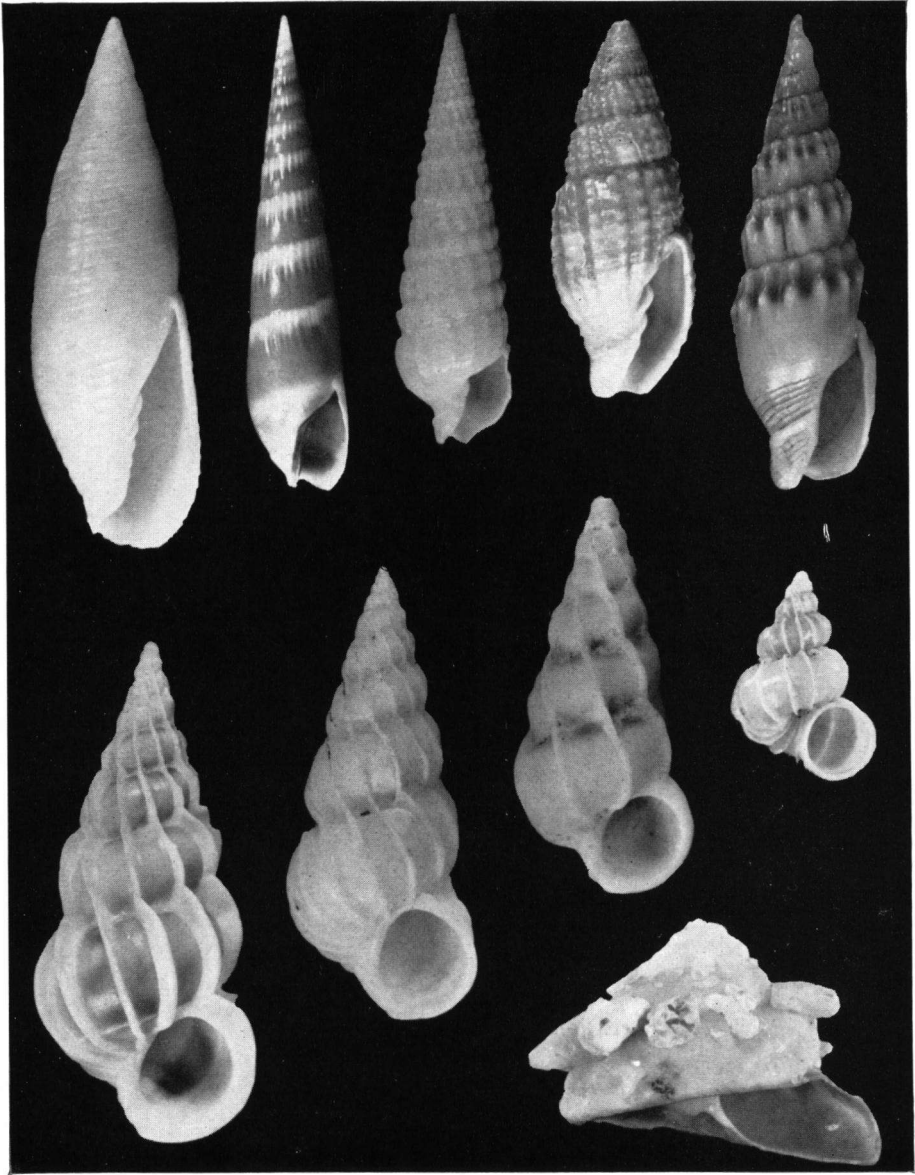


VII. *Puperita pupa* from Curaçao ($\times 5\frac{1}{2}$), front view (left upper centre) and rear view (top left); white and black.
Neritina virginea from Guanta, Venezuela ($\times 3\frac{1}{2}$), front view (top right) and rear views (right upper and lower centre and bottom right); yellowish-ochre to reddish-brown specimens, with a highly variable design in black.
Nerita fulgurans from Tobago ($\times 2\frac{1}{4}$), front view (bottom left) and rear view (left lower centre); black, with somewhat yellowish dirty-white between.
Modulus modululus from Curaçao ($\times 2\frac{1}{4}$), (upper centre); white, with little orange or brownish spots.
Cerithidia costata from Aruba ($\times 4\frac{1}{2}$), (lower centre); mouse grey.

PLATE VIII

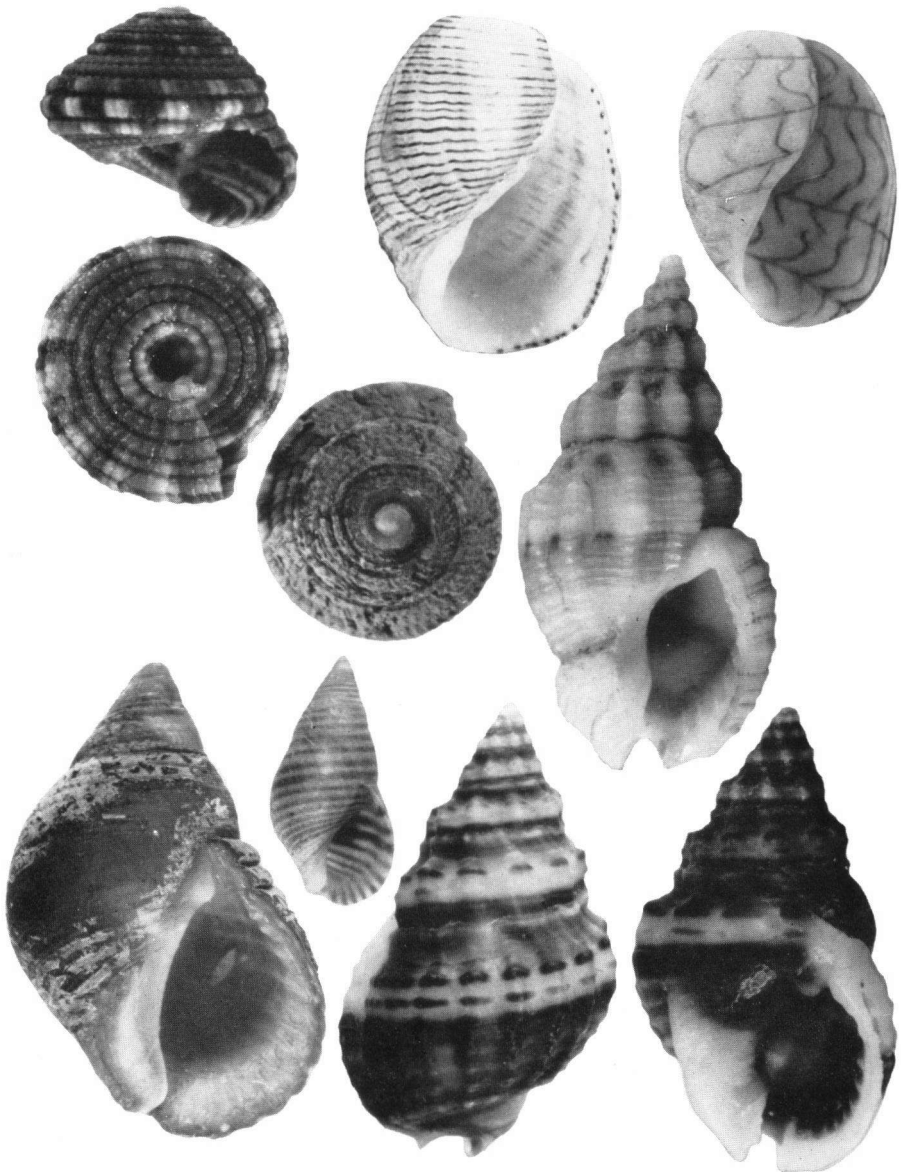


- VIII. *Pyramidella dolabrata* from Klein Bonaire ($\times 2\frac{1}{4}$), (top left); ivory white with yellowish-orange spiral lines.
Cantharus auritula from Curaçao ($\times 2\frac{1}{4}$), (top left centre); more or less light orange-brown, with brown patches.
Engina turbinella from Margarita ($\times 2\frac{1}{4}$), (top right centre); black with white.
Littorina mespillum from Bonaire ($\times 5\frac{1}{2}$), front view (top right) and rear view (right upper centre); white with black dots.
L. angulifera from Aruba ($\times 2\frac{1}{4}$), (left centre); yellowish brown, with dark brown
L. nebulosa from Bonaire ($\times 3\frac{1}{2}$), (centre); whitish.
L. ziczac from Curaçao ($\times 3\frac{1}{2}$), (right centre); white with brown lines.
L. meleagris from Curaçao ($\times 3\frac{1}{2}$), (bottom left); white with greyish brown.
Nodilittorina tuberculata from Curaçao ($\times 3$), (bottom centre); yellowish green and brown.
Tectarius muricatus from Curaçao ($\times 3$), (bottom right); whitish.



- IX. *Mitra barbadensis* from Curaçao ($\times 2\frac{1}{4}$), (top left); yellowish orange.
M. nodulosa from Curaçao ($\times 2\frac{1}{4}$), (top right centre); brownish orange.
Terebra cinerea from Margarita ($\times 1\frac{4}{5}$), (top left centre); banded with white, dark beige and beige, inside with orange.
T. dislocata from Bimini, Bahamas ($\times 1\frac{4}{5}$), (top centre); white.
Eurita aciculata from Margarita ($\times 3\frac{1}{2}$), (top right); light brown with small lead-coloured dots between nodules.
Epitonium lamellosum from Klein Bonaire ($\times 3$), (bottom left); white.
E. albidum from Klein Bonaire ($\times 4\frac{1}{2}$), (bottom centre); white.
E. unifasciatum from St. Martin ($\times 5\frac{1}{2}$), (centre); white, with brown dots under the suture.
E. krebsii from St. Martin ($\times 5\frac{1}{2}$), (right centre); white.
Xenophora conchyliphora from Aruba ($\times 2\frac{1}{4}$), (bottom right); orange white, ornamented with sand grains.

PLATE X



X. *Torinia cyclostoma* from Curaçao ($\times 5\frac{1}{2}$), front view (top left), basal view (left centre), and apical view (centre); greyish cream-coloured with light areas.

Micromelo undata from Curaçao ($\times 2\frac{1}{4}$), (top centre); light yellowish-brown with brown spirals.

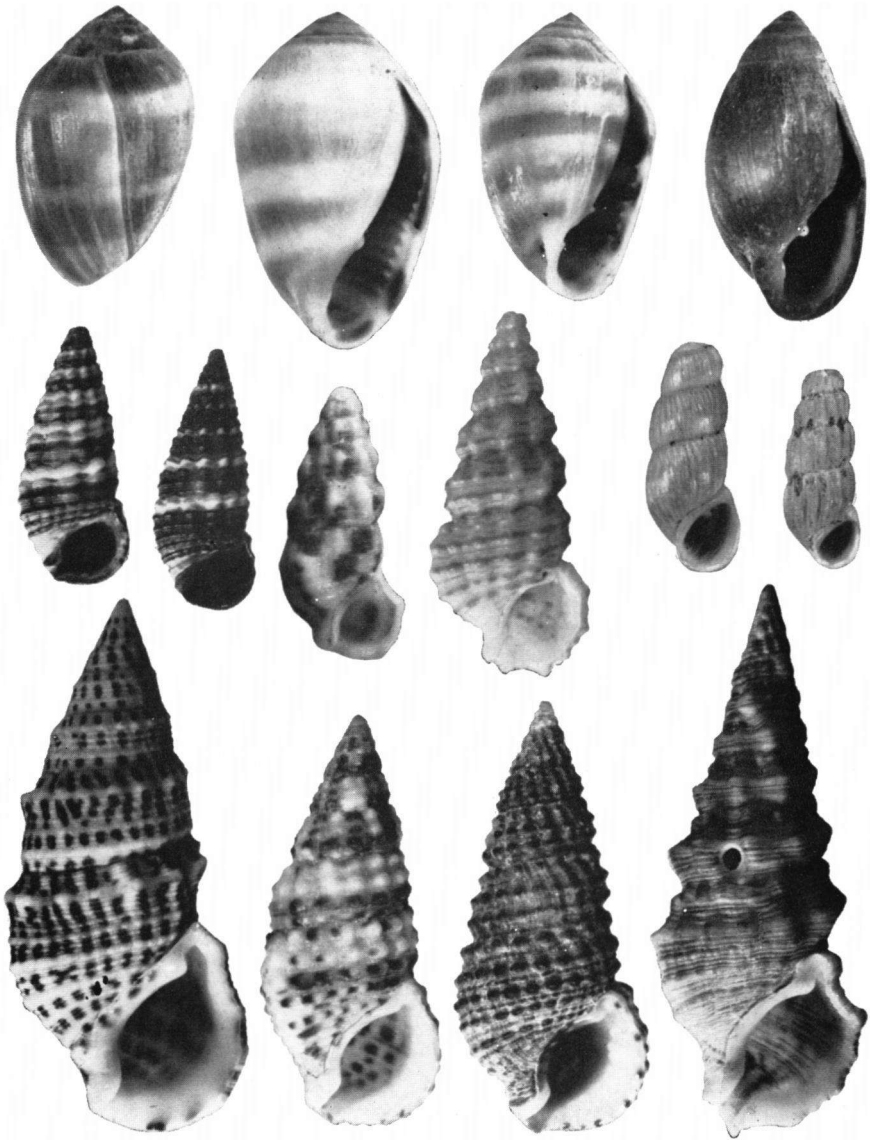
Hydatina vesicaria from Curaçao ($\times 3\frac{1}{2}$), (top right); white, with orange-brown design.

Nassarius ambiguus from Barbuda ($\times 4\frac{1}{2}$), (right centre); whitish, with dull reddish-brown.

N. vibex from Antigua ($\times 4\frac{1}{2}$), front view (bottom right) and rear view (bottom centre); white with greyish brown.

Planaxis nucleus from Bonaire ($\times 4\frac{1}{2}$), (bottom left); dark violet-brown.

P. lineatus from Bonaire ($\times 5\frac{1}{2}$), (lower centre); light grey, with brown spiral lines.



XI. *Melampus coffeus* from Curaçao ($\times 3\frac{1}{2}$), front view (top left centre) and rear view (top left); whitish, with broad brownish bands, dark brown near apex.

M. lineatus from Bimini, Bahamas ($\times 4\frac{1}{2}$), (top right centre); light brownish, with coffee-coloured bands.

Tralea pusilla from Bonaire ($\times 3\frac{1}{2}$), (top right); violet black.

Batillaria minima from St. Martin ($\times 4\frac{1}{2}$), (first and second from the left in central row); first one banded with white and brownish grey, second broadly banded with black, and narrowly with brown and white.

Cerithium eburneum from Curaçao ($\times 4\frac{1}{2}$), (third from the left in central row); white with reddish brown blotches.

C. muscarum from Florida ($\times 4\frac{1}{2}$), (centre); whitish with brownish-orange design.

C. litteratum from Bonaire ($\times 2\frac{1}{2}$), (bottom left); white with black.

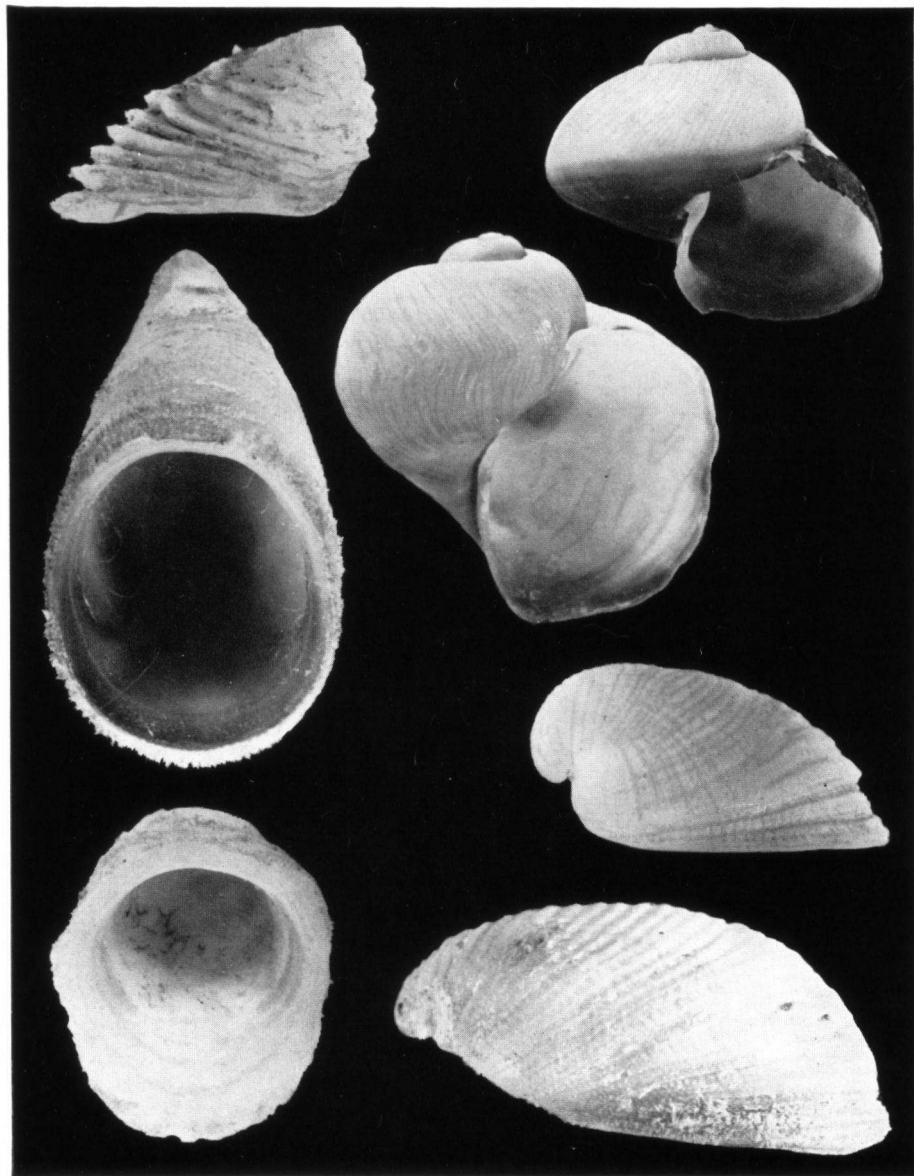
C. variable from Bonaire ($\times 4\frac{1}{2}$), (bottom centre); left specimen white with reddish brown, right one dark grey.

C. algicola from Aruba ($\times 2$), (bottom right); narrowly banded with orange and white.

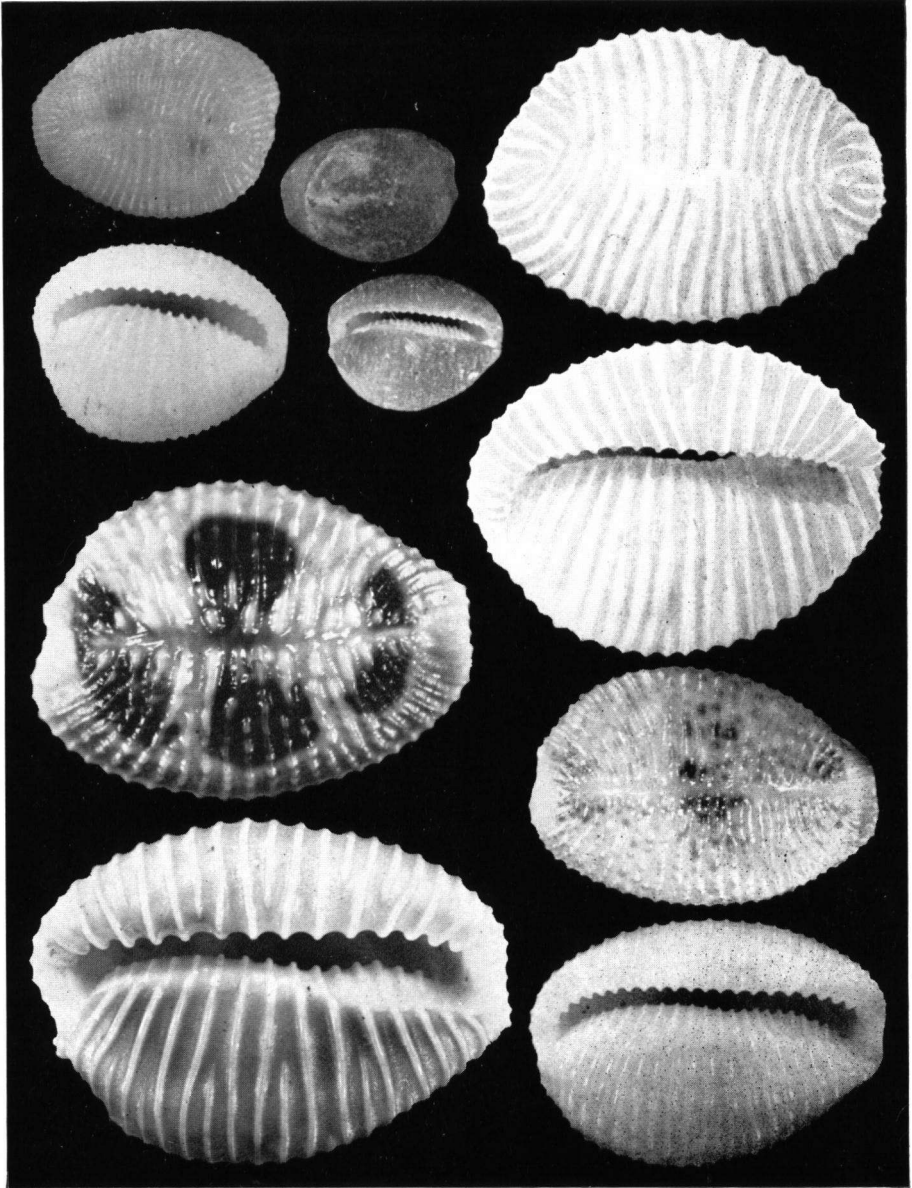
Truncatella pulchella from Curaçao ($\times 5\frac{1}{2}$), (second from the right in central row); light brownish.

T. bilabiata from Curaçao ($\times 5\frac{1}{2}$), (first from the right in central row); light beige-brown.

PLATE XII



XII. *Hipponix antiquatus* from Curaçao ($\times 4\frac{1}{2}$), lateral view (top left), and basal view (bottom left); white, somewhat brownish inside.
H. subrufus from Aruba ($\times 4\frac{1}{2}$), lateral view (bottom right) and basal view (left centre); light dirty-orange, orange red inside.
Capulus incurvatus from Aruba ($\times 4\frac{1}{2}$), (right centre); white.
Janthina janthina from Aruba ($\times 2\frac{1}{4}$), (top right); light and dark violet.
J. globosa from Aruba ($\times 2\frac{1}{4}$), (centre); violet.



XIII. *Trivia quadripunctata* from Aruba ($\times 5\frac{1}{2}$), apical view (top left), and basal view (left upper centre); light rose, with four darker-rose patches.

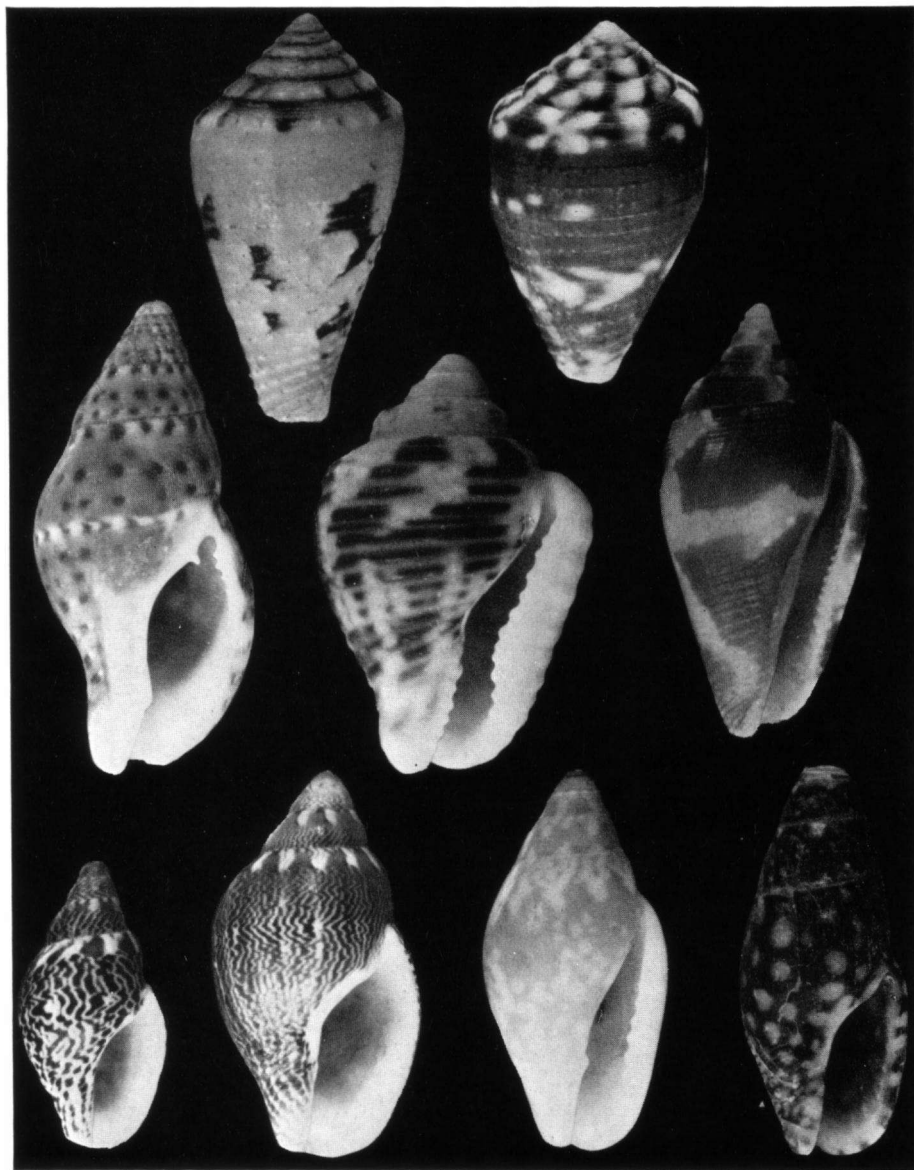
T. antillarum from Aruba ($\times 5\frac{1}{2}$), apical view (top centre), and basal view (lower centre); dirty violet.

T. nix from Aruba ($\times 5\frac{1}{2}$), apical view (top right) and basal view (right upper centre); white.

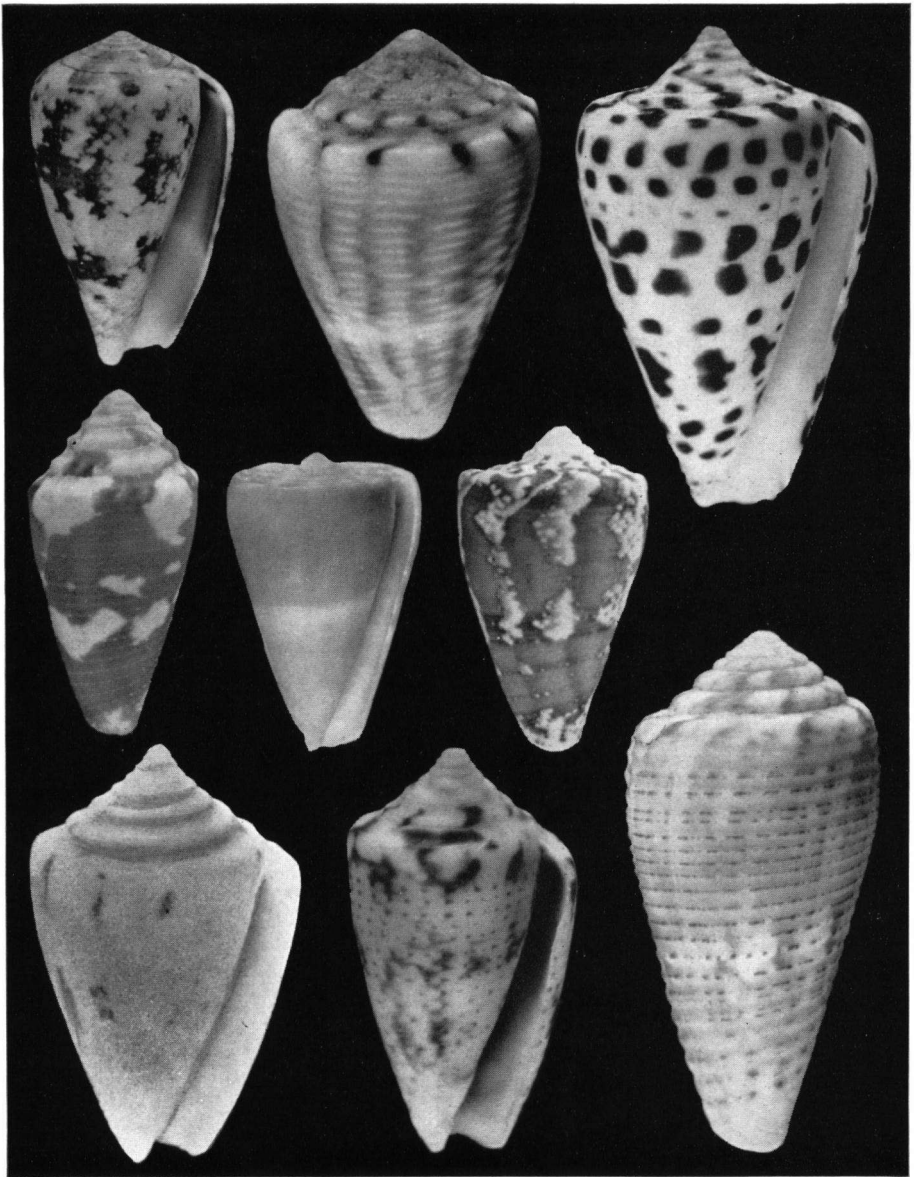
T. pediculus from Aruba ($\times 5\frac{1}{2}$), apical view (left lower centre) and basal view (bottom left); light rose with six dark-brown spots.

T. suffusa from Curaçao ($\times 5\frac{1}{2}$), apical view (right lower centre) and basal view (bottom right); light reddish-white, indistinctly stained with brown.

PLATE XIV

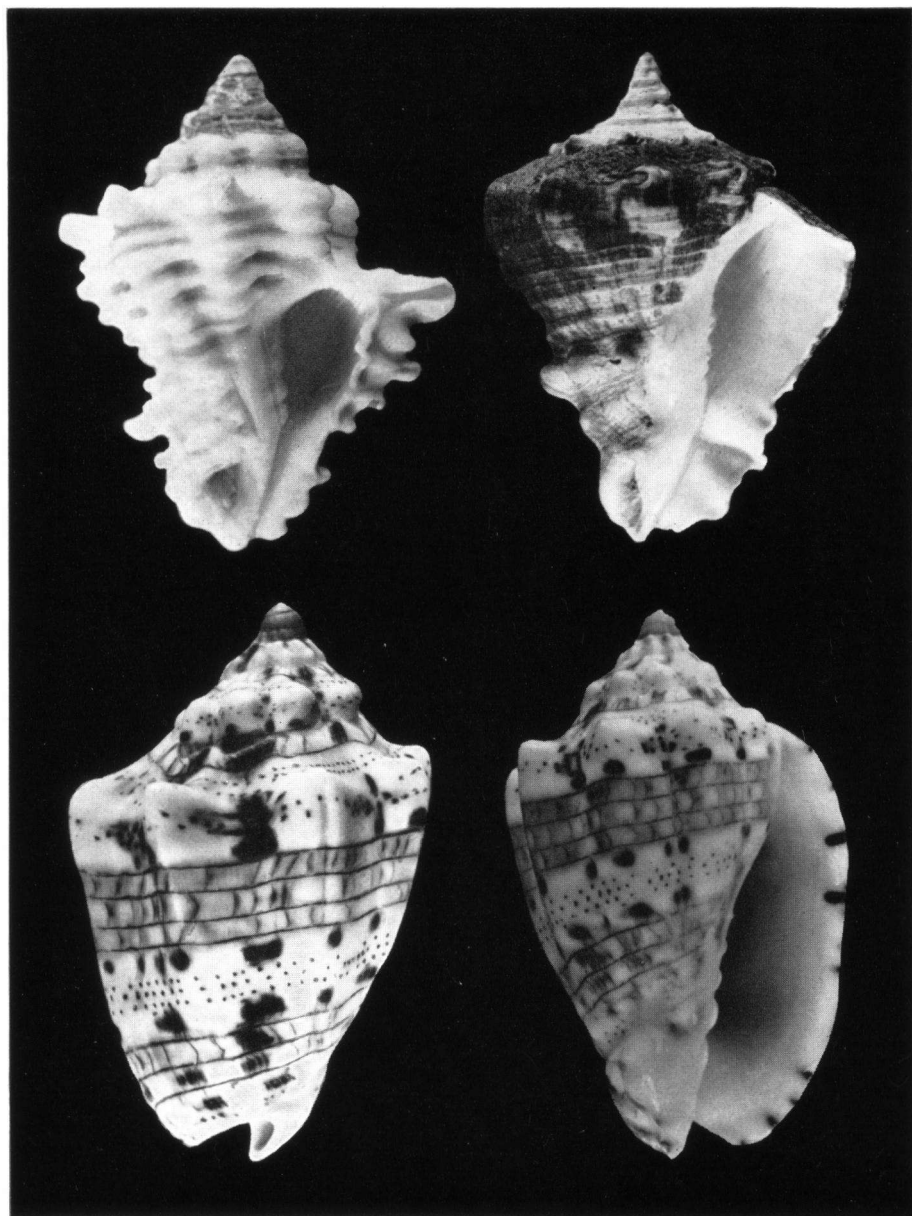


XIV. *Conus verrucosus* from Curaçao ($\times 3\frac{1}{2}$), (top left); greyish, with white and dark-brown.
C. perryae from Aruba ($\times 3\frac{1}{2}$), (top right); white and chocolate-brown.
Pisania pusio from Curaçao ($\times 2\frac{1}{2}$), (left centre); orange brown, with brown dots.
Columbella mercatoria from Aruba ($\times 3\frac{1}{2}$), (centre); reddish, with dark brown, very variable.
Pyrene ovulata from Curaçao ($\times 4\frac{1}{2}$), (right centre); whitish with orange brown.
Nitidella laevigata from Margarita ($\times 3\frac{1}{2}$), (bottom left two specimens); white, with black and brown design.
N. nitidula from Curaçao ($\times 4\frac{1}{2}$), (bottom right centre); white with orange and brown.
N. ocellata from Bonaire ($\times 4\frac{1}{2}$), (bottom right); dark brown, with white dots.



- XV. *Conus ranunculus* from Aruba ($\times 1$), (top left); white with brown.
C. citrinus from Curaçao ($\times 2\frac{1}{4}$), (top centre); white with somewhat bluish grey, brownish-yellow dots.
C. spurius from Aruba ($\times 2\frac{1}{4}$), (top right); white with dark-brown spots.
C. dominicanus from Aruba ($\times 3\frac{1}{2}$), (left centre); white with brilliant brown or orange brown.
C. daucus from Aruba ($\times 1$), (centre); orange with white.
C. regius from Aruba ($\times 1$), (right centre); white and brown.
C. jaspideus from Margarita ($\times 3\frac{1}{2}$), (bottom centre); greyish with white and brown.
C. jasp. pygmaeus from Aruba ($\times 3\frac{1}{2}$), (bottom left); white with small pale-yellow spots.
C. granulatus from Curaçao ($\times 2\frac{1}{4}$), (bottom right); reddish white, with little brown dots.

PLATE XVI



XVI. *Vasum capitellum* from Curaçao ($\times 1$), (top left); light brown, somewhat yellowish. *V. muricatum* from Aruba ($\times \frac{9}{10}$), (top right); moss green on white. *Voluta musica* from Aruba ($\times 1\frac{1}{4}$), (bottom specimens); ivory white with large black dots, "staves" orange brown with small, greyish "notes," rows of brown points.