

GEOLOGICAL SURVEY OF NEW JERSEY

HENRY B. KÜMMEL, State Geologist

A REPORT

ON THE

Cretaceous Paleontology
of New Jersey

BY

STUART WELLER

Based upon the Stratigraphic Studies

OF

GEORGE N. KNAPP

VOLUME IV OF THE PALEONTOLOGY SERIES

PLATES

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Plates and Explanations.

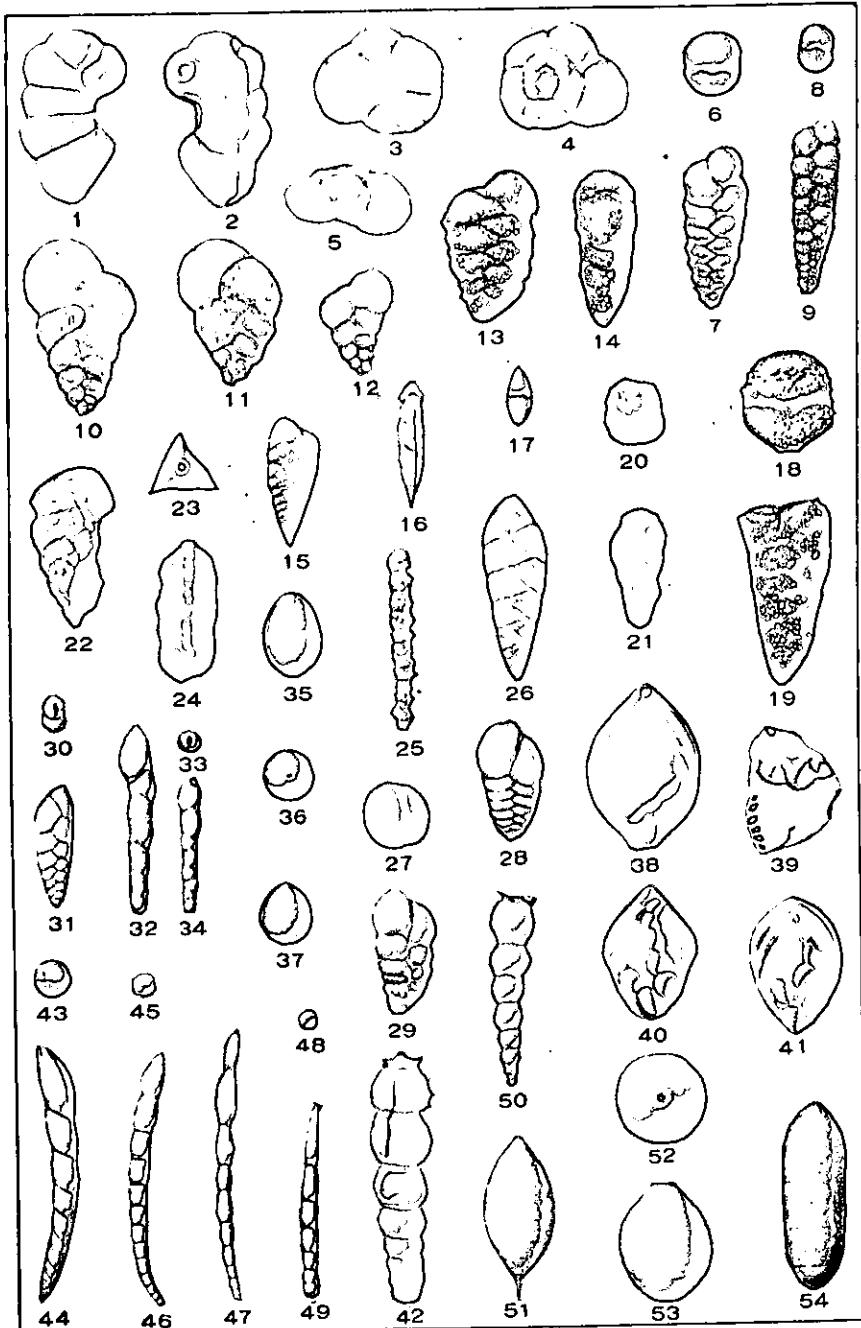
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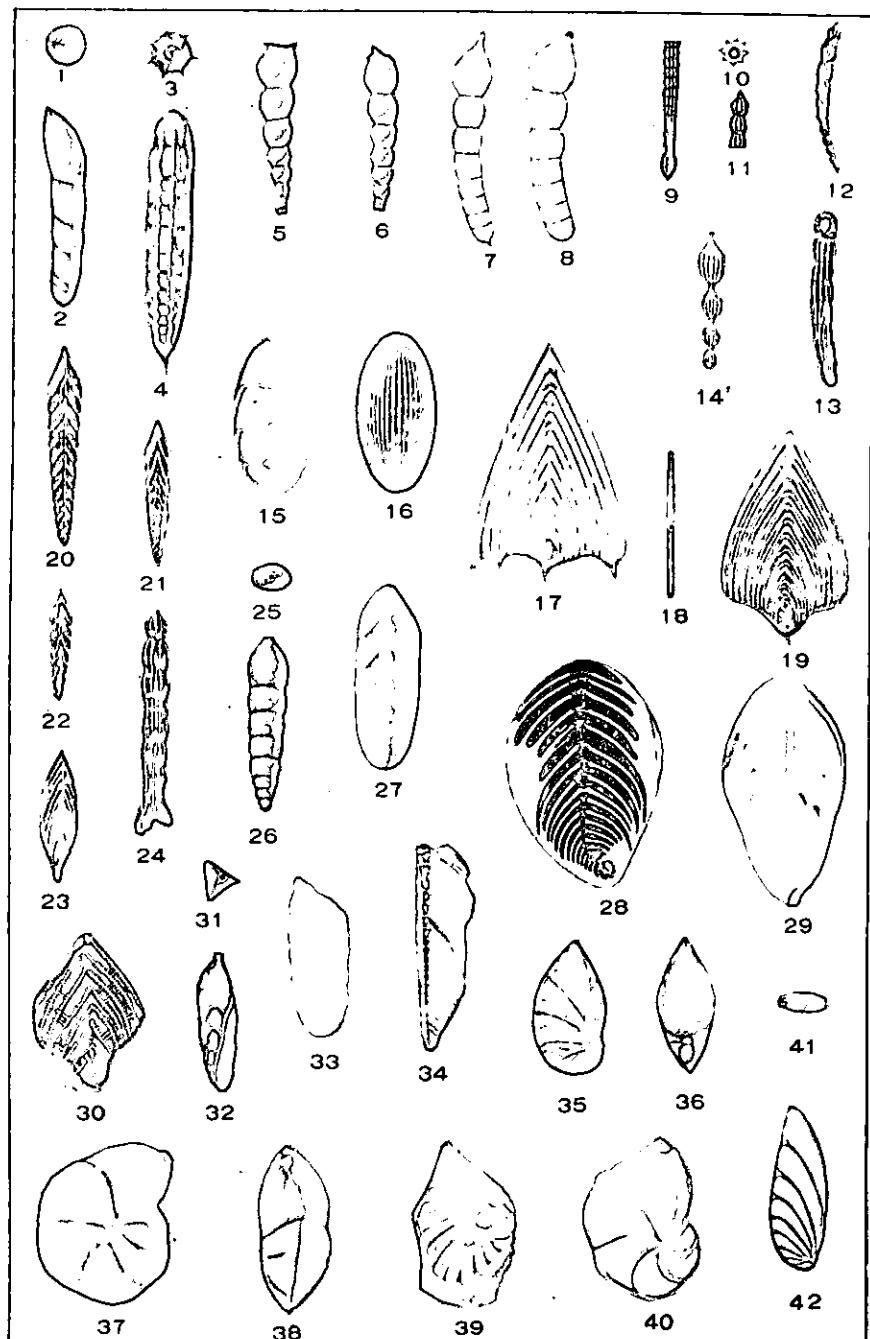
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PLATE II.



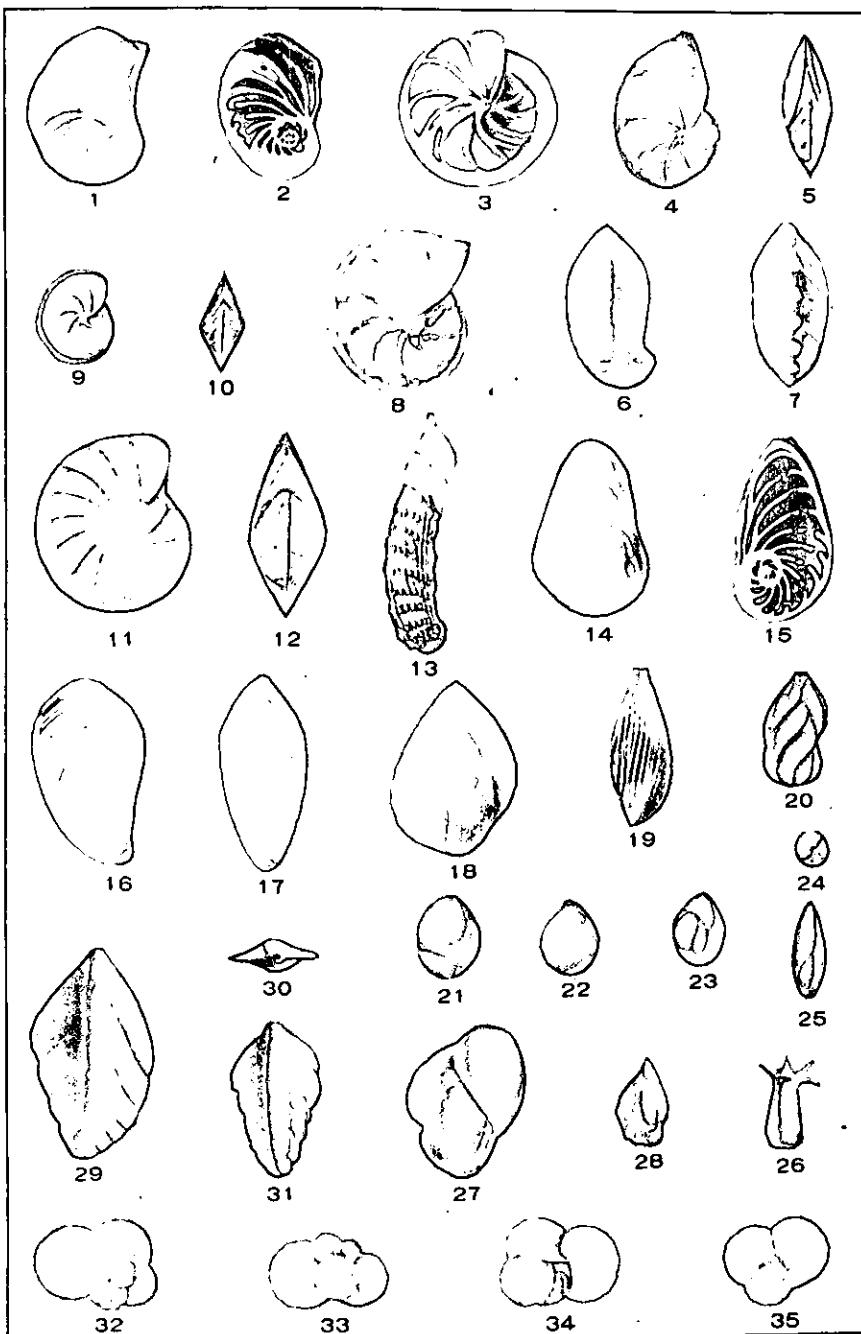
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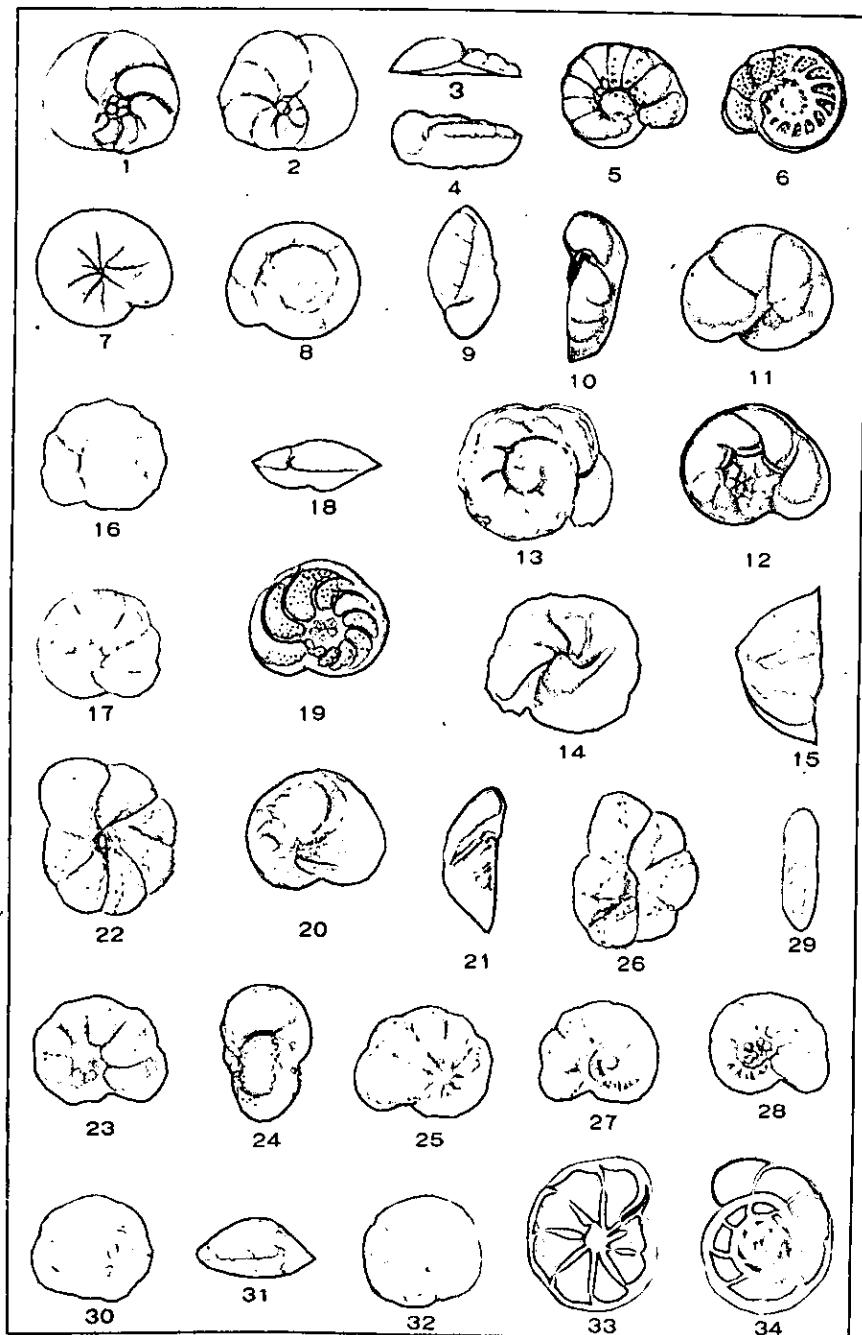


FORAMINIFERA.

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PLATE IV.



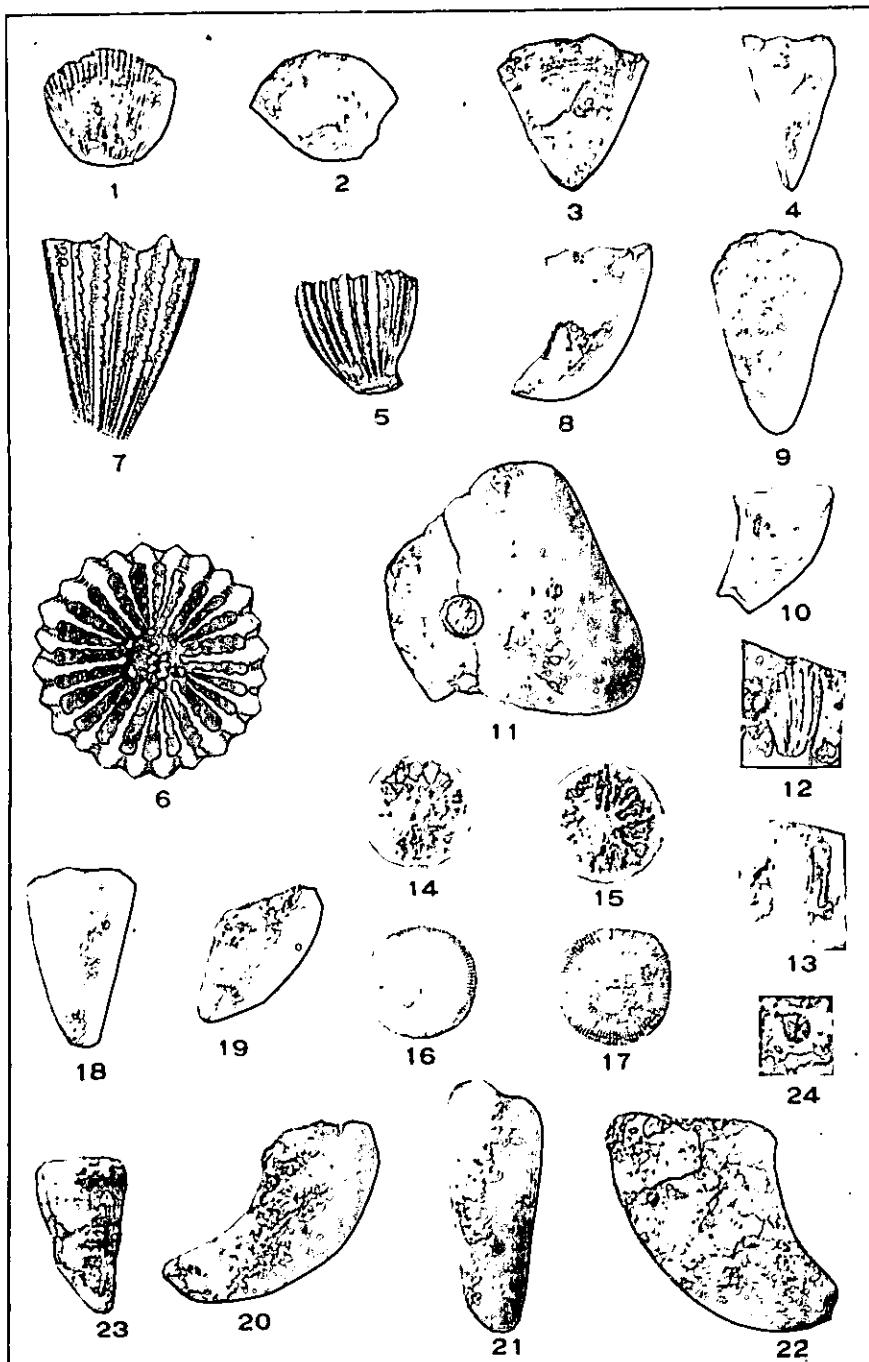
FORAMINIFERA.

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ANTHOZOA.

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Vincentown limesand; Vincentown, (154).

PENTACRINUS BRYANI Gabb, p. 276

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Vincentown limesand; Vincentown.

GONIASTER MAMMULATA Gabb, p. 277

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17. Surface of plate greatly magnified.

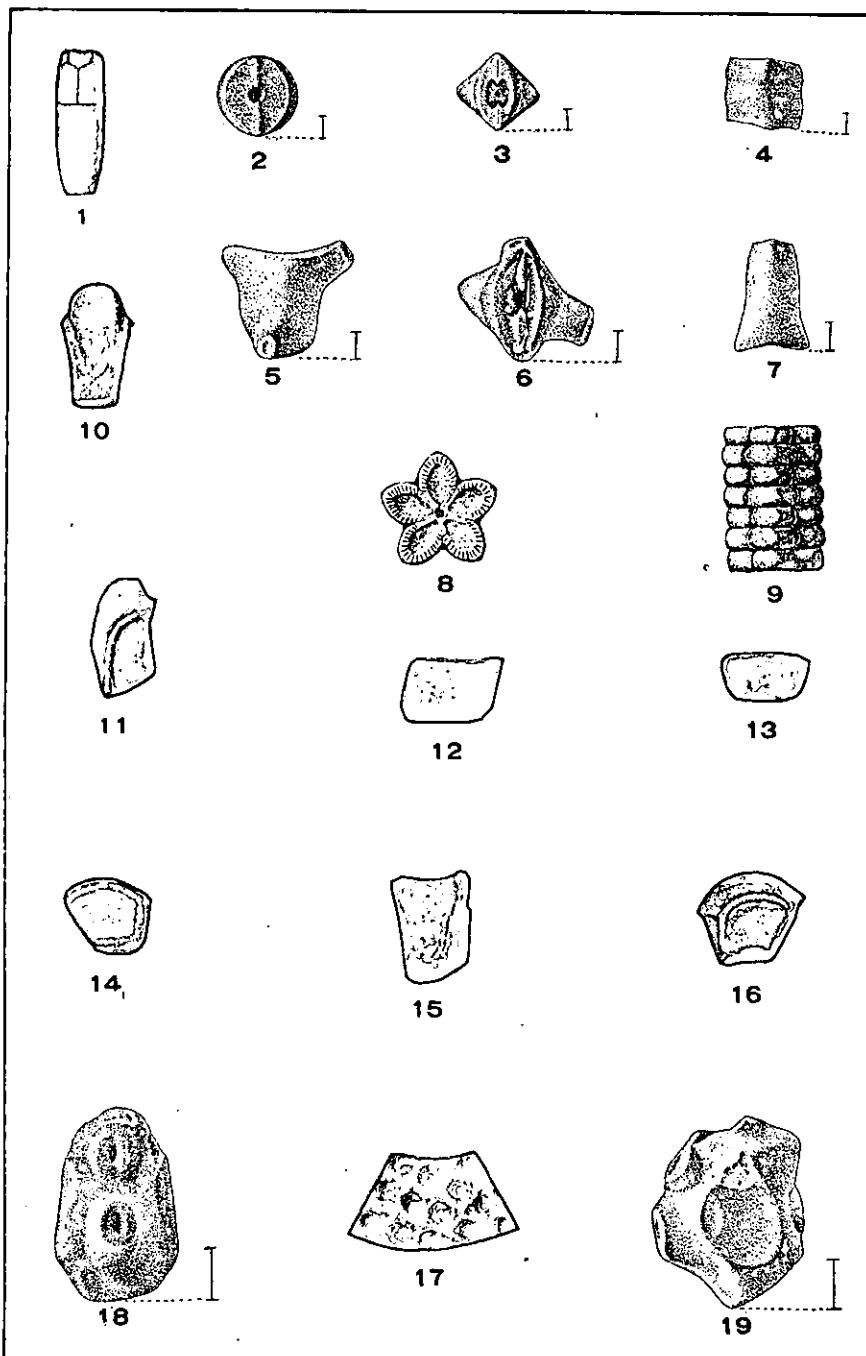
Vincentown limesand; Vincentown.

PENTACEROS ASPERULUS Clark n. sp., p. 278

18-19. Upper and side views of a plate, (enlarged).

Vincentown limesand; Vincentown,

PLATE VI.



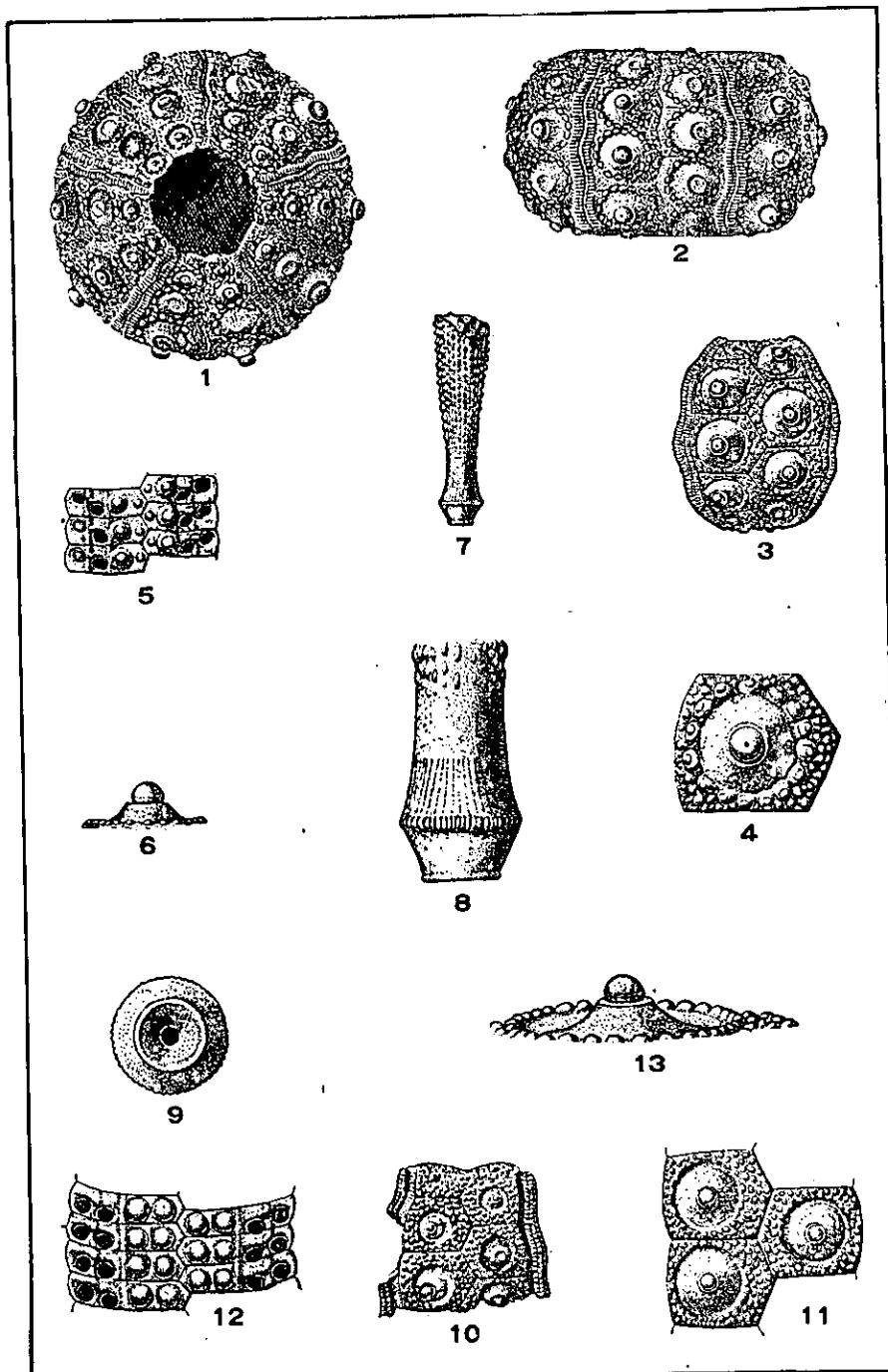
ECHINODERMATA.

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5. Ambulacral area, highly magnified.
6. Tubercl, enlarged.
7. Spine.
8. Base of spine much enlarged.
9. Articular surface of spine, much enlarged.
Vincentown limcsand; Vincentown.
- CIDARIS WALCOTTI Clark, p. 281
10. Portion of test, natural size.
11. Interambulacral plates, enlarged.
12. Ambulacral area, highly magnified.
13. Tubercl enlarged.
Vincentown limcsand; Vincentown.

PLATE VII.



ECHINODERMATA.

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(All figures after Clark.)

SELENIA TUMIDULA Clark, p. 282

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5. Single plate of interambulacral area, highly magnified.
6. Ambulacral area, highly magnified.
7. Apical disk, enlarged.
8. Genital plate, highly magnified.
9. Tuberclle much enlarged.
10. Oral opening enlarged.

Vincentown limcsand; Vincentown.

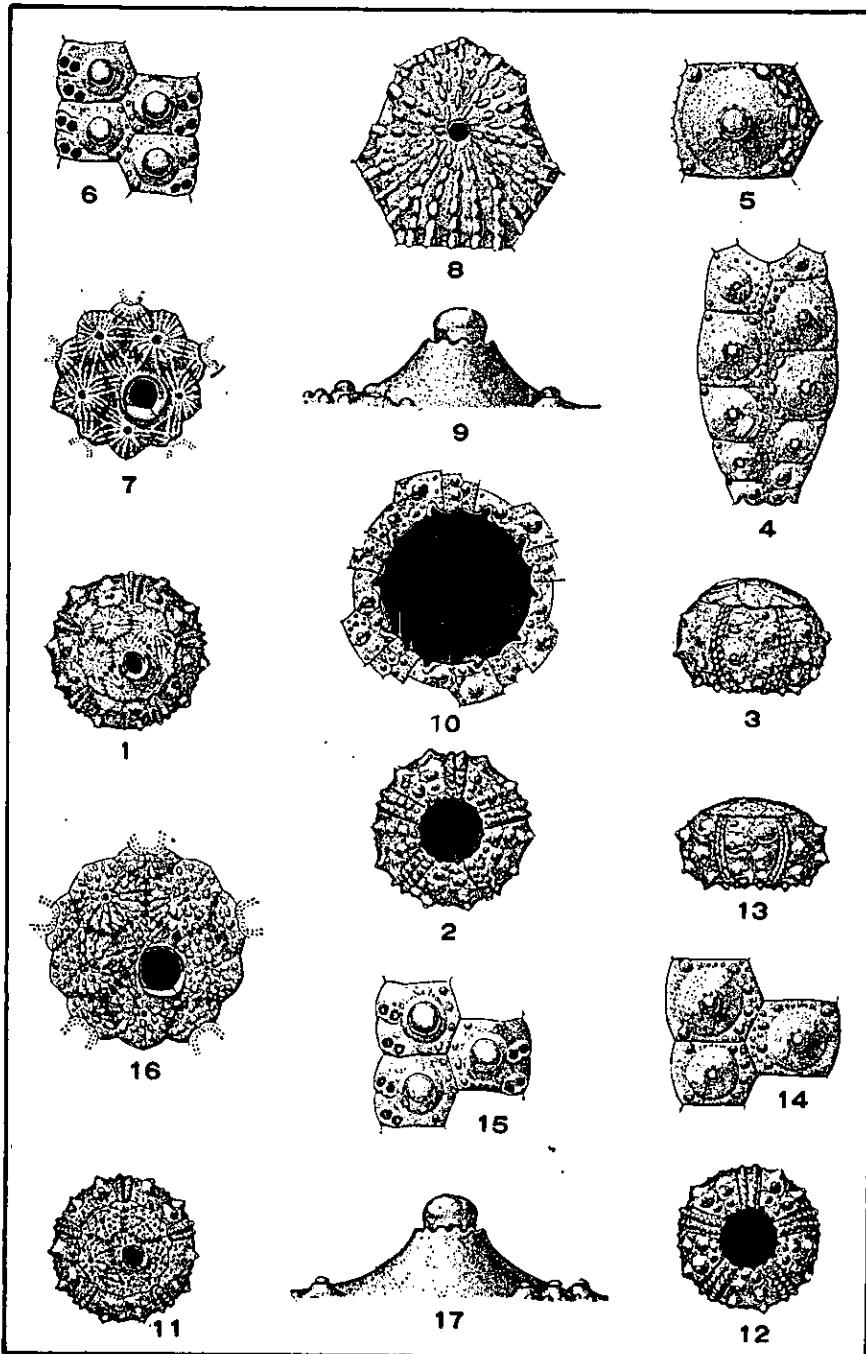
SELENIA BELLULA Clark, p. 283

- 11-13. Dorsal, ventral and lateral views of a complete individual, (x2).

14. Three interambulacral plates, highly magnified.
15. Three ambulacral plates, highly magnified.
16. Apical disk, enlarged.
17. Tuberclle, highly magnified.

Vincentown limcsand; Vincentown.

PLATE VIII.



ECHINODERMATA.

EXPLANATION OF PLATE IX.

(All figures after Clark.)

PSEUDODIADEMA DIATRETUM (Morton), p. 285

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3. Two interambulacral plates, (x4).

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6. Tubercl, much enlarged.

Vincentown limesand; Vincentown.

PSEUDODIADEMA SPECIOSUM Clark, p. 286

7-8. Dorsal and lateral views of a complete individual.

9. Upper portion of an interambulacral area, enlarged.

10. Three interambulacral plates, highly magnified.

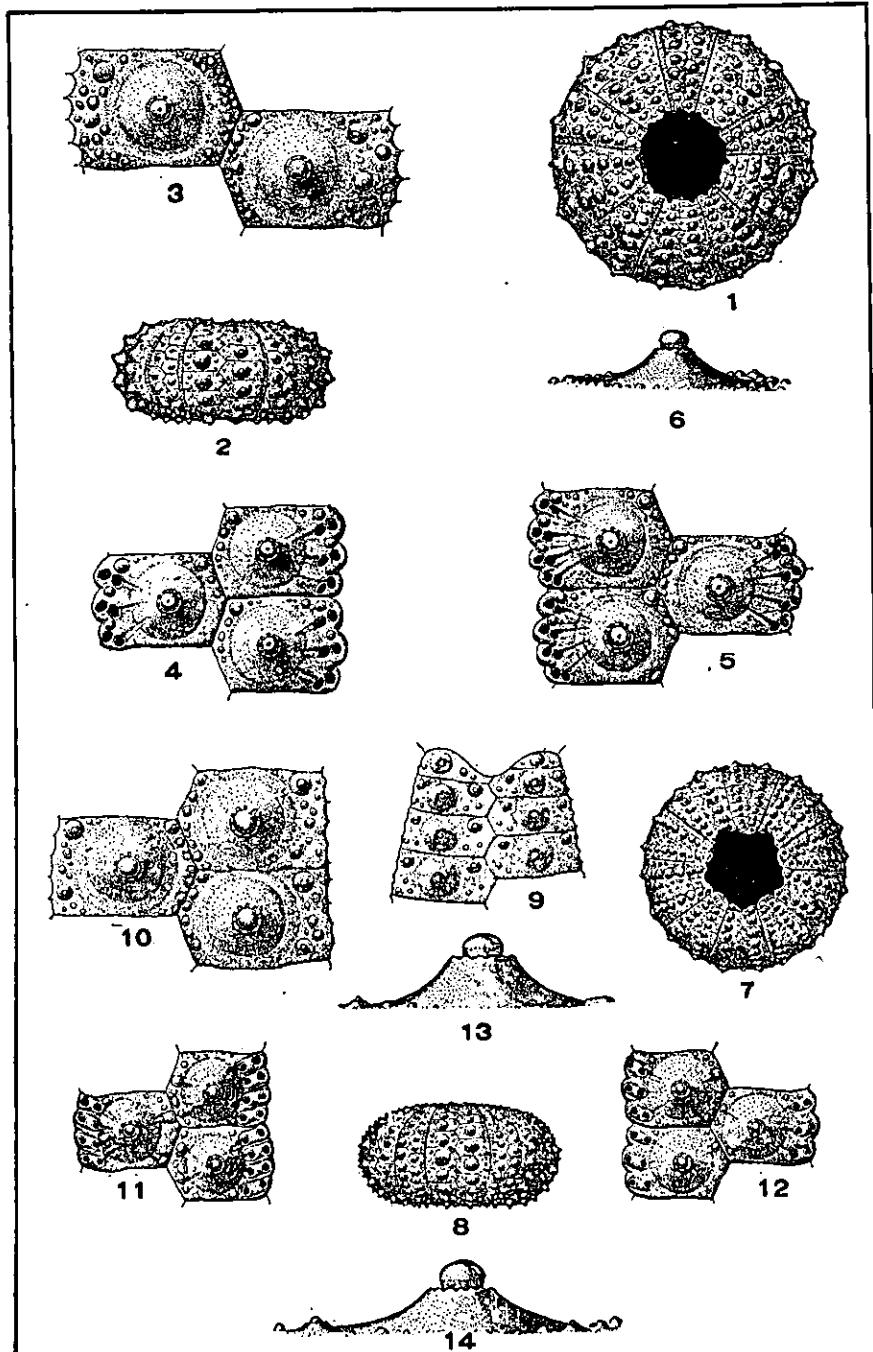
11-12. Portions of the ambulacral area, highly magnified.

13. Tubercl of ambulacral area.

14. Tubercl of interambulacral area.

Vincentown limesand; Vincentown.

PLATE IX.



ECHINODERMATA.

EXPLANATION OF PLATE X.

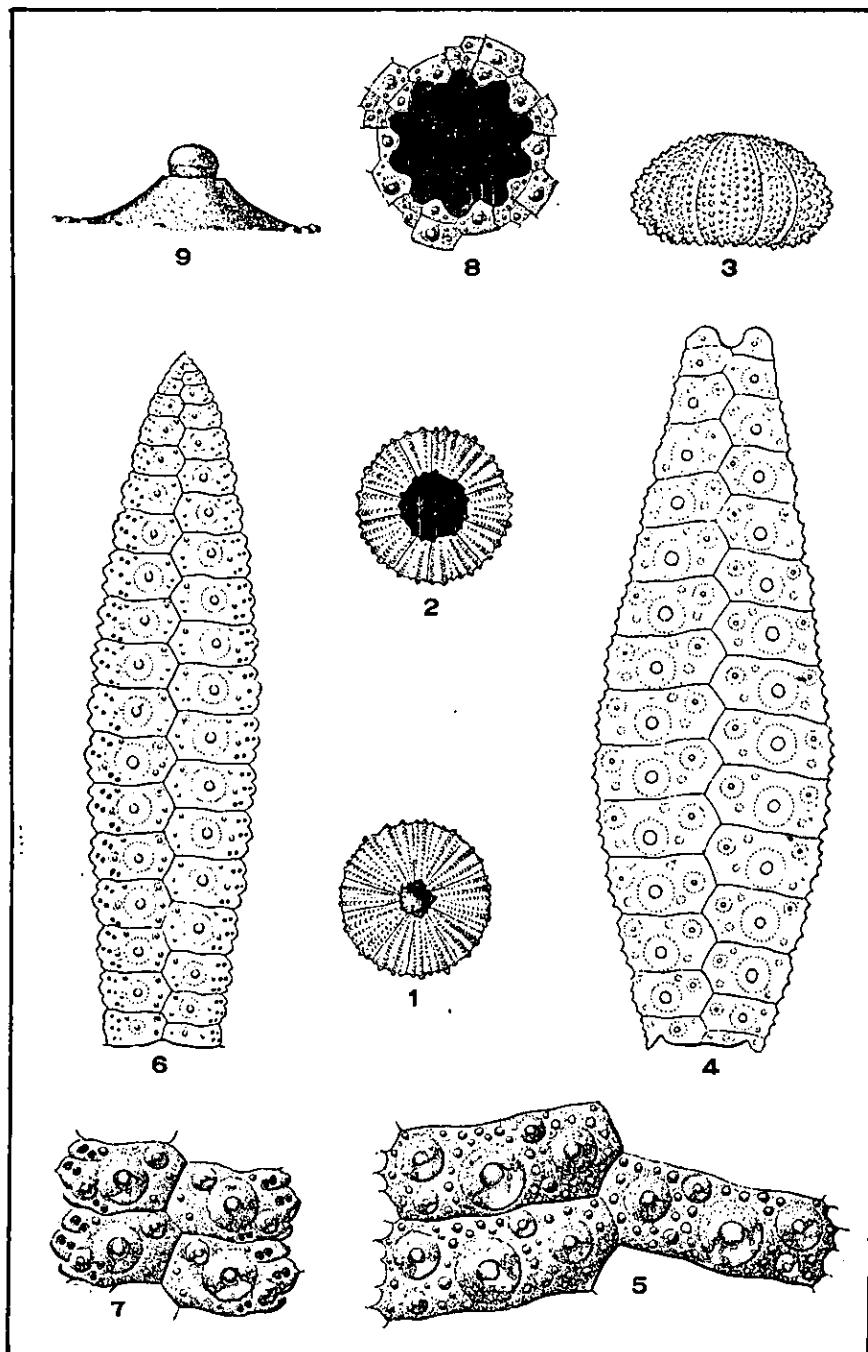
(All figures after Clark.)

PSAMMECHINUS CINGULATUS Clark, p. 288

- 1-3. Dorsal, ventral and lateral views of a complete individual.
4. Interambulacral area, enlarged.
5. Three interambulacral plates highly magnified.
6. Ambulacral area, enlarged.
7. Four ambulacral plates, highly magnified.
8. Oral opening, enlarged.
9. Tubercl, enlarged.

Vincentown limesand.

PLATE X.



ECHINODERMATA.

EXPLANATION OF PLATE XI.

(All figures after Clark.)

TREMATOPYGUS CRUCIFERUS (Morton), p. 289

- 1-4. Dorsal, ventral, lateral and posterior views of a complete individual.
5. Lower portion of the petaloid region of the right postero-lateral ambulacrum.
6. Much enlarged view of several of the same ambulacral plates.
7. Apical disk, enlarged.
- 8-9. Two views of a tubercle, from above and from the side.
Vincentown limesand; Timber Creek.

CATOPYGUS OVIFORMIS Conrad, p. 291

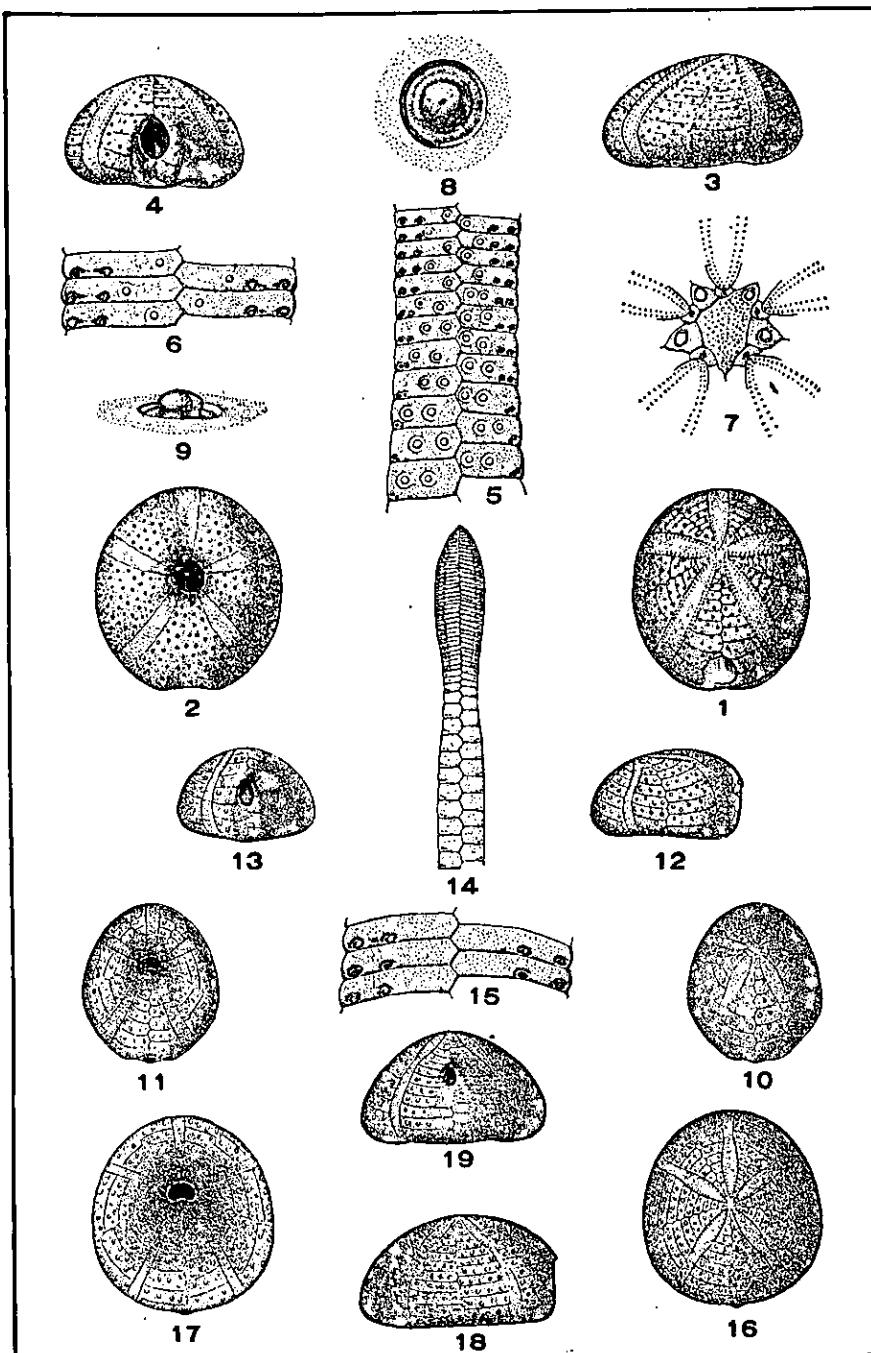
- 10-13. Dorsal, ventral, lateral and posterior views of a complete individual.
14. Right postero-lateral ambulacrum, enlarged.
15. Several ambulacral plates, highly magnified.
Vincentown limesand; Timber Creek.

CATOPYGUS PUSILLUS Clark, p. 292

- 16-19. Dorsal, ventral, lateral and posterior views of a complete individual.

Merchantville clay-marl.

PLATE XI.

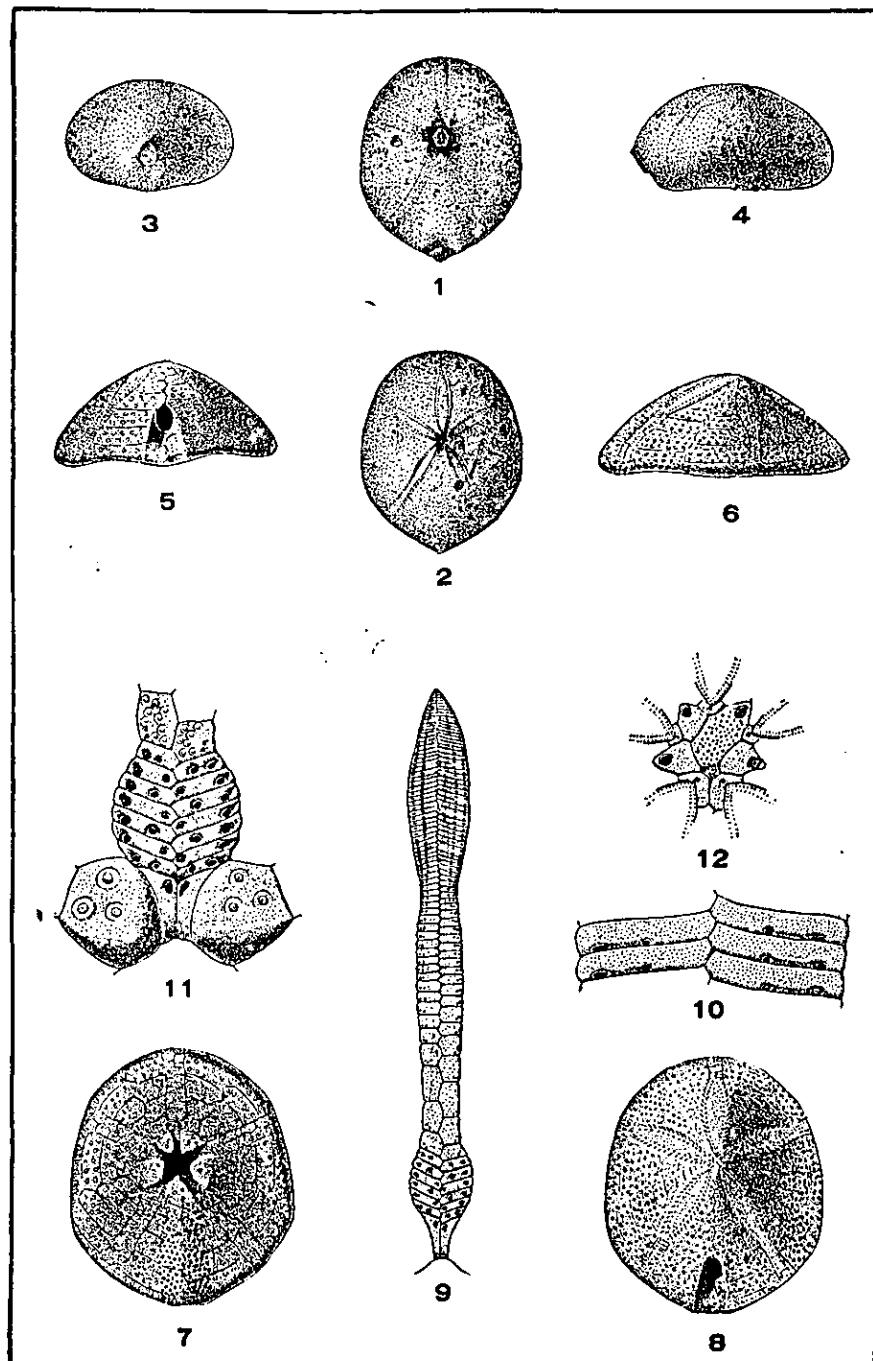


ECHINODERMATA.

EXPLANATION OF PLATE XII.

- CATOPYGUS WILLIAMSI Clark n. sp., p. 292
(Illustrations contributed by Dr. W. B. Clark.)
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- CASSIDULUS AEQUOREUS Morton, p. 293
(All figures after Clark.)
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9. Anterior ambulacrum enlarged.
10. Several ambulacral plates from the petaloid region, much enlarged.
11. Several ambulacral plates from the oral region.
12. Apical disk, much enlarged.
Vincentown limesand.

PLATE XII.



ECHINODERMATA.

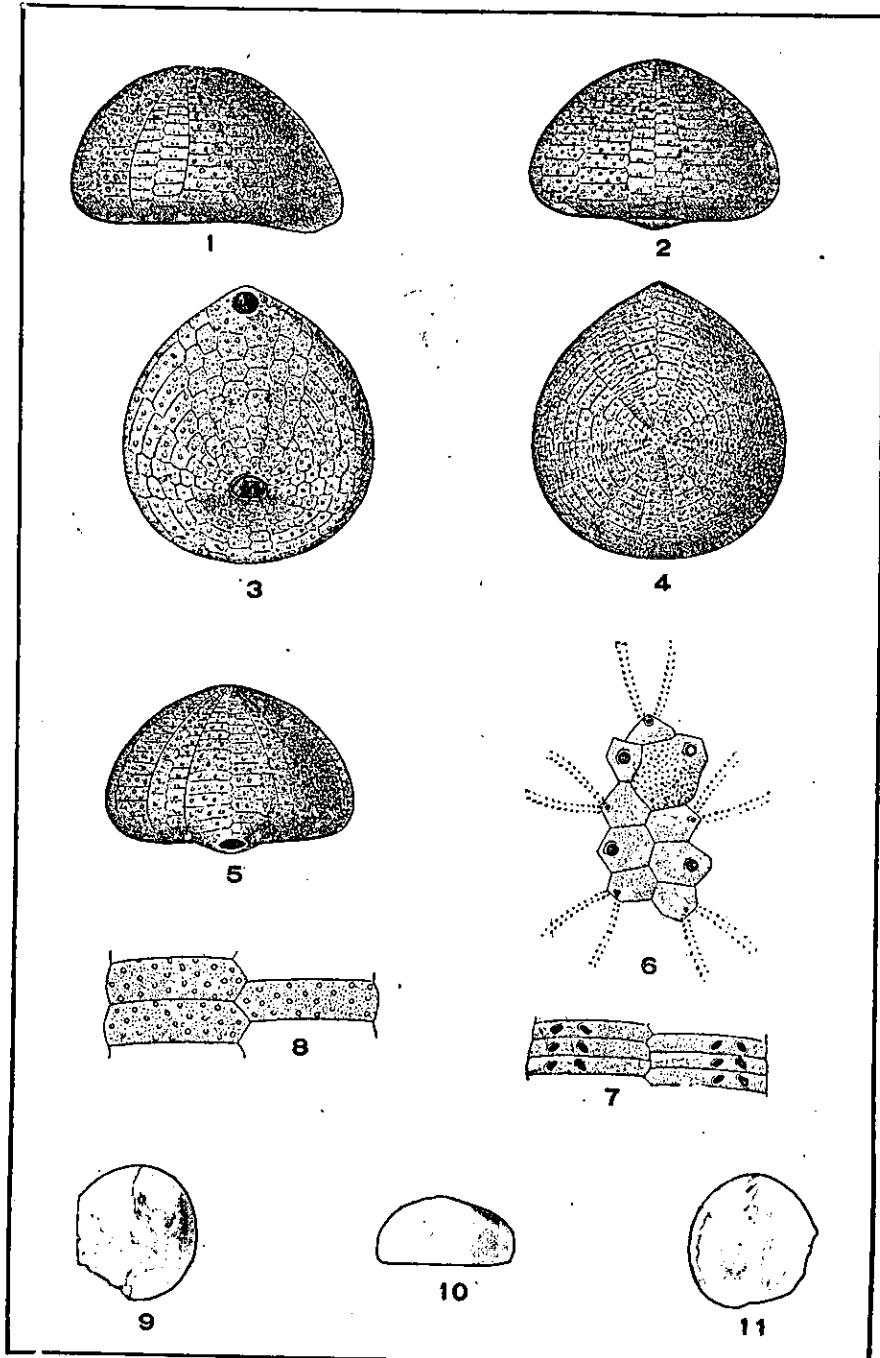
3* PAL

EXPLANATION OF PLATE XIII.

(All figures after Clark.)

- ANANCHYTES OVALIS Clark, p. 295
1-5. Lateral, anterior, ventral, dorsal and posterior views of a complete individual.
6. Apical disk, enlarged.
7. Several ambulacral plates, much enlarged.
8. Several interambulacral plates, much enlarged.
Vincentown limesand; Vincentown.
- CARDIASTER SMOCKI Clark n. sp., p. 298
(Illustrations contributed by Dr. W. B. Clark.)
9-11. Dorsal, lateral and ventral views, of the type specimen.
Merchantville clay-marl.

PLATE XIII.



ECHINODERMATA.

EXPLANATION OF PLATE XIV.

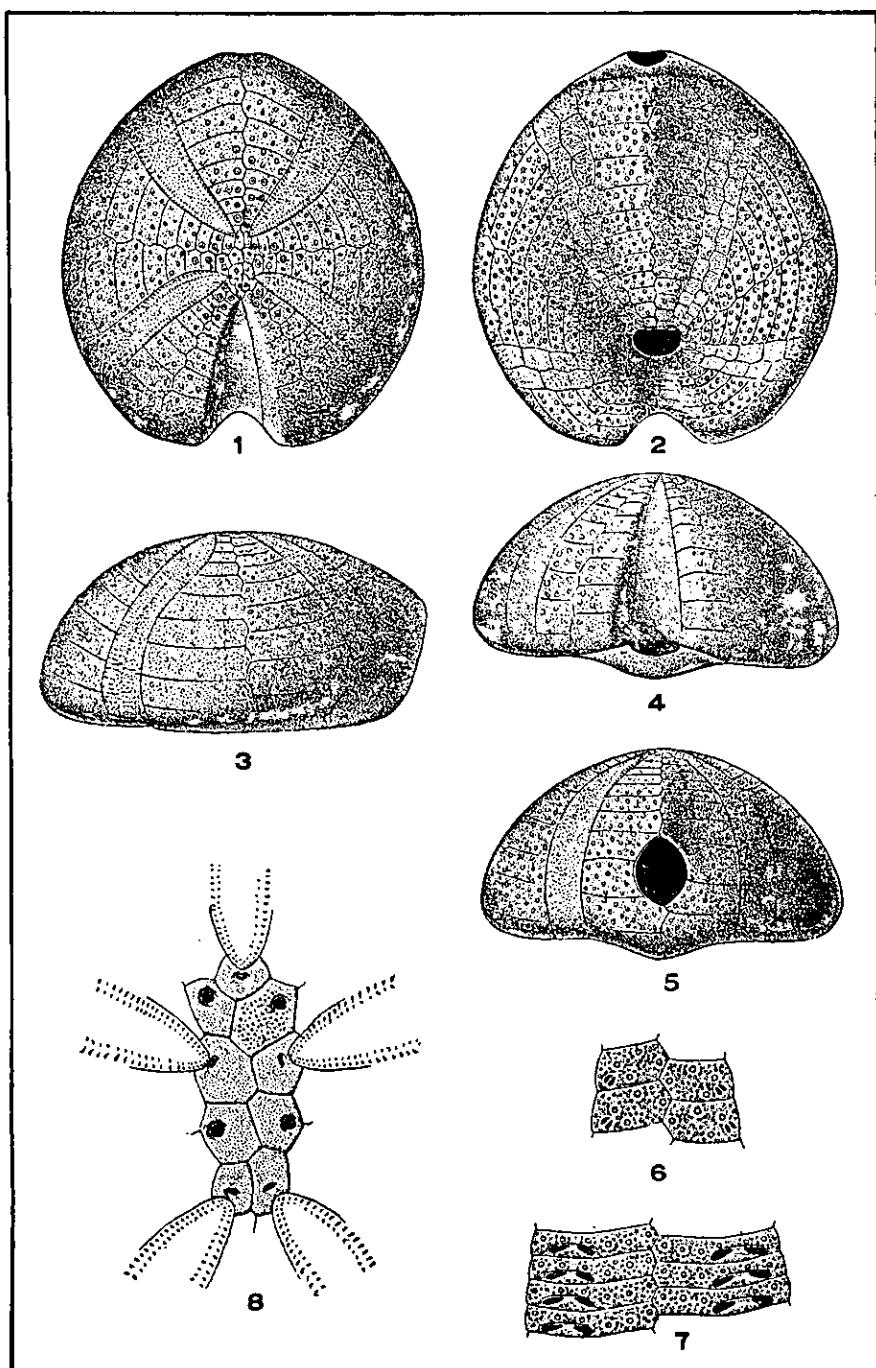
(All figures after Clark.)

CARDIASTER CINCTUS (Morton), p. 296

- 1-5. Dorsal, ventral, lateral, anterior and posterior views of a complete individual.
6. Basal portion of an ambulacral area, much enlarged.
7. Central portion of the petaloid region of an ambulacral area, much enlarged.
8. Apical disk, enlarged.

Vincentown limesand.

PLATE XIV.



ECHINODERMATA.

EXPLANATION OF PLATE XV.

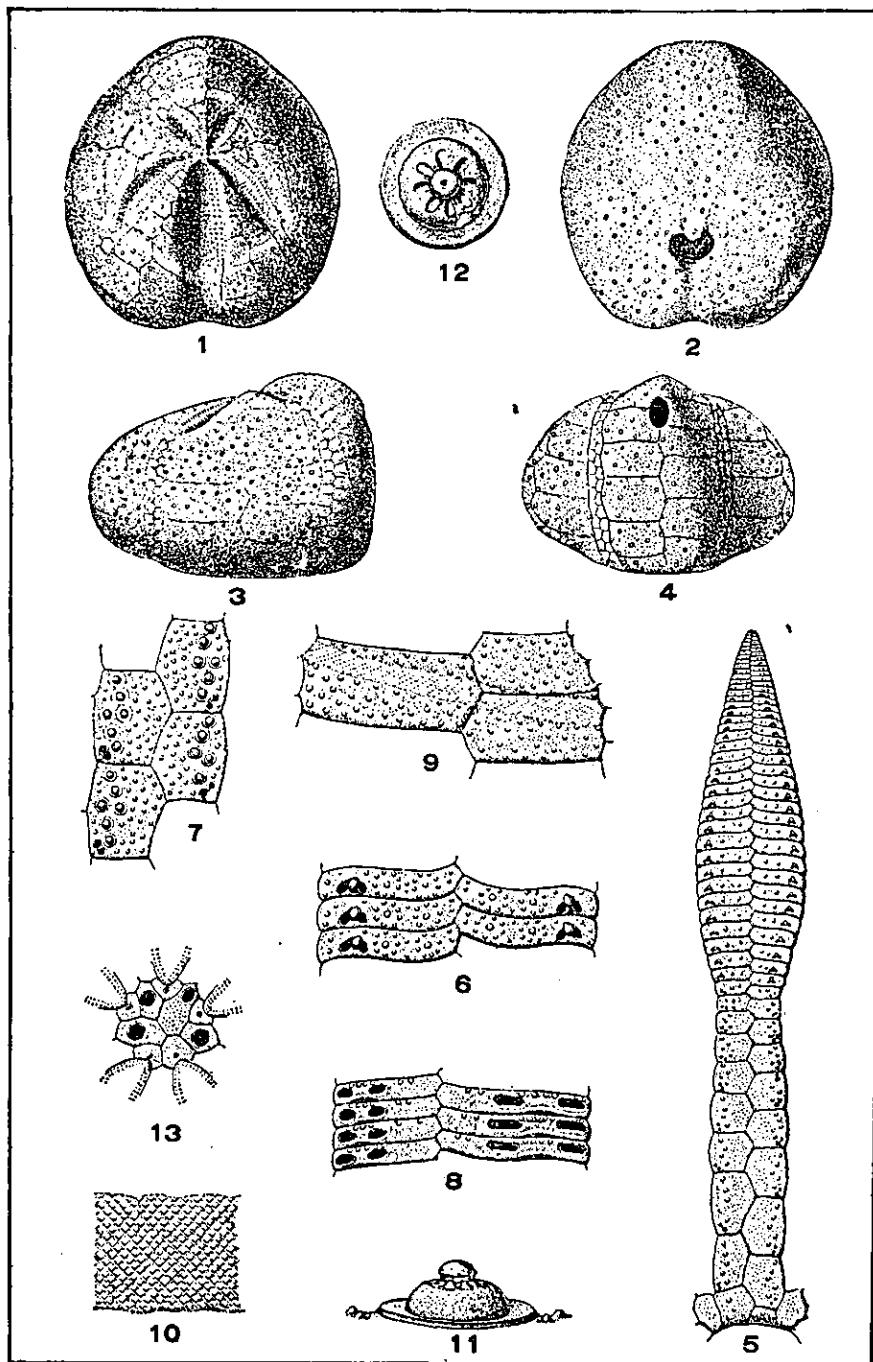
(All figures after Clark.)

HEMIASTER PARASTATUS (Morton), p. 298

- 1-4. Dorsal, ventral, lateral and posterior views of a complete individual.
5. Anterior ambulacrum, enlarged.
- 6-7. Portions of the petaloid and basal regions of the anterior ambulacrum, much enlarged.
8. Several plates from the petaloid region of the right antero-lateral ambulacrum, much enlarged.
9. Three interambulacral plates with fasiole, enlarged.
10. Portion of fasciole, highly magnified.
- 11-12. Two views of a tubercle, from the side and from above.
13. Apical disk, enlarged.

Vincentown limesand.

PLATE XV.



ECHINODERMATA.

EXPLANATION OF PLATE XVI.

(All figures after Clark.)

HEMIASTER STELLA (Morton), p. 300

1-4. Dorsal, ventral, lateral and posterior views of a complete individual.

Vincentown limesand.

HEMIASTER UNGULA (Morton), p. 301

5-8. Dorsal, ventral, lateral and posterior views of a complete individual.

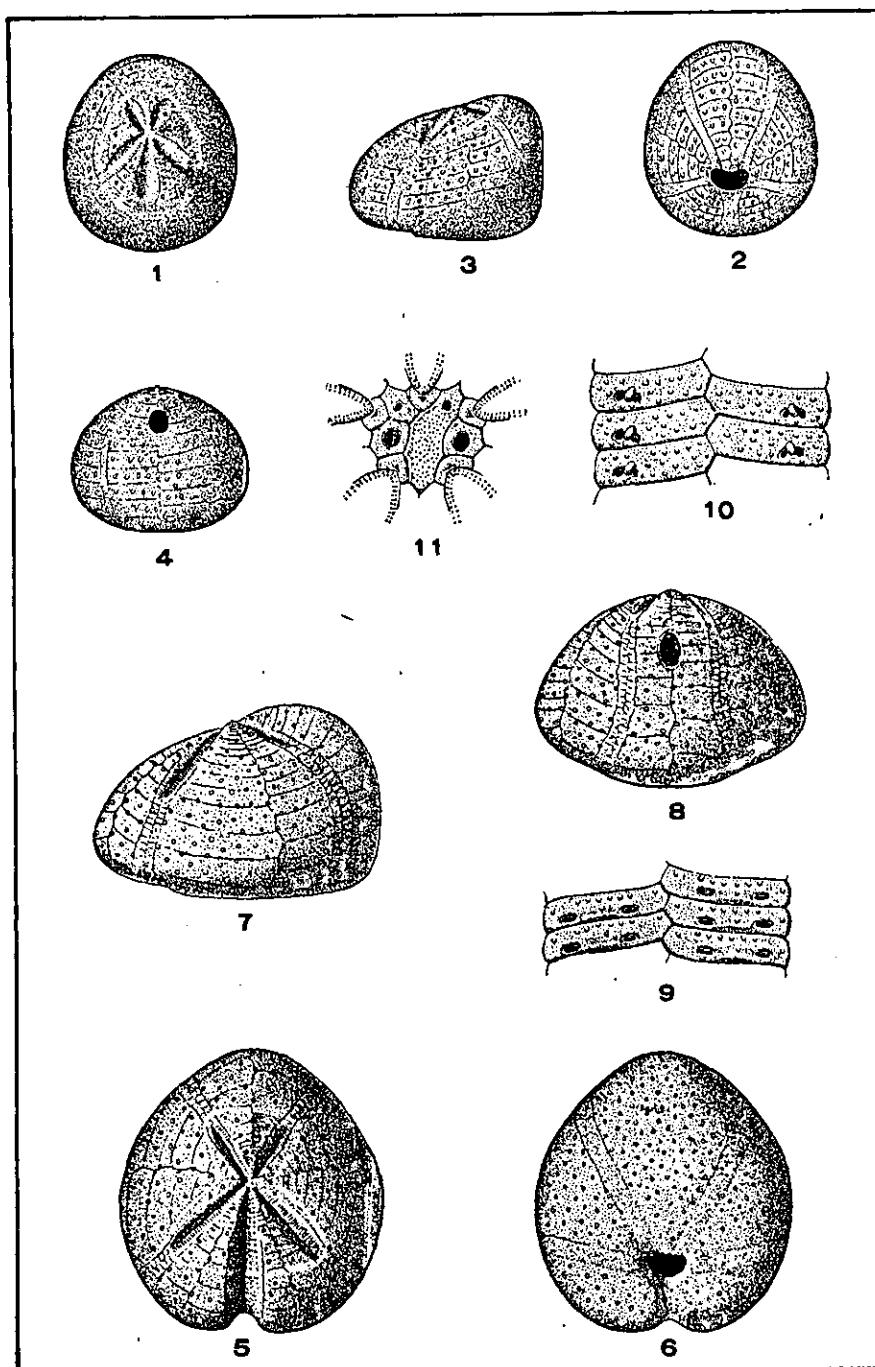
9. Portion of the petaloid region of the right antero-lateral ambulacrum, much enlarged.

10. Portion of the petaloid region of the anterior ambulacrum, much enlarged.

11. Apical disk, enlarged.

Vincentown limesand.

PLATE XVI.



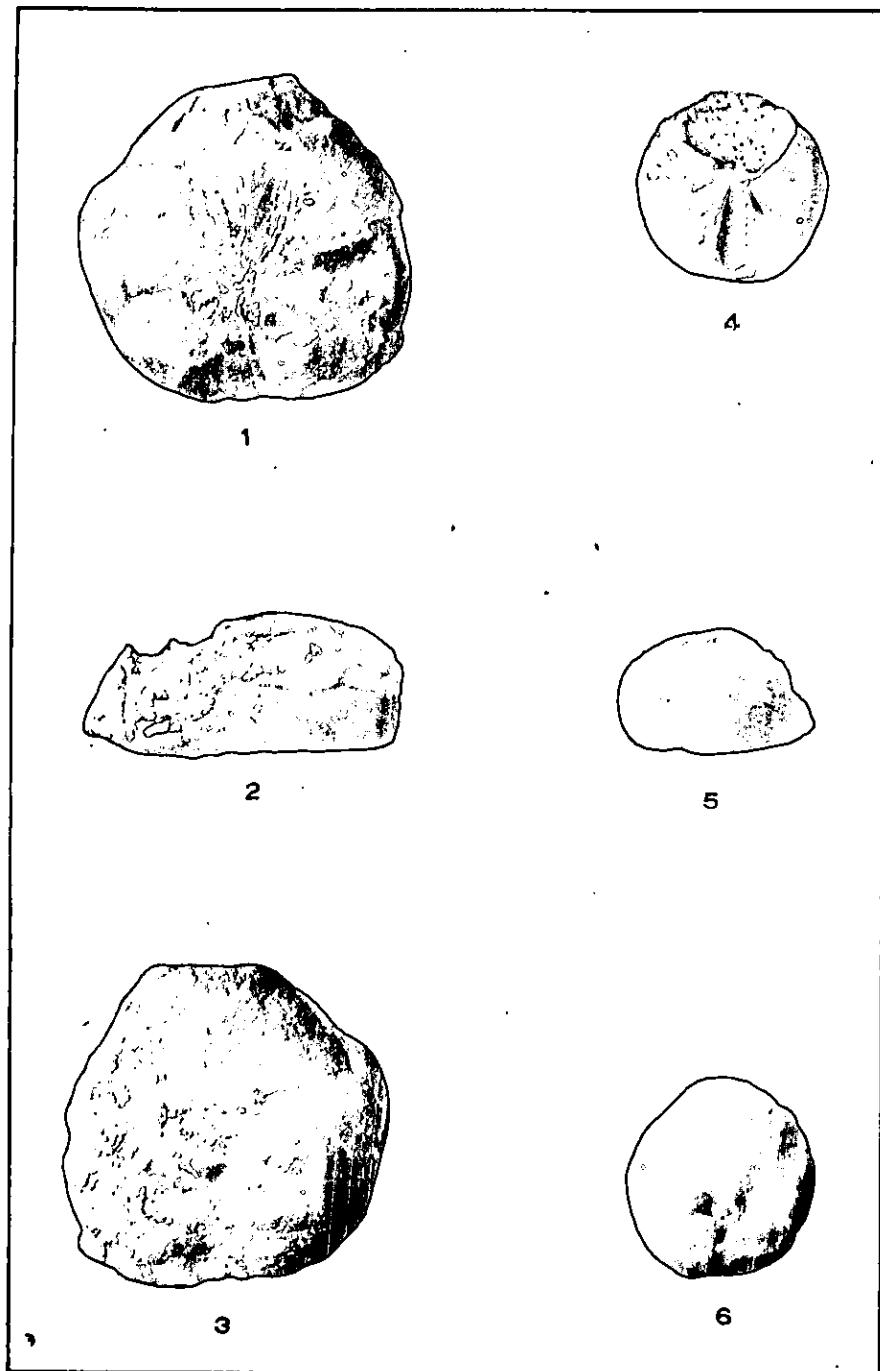
ECHINODERMATA.

EXPLANATION OF PLATE XVII.

(All illustrations contributed by Dr. W. B. Clark.)

- HEMIASTER KÜMMELI Clark n. sp., p. 303
1-3. Dorsal, lateral and ventral views of the type specimen.
Woodbury clay; Lorillard. (102).
- HEMIASTER WELLERI Clark n. sp., p. 302
4-6. Dorsal, lateral and ventral views of the type specimen.
Merchantville clay-marl; near Jamesburg. (141).

PLATE XVII.



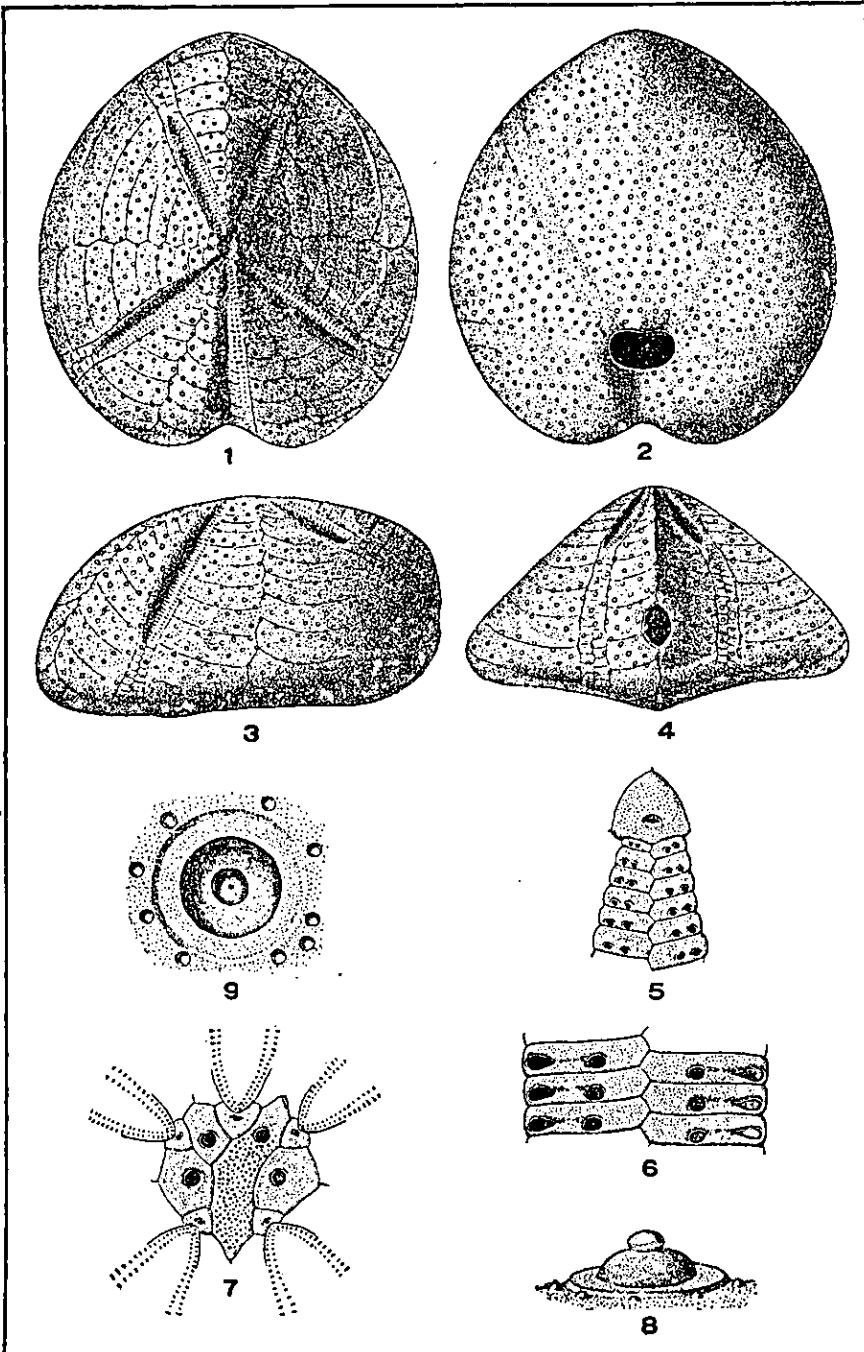
ECHINODERMATA.

EXPLANATION OF PLATE XVIII.

(All figures after Clark.)

- LINTHIA TUMIDULA Clark, p. 304
1-4. Dorsal, ventral, lateral and posterior views of a complete individual.
5. Upper portion of the anterior ambulacrum, enlarged.
6. Several plates from the petaloid region of the left postero-lateral ambulacrum, highly magnified.
7. Apical disk, enlarged.
8-9. Two views of a tubercle, from the side and from above.
Vincentown limesand.

PLATE XVIII.

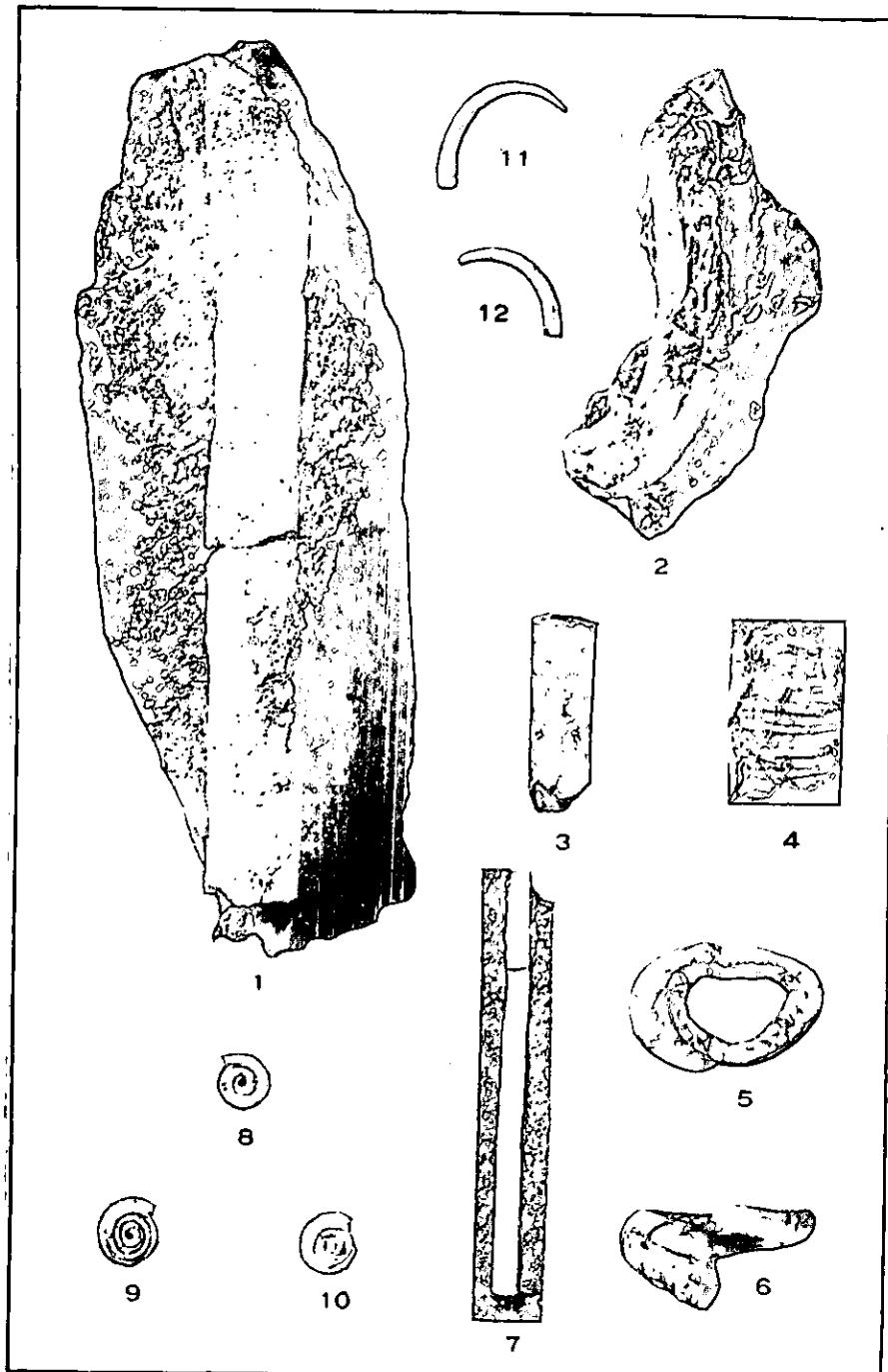


ECHINODERMATA.

EXPLANATION OF PLATE XIX.

- WORM BURROW, p. 311
1. View of an individual of average size.
Tinton Beds; Beers Hill Cut, (129°).
- SERPULA WHITFIELDI n. sp.,..... p. 308
2. View of the type specimen, illustrated by Whitfield as *Diplocoelis cretacea*.
Navesink Marl.
- HAMULUS ?? sp.,..... p. 311
3. View of the internal cast.
4. View of a squeeze showing the external characters.
Wenonah sand; near Crawfords Corner, (126°).
- SERPULA CIRCULARIS n. sp.,..... p. 307
5-6. Two views of the type specimen.
Marshalltown clay-marl; near Swedesboro (177).
- HAMULUS LINEATUS n. sp.,..... p. 310
7. View of the specimen selected as type.
Merchantville clay-marl; Lenola, (163).
- SERPULA ROTULA (Morton),..... p. 308
8-9. A sinistral and dextral specimen from the upper surface.
10. A sinistral specimen from the under side, showing the point
of attachment.
Vincentown limesand; Vincentown, (154).
- HAMULUS FALCATUS (Conrad),..... p. 309
11-12. Views of two different individuals illustrated by Whitfield.
Navesink marl.

PLATE XIX.

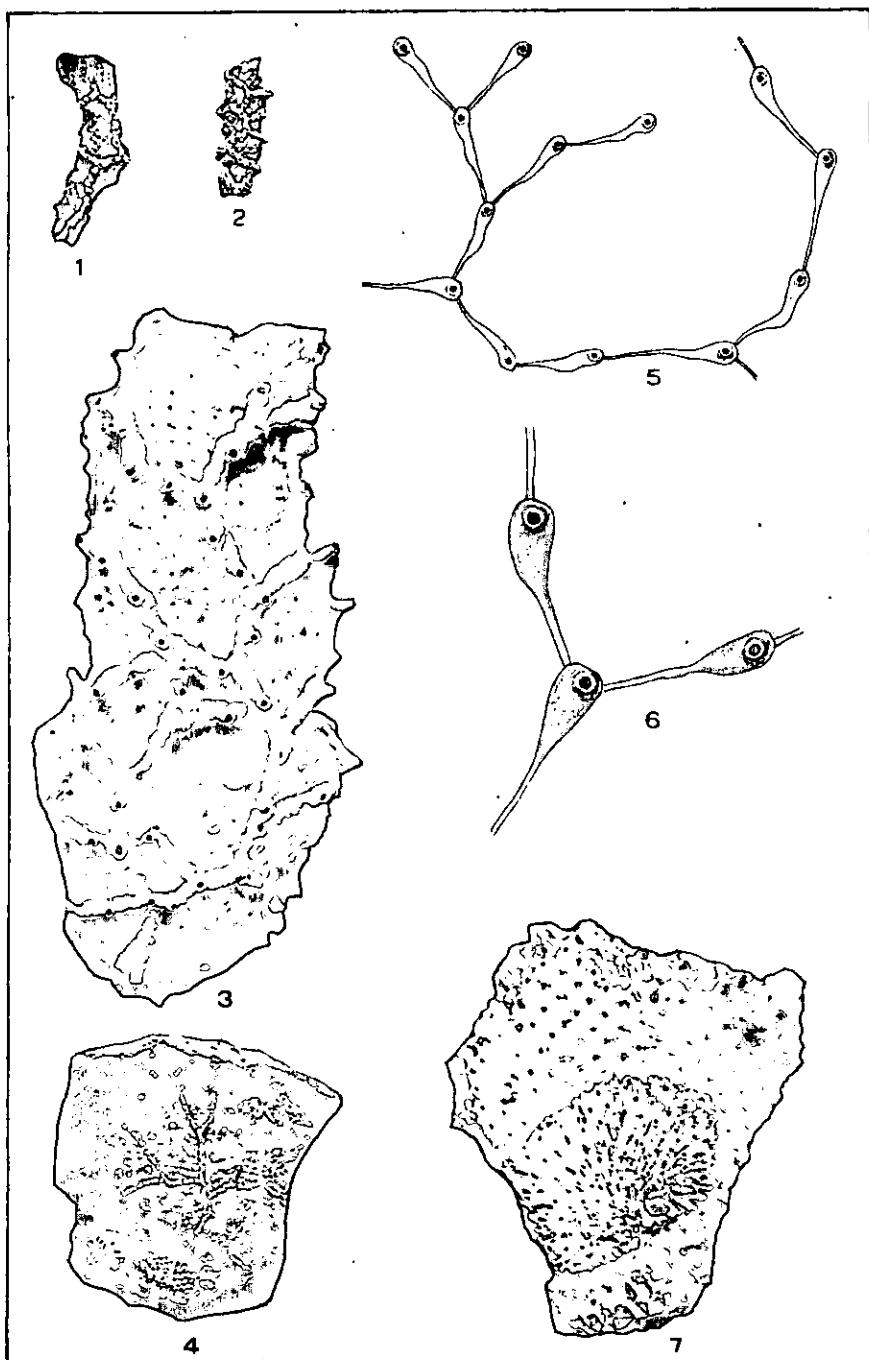


VERMES.

EXPLANATION OF PLATE XX.

- STOMATOPORA REGULARIS Gabb, p. 313
1-2. Two colonies growing upon *Onychocella digitata* (Mort.).
 (x2).
3. A similar colony, (x8).
 Vincentown limesand; Vincentown, (154).
- STOMATOPORA KUMMELI n. sp. Ulrich and Bassler, p. 314
4. The type specimen, (x2).
 Vincentown limesand, Vincentown, (154).
- STOMATOPORA TEMNICHORDA Ulrich and Bassler n. sp., p. 314
5. Drawing of the type specimen, (x24).
6. The same, (x40).
 Vincentown limesand; Vincentown, (154).
- BERENICEA AMERICANA Ulrich and Bassler n. sp., p. 315
7. The type specimen, (x8).
 Vincentown limesand; Vincentown, (154).

PLATE XX.



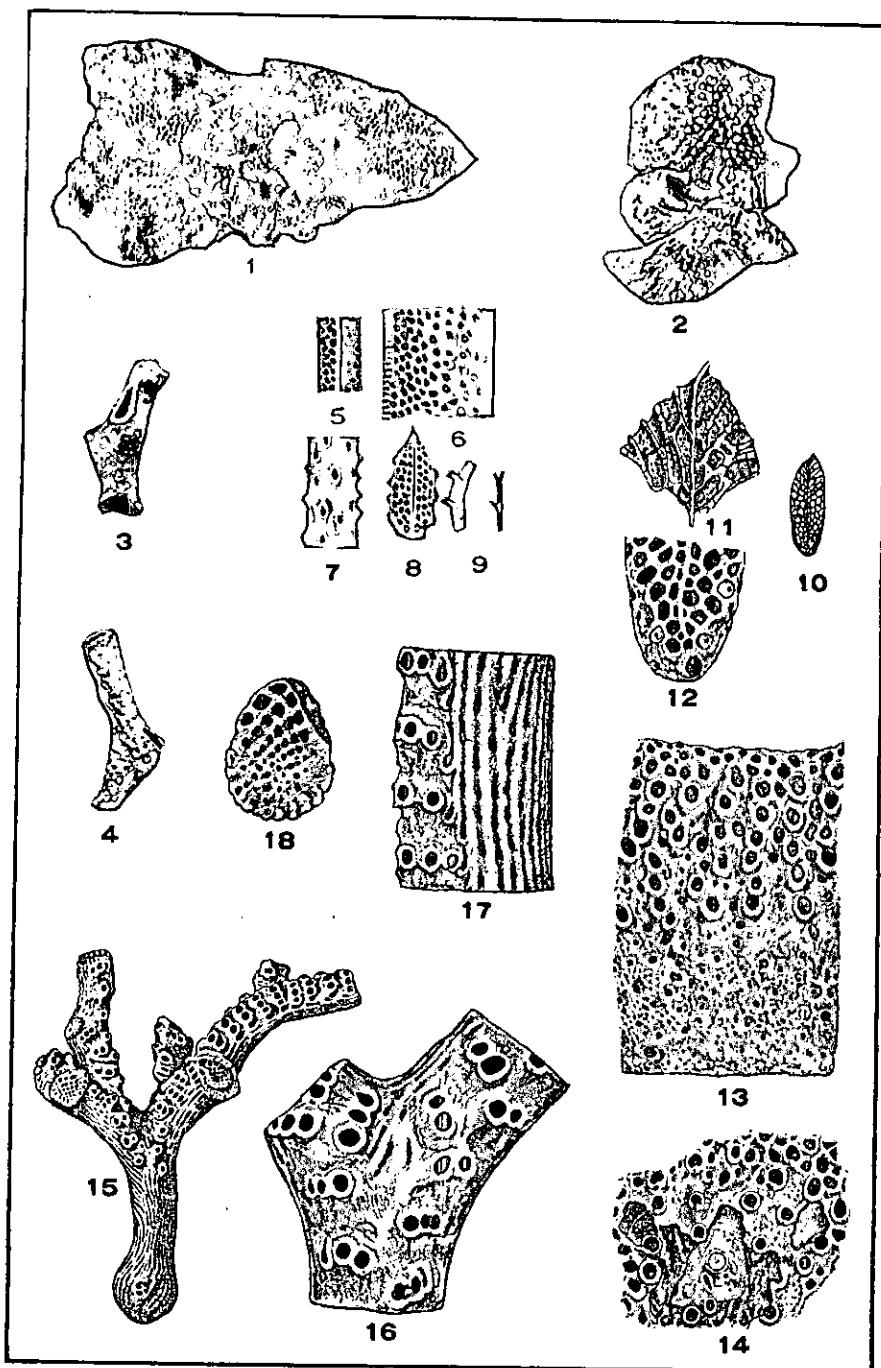
BRYOZOA.

4* PAI.

EXPLANATION OF PLATE XXI.

- DISCOSPARGA VARIANS Ulrich, p. 315
1. An attached colony, (x2).
2. A free colony, (x4).
Vincentown limesand; Vincentown, (154).
- DIASTOPORA LINEATA Gabb and Horn, p. 316
3-4. Views of two specimens, (x3).
Vincentown limesand; Vincentown, (154).
- RETICULIPORA DICHOTOMA Gabb and Horn, p. 318
5-9. Gabb and Horn's original figures.
10. Transverse section of a fragment, (x6), (after Ulrich).
11-12. Upper and lower portions of figure 10 enlarged 20 times
showing the tubes with a longitudinal direction in the
lower part; above they gradually turn upward while at
the top, fig. 11, they are nearly at right angles to the
length, (after Ulrich).
13. Portion of one side of a fragment, (x20), (after Ulrich).
14. A broken gonicyst which was formed over a previous smaller
cyst which remains intact, (x20), (after Ulrich).
Vincentown limesand; Vincentown, (154).
- CRISINA STRIATOPORA Ulrich, p. 319
15. The type specimen from the Miocene of Maryland, (x5½),
(after Ulrich).
16. Upper surface of one of the branches of the same specimen,
(after Ulrich).
17. Lateral view of the same, (x23), (after Ulrich).
18. Transverse section of one of the branches of the same, (x17),
(after Ulrich).

PLATE XXI.

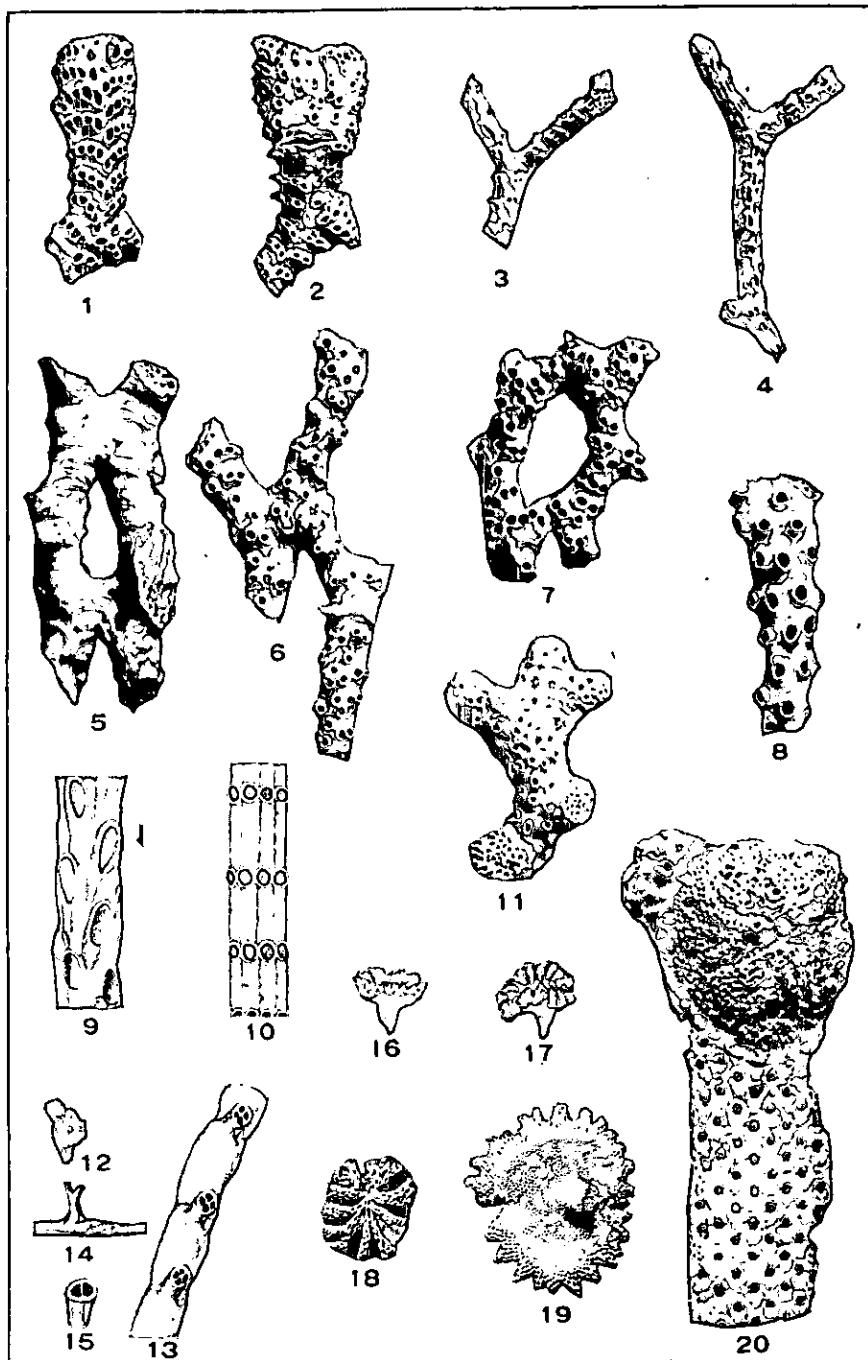


BRYOZOA.

EXPLANATION OF PLATE XXII.

- BISIDMONEA GABBIANA** Ulrich and Bassler n. sp., p. 320
 1-2. Views of two fragments, (x5).
Vincentown limesand; Vincentown, (154).
- IDMONEA ABBOTTI** Gabb and Horn, p. 321
 3-4. Views of two fragments, (x8).
Vincentown limesand; Vincentown, (154).
- FILISPARGA CONTORTILIS** (Lonsdale), p. 322
 5. View of the reverse side of a fragment, (x2).
 6-7. Views of the celluliferous sides of two fragments, (x8).
Vincentown limesand, Vincentown, (154).
- FILISPARGA BIFURCATA** Ulrich and Bassler n. sp., p. 322
 8. View of the celluliferous side of the type specimen, (x8).
Vincentown limesand; Vincentown, (154).
- ENTALOPHORA CONRADII** Gabb and Horn, p. 323
 9. View of the type specimen, much enlarged, (after Gabb and Horn).
Vincentown limesand.
- SPIROPORA CALAMUS** Gabb and Horn, p. 324
 10. View of the type specimen, much enlarged, (after Gabb and Horn).
Vincentown limesand.
- CLAUSA AMERICANA** Gabb and Horn, p. 325
 11. View of a fragment of a colony, (x8).
Vincentown limesand; Vincentown, (154).
- FILIFASCIGERA MEGAERA** (Lonsdale), p. 325
 12. View of a specimen natural size, seen encrusting another bryozoan.
 13. View of a fragment much enlarged.
 14-15. Two enlarged views showing details of structure. (All figures after Gabb and Horn.)
Vincentown limesand.
- DISCOCYTIS ECCENTRICA** Ulrich and Bassler n. sp., p. 326
 16-17. Lateral views of two colonies, (x2).
 18. Upper view of a colony, (x4).
 19. Under view of a colony, (x4).
Vincentown limesand; Vincentown, (154).
- LICHENOPORA PAPYRACEA** (d'Orbigny), p. 327
 20. View of a complete zoarium attached to *Onychocella digitata* (Mort.), (x8).
Vincentown limesand; Vincentown, (154).

PLATE XXII.

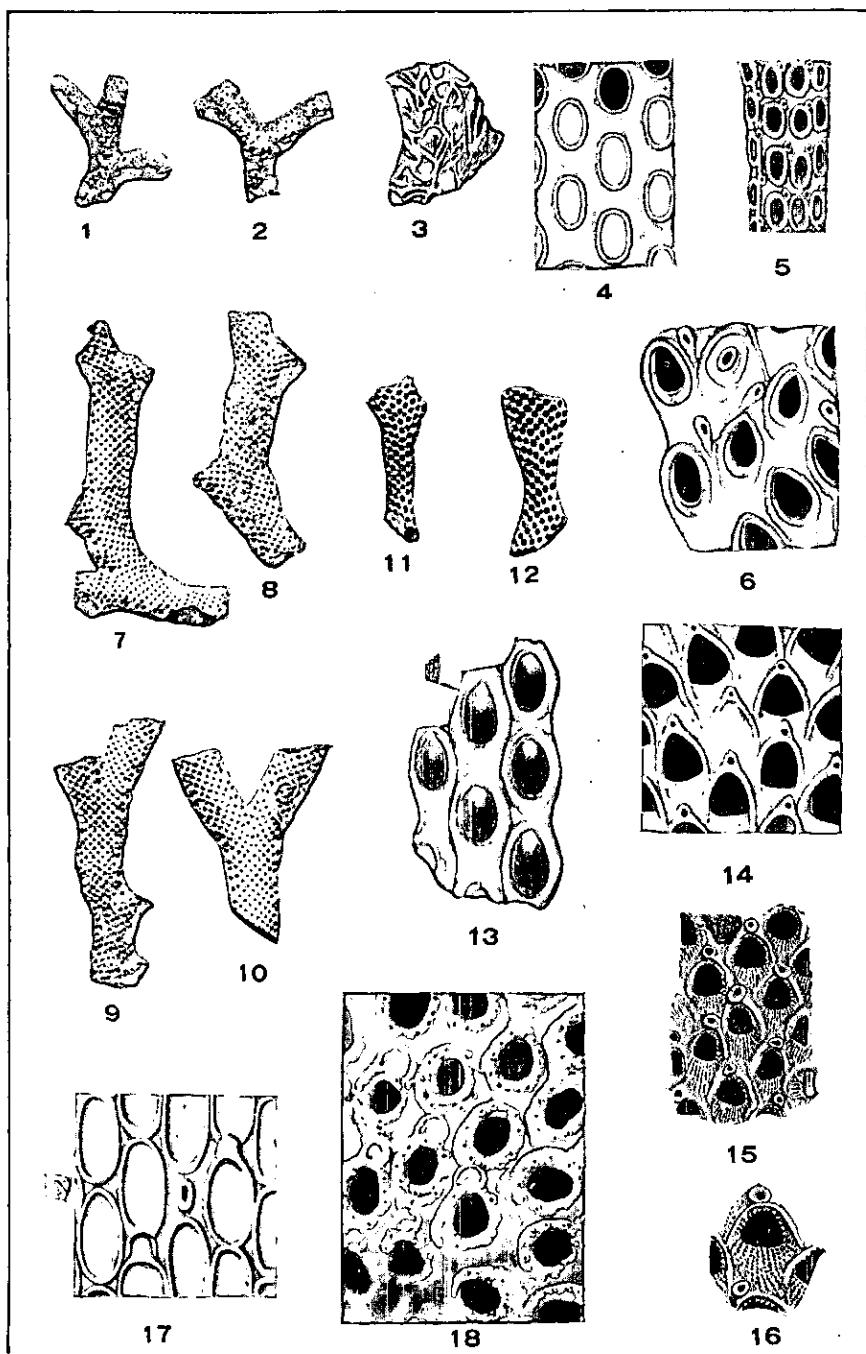


BRYOZOA.

EXPLANATION OF PLATE XXIII.

- HETEROPORA PARVICELLA (Gabb and Horn), p. 327
1-2. Views of two fragments of zoaria, (x3).
Vincentown limesand; Vincentown, (154).
- RETELEA OVALIS Gabb and Horn, p. 328
3. View of a fragment of a zoarium, natural size.
4. View of a celluliferous surface, much enlarged. (Both figures after Gabb and Horn.)
Vincentown limesand.
- FLUSTRELLA ? CAPISTRATA Gabb and Horn, p. 329
5. View of a fragment of a zoarium, much enlarged.
6. View of the basal expansion, much enlarged, described as
Membranipora abortiva by Gabb and Horn. (Both figures after Gabb and Horn.)
Vincentown limesand.
- ONYCHOCELLA DIGITATA (Morton), p. 330
7-10. Views of four fragments of zoaria, (x2).
Vincentown limesand; Vincentown, (154).
- BIFLUSTRA TORTA Gabb and Horn, p. 331
11-12. Views of two fragments of zoaria, (x3).
Vincentown limesand; Vincentown, (154).
- BIFLUSTRA DISJUNCTA Gabb and Horn, p. 333
13. View of the celluliferous surface of a zoarium much enlarged. (After Gabb and Horn.)
Vincentown limesand.
- AMPHIBLESTRUM HETEROPORA (Gabb and Horn), p. 333
14. Surface of zoarium, much enlarged. (After Gabb and Horn.)
Vincentown limesand.
15. Surface of a zoarium from the Eocene, (x20). (After Maryland Geological Survey.)
16. View of a single zoecium more highly magnified. (After Maryland Geological Survey.)
- MEMBRANIPORA PLEBIA Gabb and Horn, p. 334
17. Surface of zoarium much enlarged. (After Gabb and Horn.)
Vincentown limesand.
- MEMBRANIPORA ANNULOIDEA Ulrich and Bassler n. sp., p. 335
18. Surface of the zoarium, (x24).
Vincentown limesand; Vincentown, (154).

PLATE XXIII.

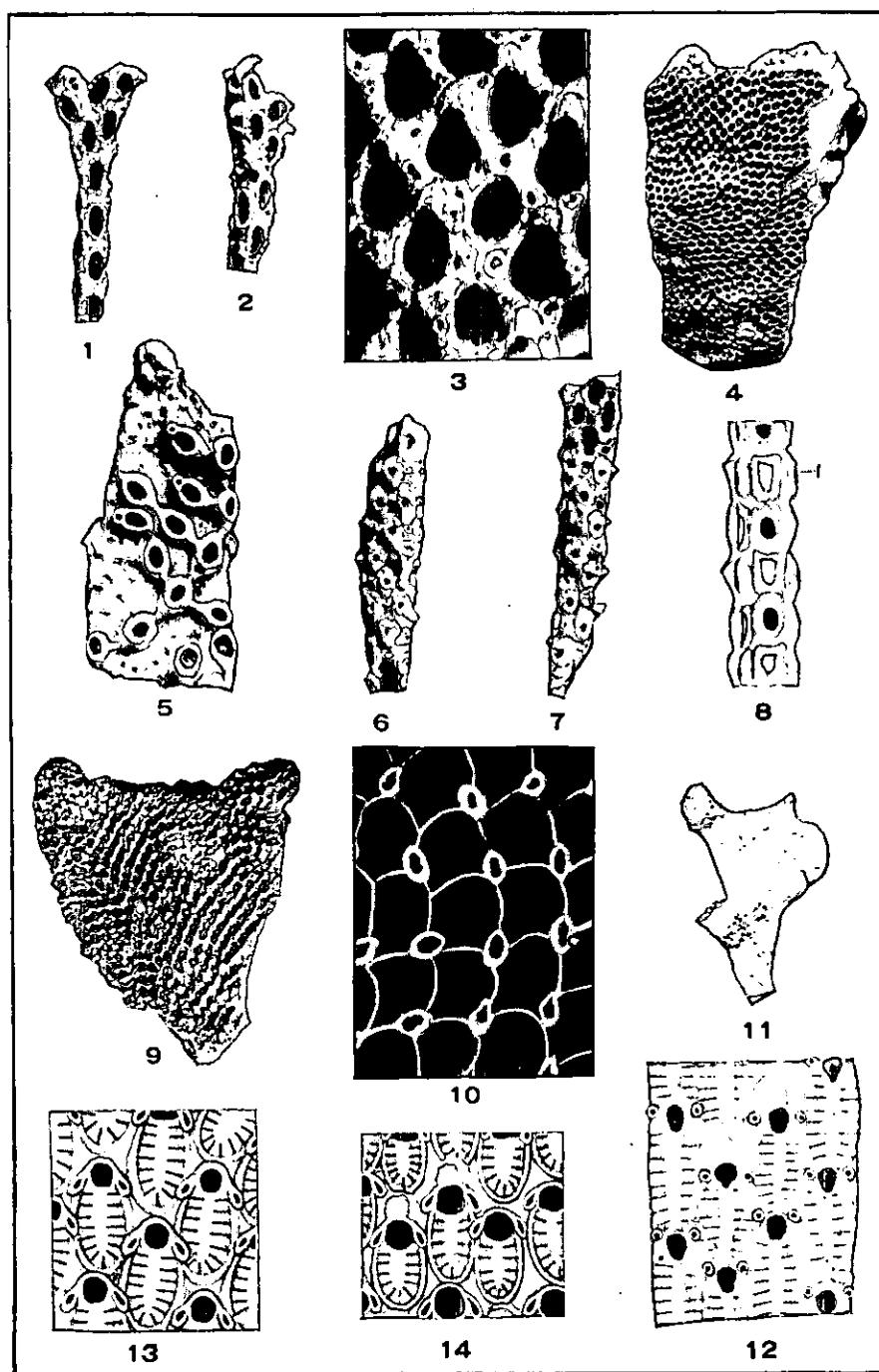


BRYOZOA.

EXPLANATION OF PLATE XXIV.

- MEMBRANIPORA NEMATOPOROIDES Ulrich and Bassler n. sp., p. 336
1-2. Fragments of two zoaria, (x8).
Vincentown limesand; Vincentown, (154).
- MEMBRANIPORA JERSEYENSIS Ulrich and Bassler n. sp., p. 336
3. Surface of zoarium, (x24).
Vincentown limesand; Vincentown, (154).
- MEMBRANIPORA PERAMPLA Gabb and Horn, p. 337
4. Surface of zoarium, (x2).
Vincentown limesand; Vincentown, (154).
- PYRIPORA IRREGULARIS Gabb and Horn, p. 337
5. View of a zoarium attached to another bryozoan, (x8).
Vincentown limesand; Vincentown, (154).
- PLANICELLARIA OCULATA (D'Orbigny), p. 338
6-7. Views of two fragments of zoaria, (x8).
Vincentown limesand; Vincentown, (154).
- PLANICELLARIA CYLINDRICA (Gabb and Horn), p. 339
8. View of a fragment of a zoarium, much enlarged. (After
Gabb and Horn.)
Vincentown limesand.
- ESCHARINELLA ALTIMURALIS Ulrich and Bassler n. sp., p. 339
9. Surface of zoarium, (x3).
10. Part of the surface of zoarium, (x24).
Vincentown limesand; Vincentown, (154).
- CRIBRILINA SAGENA (Morton), p. 340
11. View of a fragment of a zoarium, (x2).
12. Surface of the zoarium, much enlarged. (After Gabb and
Horn.)
Vincentown limesand; Vincentown, (154).
- MEMBRANIPORELLA ABBOTTI (Gabb and Horn), p. 342
13. Surface of zoarium, much enlarged.
14. Surface of zoarium described as *Reptescharipora marginata*
by Gabb and Horn, much enlarged. (Both figures after
Gabb and Horn.)
Vincentown limesand.

PLATE XXIV.

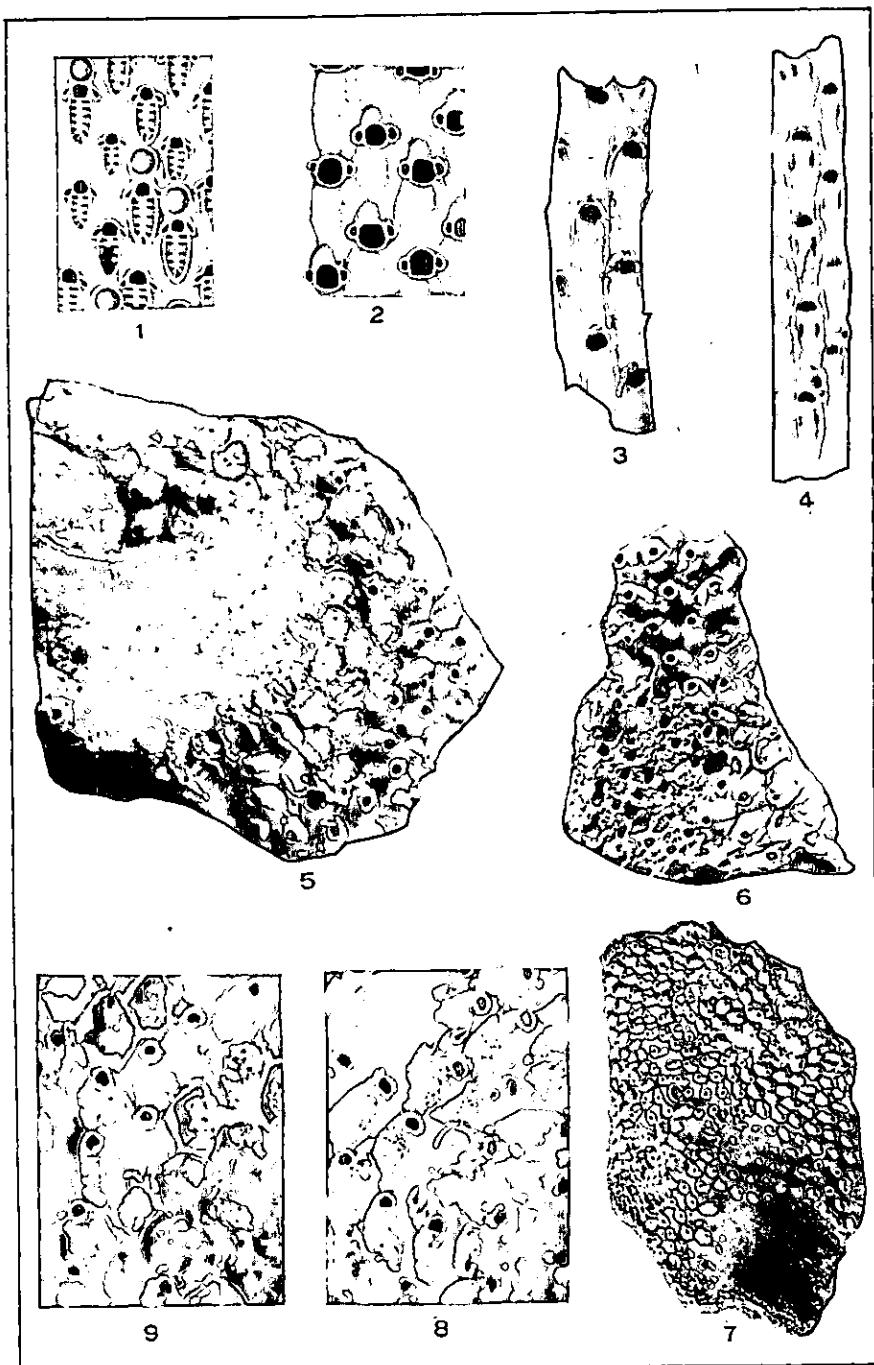


BRYOZOA.

EXPLANATION OF PLATE XXV.

- MEMBRANIPORELLA DISTANS (Gabb and Horn), p. 344
1. Surface of zoarium, much enlarged. (After Gabb and Horn.)
Vincentown limesand.
- REPTESCHARELLINA PROLIFERA Gabb and Horn, p. 346
2. Much enlarged surface of zoarium. (After Gabb and Horn.)
Vincentown limesand.
- MICROPORA PULCHRA Ulrich and Bassler n. sp., p. 347
3. Fragment of zoarium, (x24).
Vincentown limesand; Vincentown, (154).
- MICROPORA CYLINDRACEA Ulrich and Bassler n. sp., p. 347
4. Fragment of a zoarium, (x24).
Vincentown limesand; Vincentown, (154).
- MONOPORELLA EXSERTA Ulrich and Bassler n. sp., p. 349
5-6. Surfaces of two zoaria, (x8).
7. Surface of zoarium, (x3).
Vincentown limesand; Vincentown, (154).
- MICROPORELLA SPARSIPORA Ulrich and Bassler n. sp., p. 348
8. Surface of zoarium, (x24).
Vincentown limesand; Vincentown, (154).
- MICROPORA ? VINCENTOWNENSIS Ulrich and Bassler n. sp., p. 348
9. Surface of zoarium, (x24).
Vincentown limesand; Vincentown, (154).

PLATE XXV.

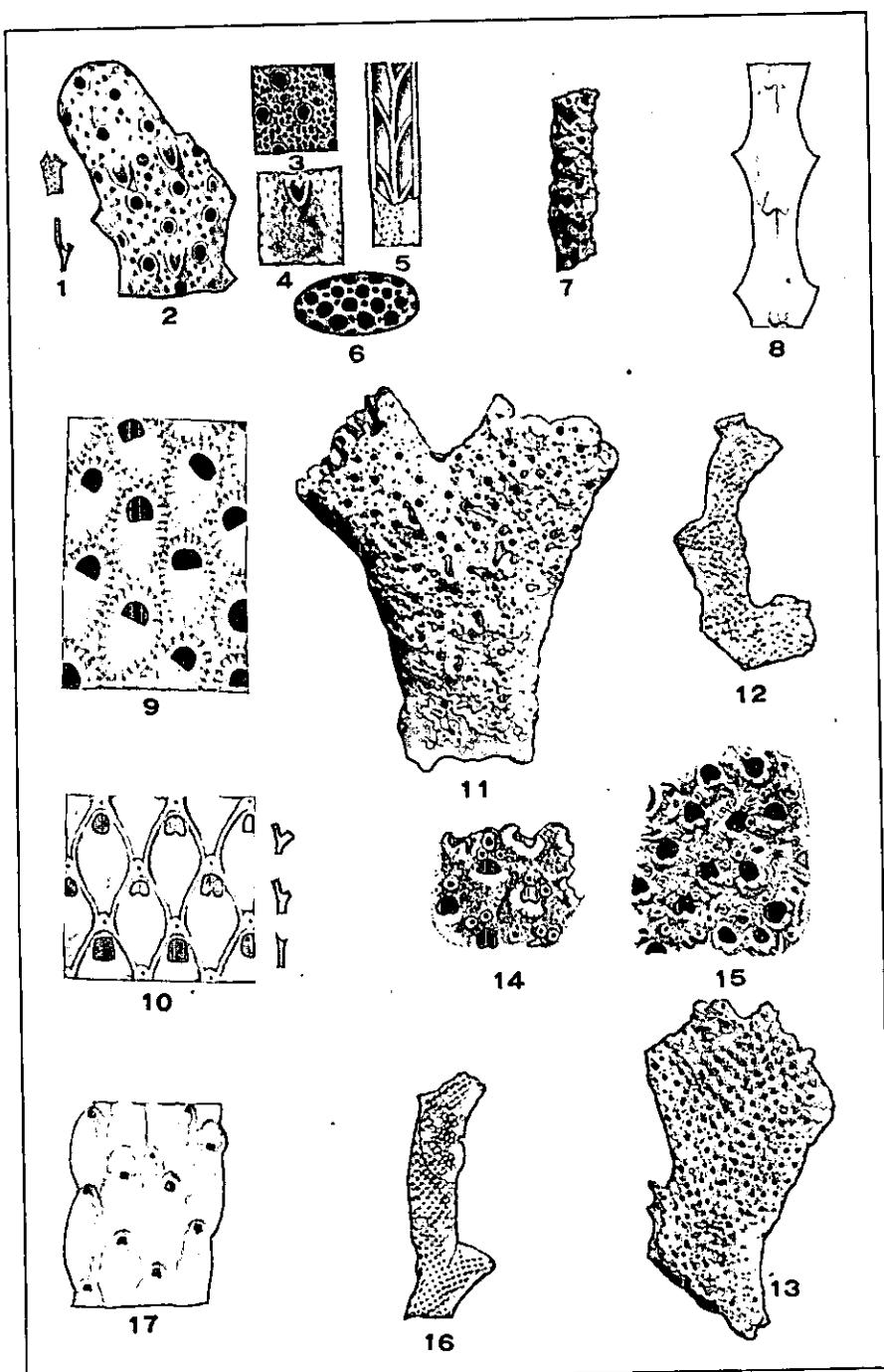


BRYOZOA.

EXPLANATION OF PLATE XXVI.

- PORINA LABIATA (Gabb and Horn), p. 350
1. Fragment of zoarium, natural size.
2. The same much enlarged.
3. Surface of zoarium much enlarged.
4. View of ovicell, much enlarged.
5. A longitudinal section, enlarged.
6. A cross section, enlarged.
(All figures after Gabb and Horn.)
Vincentown limesand.
- PORINA QUADRANGULARIS Gabb and Horn, p. 350
7. Fragment of a zoarium possibly belonging to this species.
(x6).
8. View of the type specimen. (After Gabb and Horn.)
Vincentown limesand; Vincentown, (154).
- LEPRALIA ASPERA (Gabb and Horn), p. 352
9. Much enlarged surface of zoarium. (After Gabb and Horn.)
Vincentown limesand.
- MUCRONELLA MURALIS (Gabb and Horn), p. 352
10. Much enlarged surface of zoarium. (After Gabb and Horn.)
Vincentown limesand.
- PORINA CORONATA (Reuss)? p. 351
11. Fragment of zoarium, (x6).
Vincentown limesand; Vincentown, (154).
- MUCRONELLA TYPICA (Gabb and Horn), p. 353
12. Fragment of zoarium, (x2).
13. Fragment of zoarium, (x4).
Vincentown limesand; Vincentown, (154).
- MUCRONELLA ASPERA Ulrich, p. 354
14-15. Surface characters of two Eocene zoaria, (x20).
(After Maryland Geological Survey.)
- MUCRONELLA PUMILA (Gabb and Horn), p. 355
16. View of an encrusting zoarium upon a specimen of *Onychocella digitata*, (x2).
17. Much enlarged surface of zoarium. (After Gabb and Horn.)
Vincentown limesand; Vincentown, (154).

PLATE XXVI.

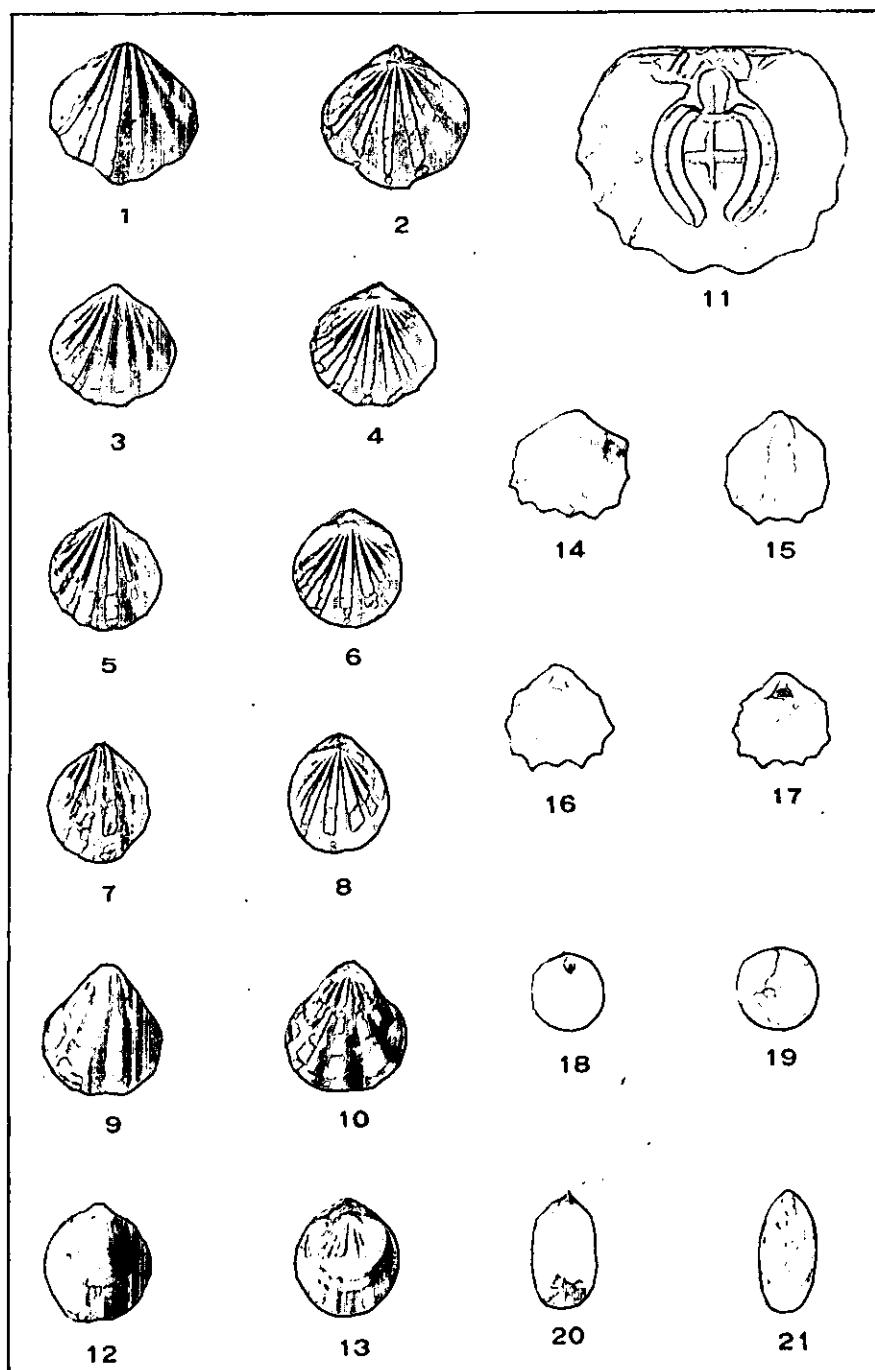


BRYOZOA.

EXPLANATION OF PLATE XXVII.

- TEREBRATELLA PLICATA (Say), p. 364
1-10. Two views each of five different individuals, showing something of the range of variation of the species.
Navesink marl; near Crawfords Corner, (126³).
11. The brachidium. (After Whitfield.)
- TEREBRATELLA VANUXEMI (Lyell and Forbes), p. 366
12-13. Two views of a very perfect individual.
Navesink marl; near Holmdel, (128³).
- CISTELLA BEECHERI Clark, p. 361
14-17. Views of four different individuals.
Vincentown limesand; Vincentown, (154).
- PLATIDA CRETACEA n. sp., p. 363
18-19. Views of the type specimens.
Vincentown limesand; Vincentown, (154).
- LINGULA SUBSPATULA Hall and Meek, p. 356
20-21. Views of two individuals.
Woodbury clay; Lorillard, (102).

PLATE XXVII.

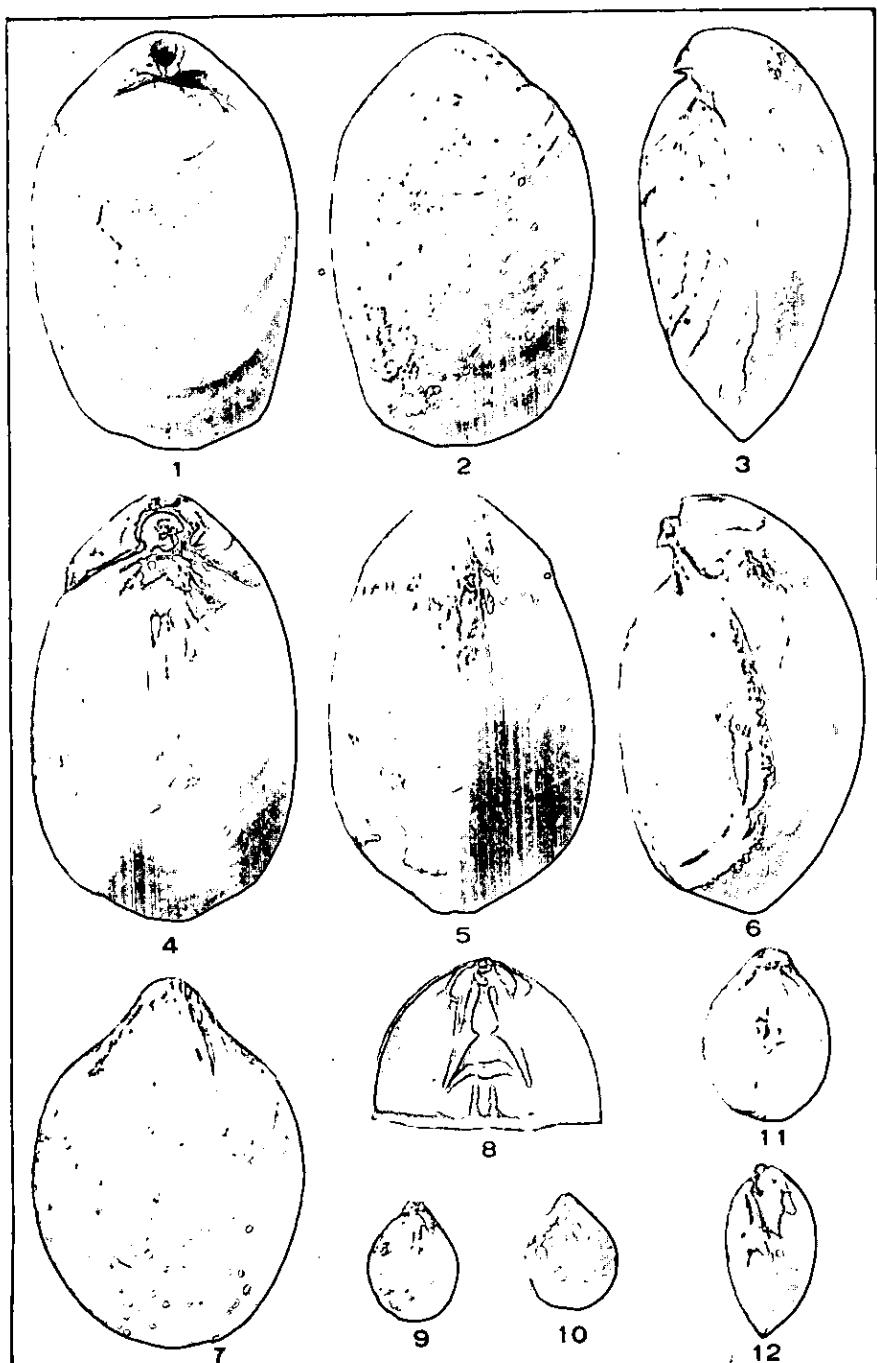


BRACHIOPODA.

EXPLANATION OF PLATE XXVIII.

- TEREBRATULA HARLANI Morton, p. 357
1-3. Three views of a very perfect specimen of the typical form.
Vincentown formation; near New Egypt.
4-6. Three views of a specimen belonging to the variety *fragiles*.
Same locality.
7. Internal cast of pedicle valve.
Vincentown sand; near Deal, (122).
8. The brachidium. (After Whitfield.)
- TEREBRATULINA ATLANTICA (Morton), p. 360
9-10. Two views of a nearly perfect internal cast.
11-22. Two views of a similar but somewhat larger individual.
Manasquan marl; Farmingdale, (138).

PLATE XXVIII.



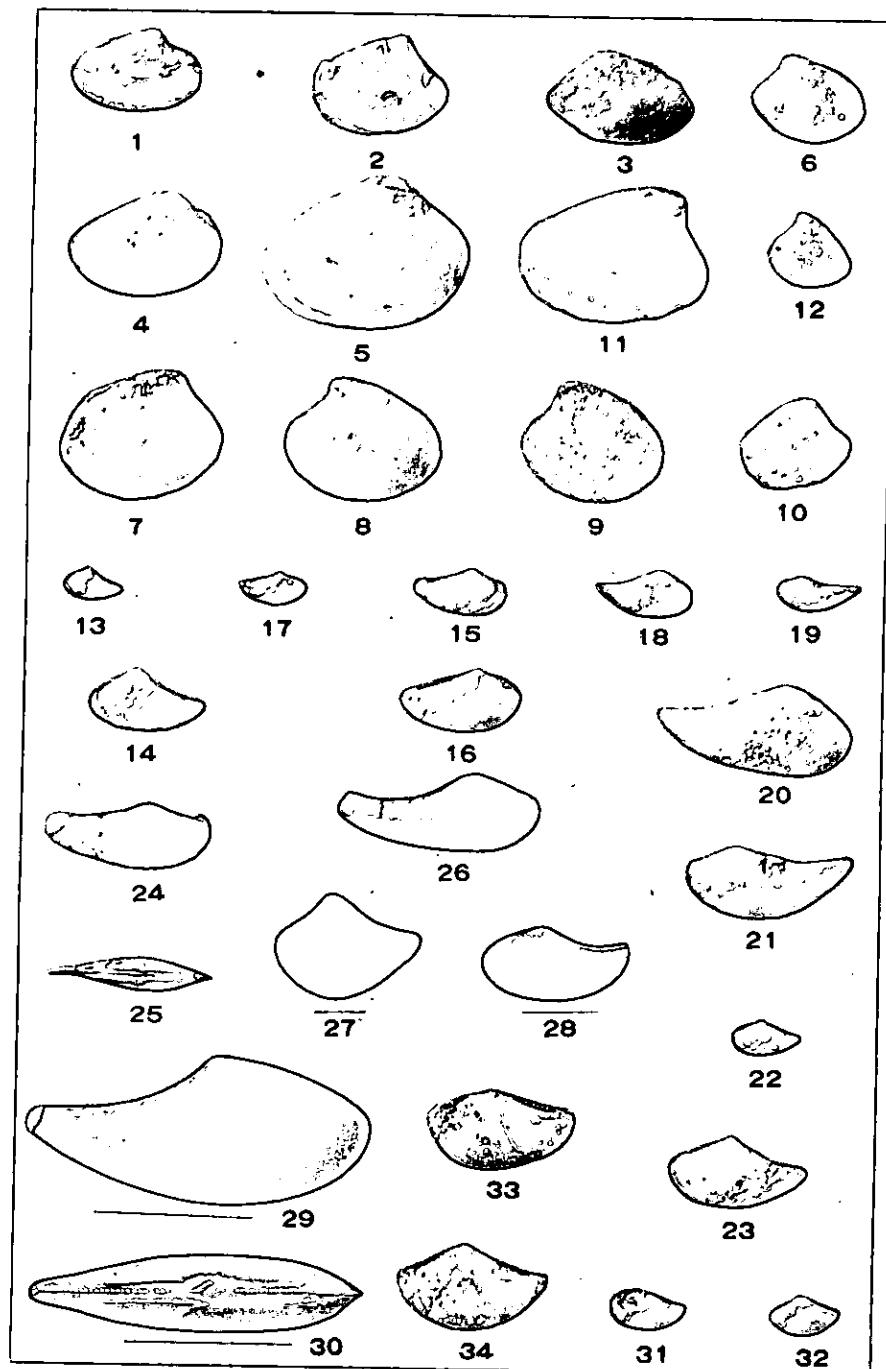
BRACHIOPODA.

5* PAL

EXPLANATION OF PLATE XXIX.

- NUCULA PERCRASSA* Con., p. 369
 1. Internal cast of a right valve.
Cliffwood clay; Cliffwood Point, (105).
 2-3. Views of two internal casts.
Merchantville clay-marl; Lenola, (163).
 4. Internal cast of a right valve.
Woodbury clay; Lorillard, (102).
 5. A right valve with the shell preserved.
Marshalltown clay-marl; near Swedesboro, (177).
NUCULA WHITEFIELDI n. sp., p. 371
 6-9. Internal casts of several valves.
Wenonah sand; near Marlboro, (130).
 10. Internal cast of a right valve.
Wenonah sand; near Crawfords Corner, (126³).
 11-12. Internal casts of a right and a left valve.
Woodbury clay; Lorillard, (102).
LEDA COMPRESSIFRONS (Whitfield), p. 372
 13-14, 15-16. Views of two internal casts, a left and a right valve,
 natural size and enlarged two diameters.
Woodbury clay; Lorillard, (102).
 17. Internal cast of a right valve probably belonging to this
 species.
Merchantville clay-marl; near Jamesburg, (139).
LEDA MARLBOROENSIS n. sp., p. 374
 18-19. Views of two internal casts, a right and a left valve.
 20-21. The same, (x2).
Wenonah sand; near Marlboro, (130).
 22. Internal cast of a left valve.
 23. The same, (x2).
Wenonah sand; near Crawfords Corner, (126³).
LEDA CLIFFWOODENSIS n. sp., p. 377
 24-25. Right side and dorsal aspect of the type specimen, a very
 perfect internal cast.
Cliffwood clay; Cliffwood Point, (105).
LEDA PROTENTA Gabb, p. 375
 26. View of the type specimen, partially restored. (After
 Whitfield.)
Navesink marl.
LEDA PINNAFORMIS Gabb, p. 373
 27. View of type specimen, (x3). (After Whitfield.)
Woodbury clay; Haddonfield, (183).
LEDA GABBANA (Whitfield), p. 378
 28. View of a small individual identified by Whitfield. (After
 Whitfield.)
 29-30. Two views of a larger individual identified by Whitfield.
 (After Whitfield.)
Navesink marl.
LEDA TINTONENSIS n. sp., p. 379
 31-32. Views of the two type specimens.
 33-34. The same, (x2).
Tinton beds; Beers Hill Cut, (129³).

PLATE XXIX.



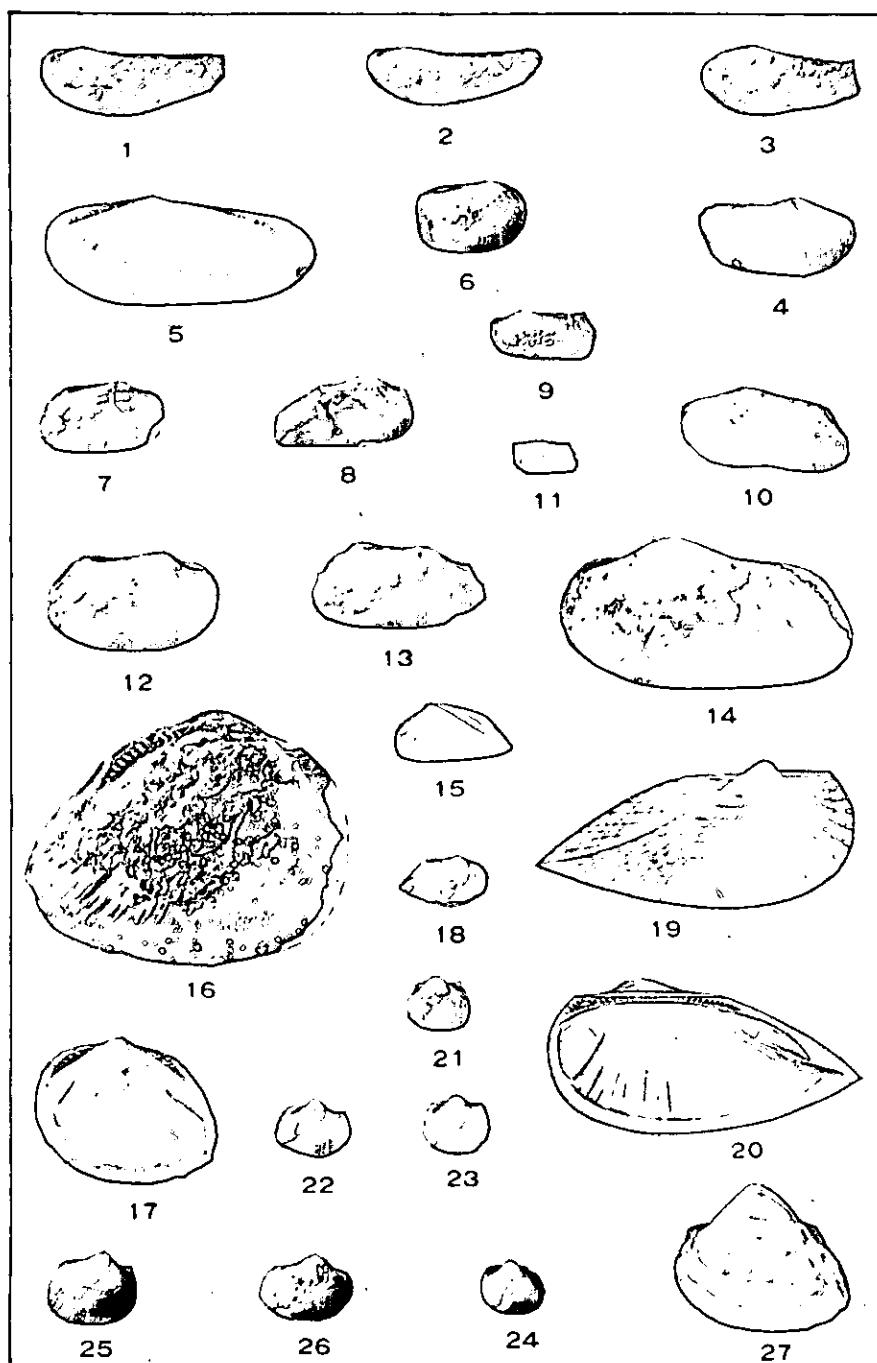
PELECYPODA.

EXPLANATION OF PLATE XXX.

- PERRISONOTA PROTEXTA** Conrad, p. 379
 1-2. Views of two internal casts of left valves, showing the impression of the hinge.
Red Bank sand; Shrewsbury River, (119).
- YOLDIA CLIFFWOODENSIS** n. sp., p. 383
 3. The internal cast of a left valve, imperfect posteriorly.
Cliffwood clay; Cliffwood Point, (185).
 4. The internal cast of a right valve.
Cliffwood clay; near Matawan, (107).
- YOLDIA LONGIFRONS** (Conrad), p. 381
 5. A very perfect internal cast of a left valve, showing the impression of the hinge.
Woodbury clay; Lorillard, (102).
- YOLDIA PAPYRIA** (Conrad), p. 382
 6. View of an internal cast of a right valve, showing the impression of the hinge.
Woodbury clay; near Matawan, (103).
- NEMODON CONRADI** Johnson, p. 387
 7. The internal cast of a right valve.
Woodbury clay; Lorillard, (102).
- NEMODON EUFAULENSIS** (Gabb), p. 385
 8. The internal cast of a right valve.
Merchantville clay-marl; near Jamesburg, (139).
 9. The internal cast of a left valve.
Red Bank sand; Red Bank, (116).
 10. The internal cast of a left valve. The specimen illustrated by Whitfield.
Navesink marl.
 11. A small form doubtfully referred to this species.
Vincentown formation; near Farmingdale, (134).
- NEMODON BREVIFRONS** Conrad, p. 389
 12. A very perfect internal cast of the right valve.
Cliffwood clay; Cliffwood Point, (105).
 13. The internal cast of a right valve.
Wenonah sand; near Marlboro, (130).
 14. The internal cast of a large left valve referred doubtfully to this species.
Wenonah sand; near Crawford's Corner, (126²).
- NEMODON ANGULATUM** (Gabb), p. 388
 15. The left side of the type specimen. (After Whitfield.)
Navesink marl?

- TRIGONARCA TRIQUETRA Conrad, p. 402
 16. The internal cast of a right valve, showing the impression
 of the hinge.
 Cliffwood clay; Cliffwood Point, (185).
- TRIGONARCA CLIFFWOODENSIS n. sp., p. 401
 17. The internal cast of a left valve, the type specimen.
 Cliffwood clay; Cliffwood Point, (185).
- TRIGONARCA CUNEIFORMIS Conrad, p. 403
 18. The internal cast of a right valve, (x2).
 Woodbury clay; near Matawan, (103).
 19-20. External and internal views of a perfect right valve, (x7).
 (After Whithfield.)
 Woodbury clay; Haddonfield, (183).
- BREVIARCA SAFFORDI (Gabb), p. 404
 21-24. Views of four different internal casts of single valves.
 Woodbury clay; Lorillard, (102).
- BREVIARCA CUNEATA (Gabb), p. 406
 27. View of the internal cast of a left valve.
 Woodbury clay; Lorillard, (102).
- NEMOARCA CRETACEA Conrad, p. 413
 25. The internal cast of a right valve.
 Woodbury clay; Lorillard, (102).
 26. The internal cast of a right valve.
 Merchantville clay-marl; near Matawan, (101).

PLATE XXX.

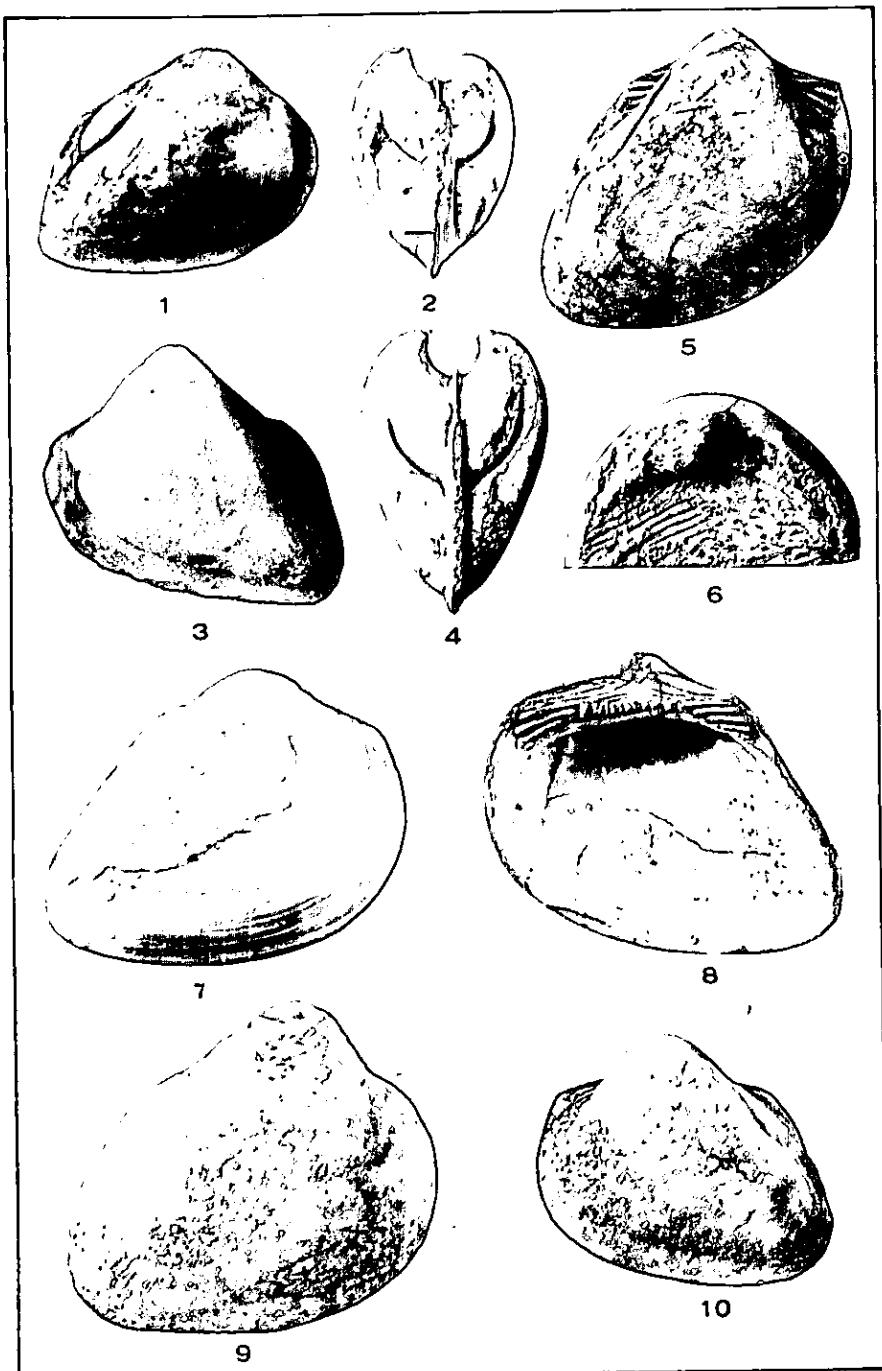


PELECYPODA.

EXPLANATION OF PLATE XXXI.

- CUCULLAEA NEGLECTA Gabb, p. 396
1-2. Views of the right side and posterior end of a very perfect internal cast.
Navesink marl; Mullica Hill, (169).
3-4. Views of the left side and posterior end of a very perfect internal cast.
Navesink marl; near Holmdel, (127²).
- CUCULLAEA TIPPANA Conrad, p. 394
5. The internal cast of a right valve.
Red Bank sand; Shrewsbury River, (119).
6. The cardinal area, a plaster cast from a natural impression of the shell.
Same locality.
7-8. External and internal views of a very perfect right valve.
Marshalltown clay-marl; near Swedesboro, (177).
9-10. Views of two internal casts, a right valve and a left valve.
Tinton beds; Beers Hill Cut, (129³).

PLATE XXXI.

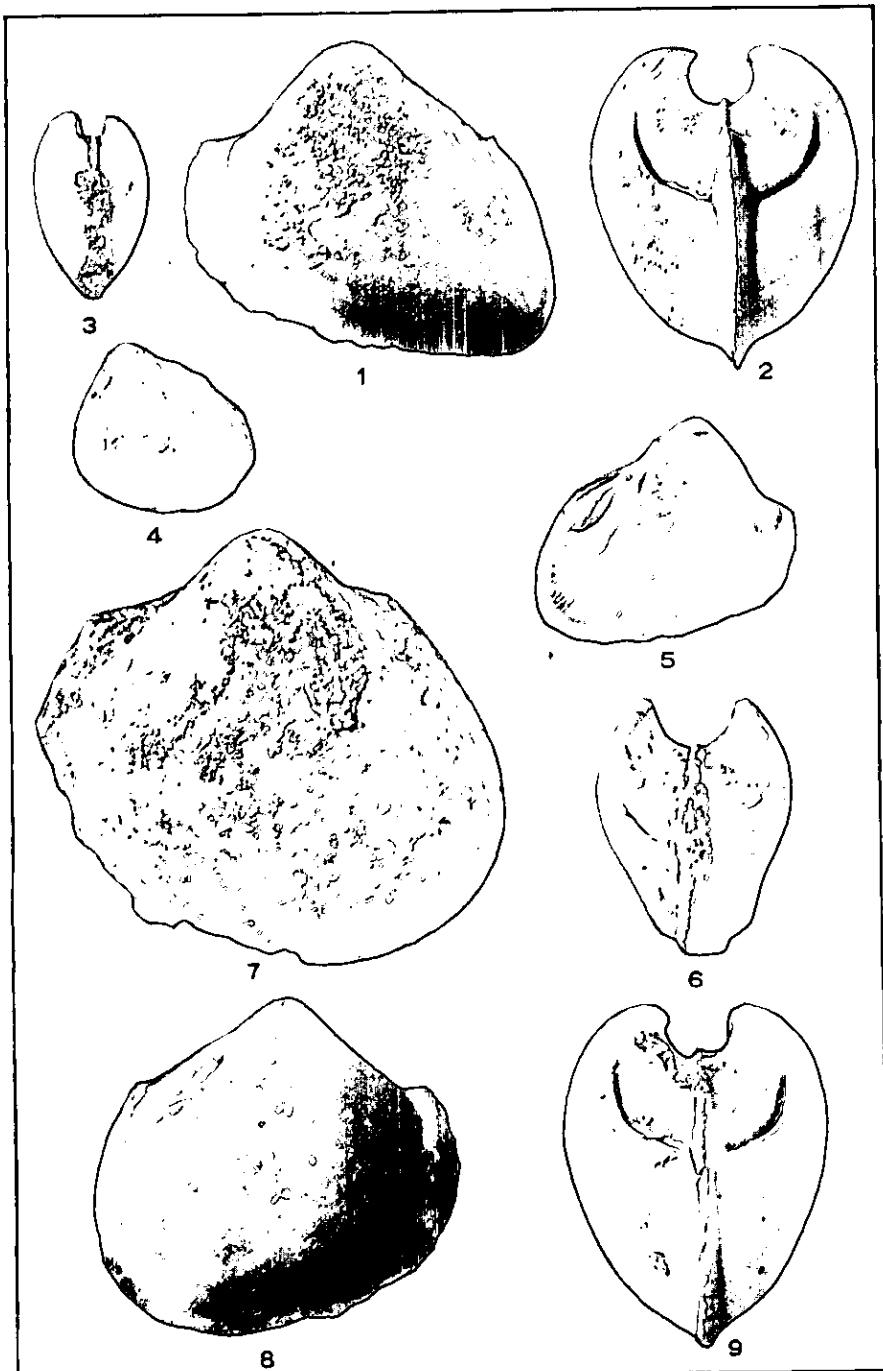


PELECYPODA.

EXPLANATION OF PLATE XXXII.

- CUCULLAEA TIPPARA Con. p. 394
1-2. Views of the left side and posterior end of a very perfect internal cast.
Marshalltown clay-marl; Marshalltown, (190).
- CUCULLAEA COMPRESSIROSTRA Whitf., p. 399
3-4. Views of the posterior end and the left side of the internal cast used by Whitfield as type of the species.
Sewell marl; Tinton Falls, (Cook's Pits).
- CUCULLAEA VULGARIS Morton, p. 397
5-6. Views of the right side and the posterior end of a very perfect internal cast.
Sewell marl; near Hornerstown, (152).
- CUCULLAEA ANTROSA Morton, p. 391
7. Internal cast of a large left valve.
Navesink marl; near Walnford, (148⁴).
- 8-9. Views of the right side and posterior end of a very perfect internal cast illustrated by Whitfield.
Navesink marl.

PLATE XXXII.

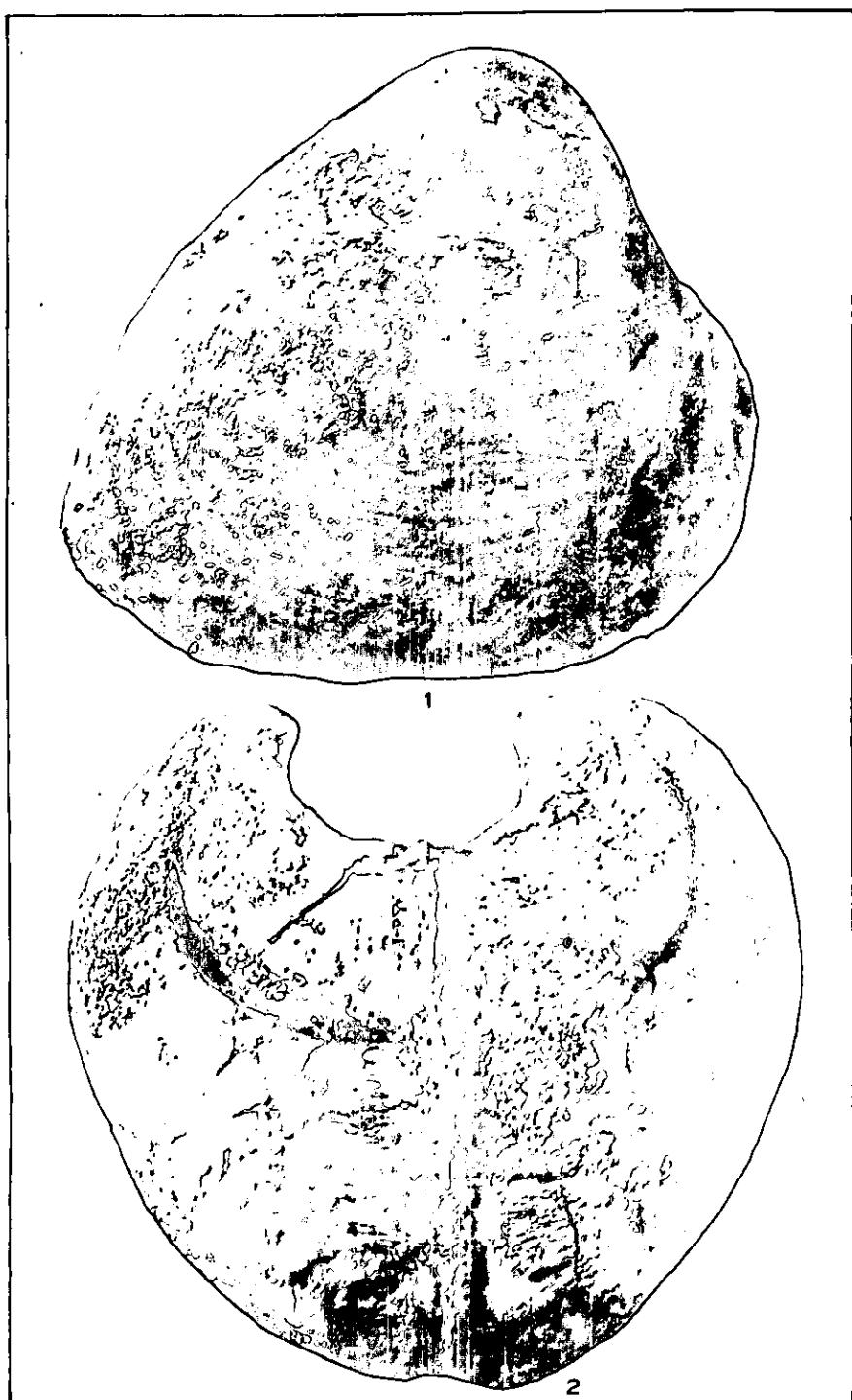


PELECYPODA.

EXPLANATION OF PLATE XXXIII.

- CUCULLAEA LITTLEI (Gabb), p. 400
1-2. Views of the right side and the posterior end of a nearly
perfect internal cast of this species.
Tinton beds; Beers Hill cut. (129^r).-

PLATE XXXIII.

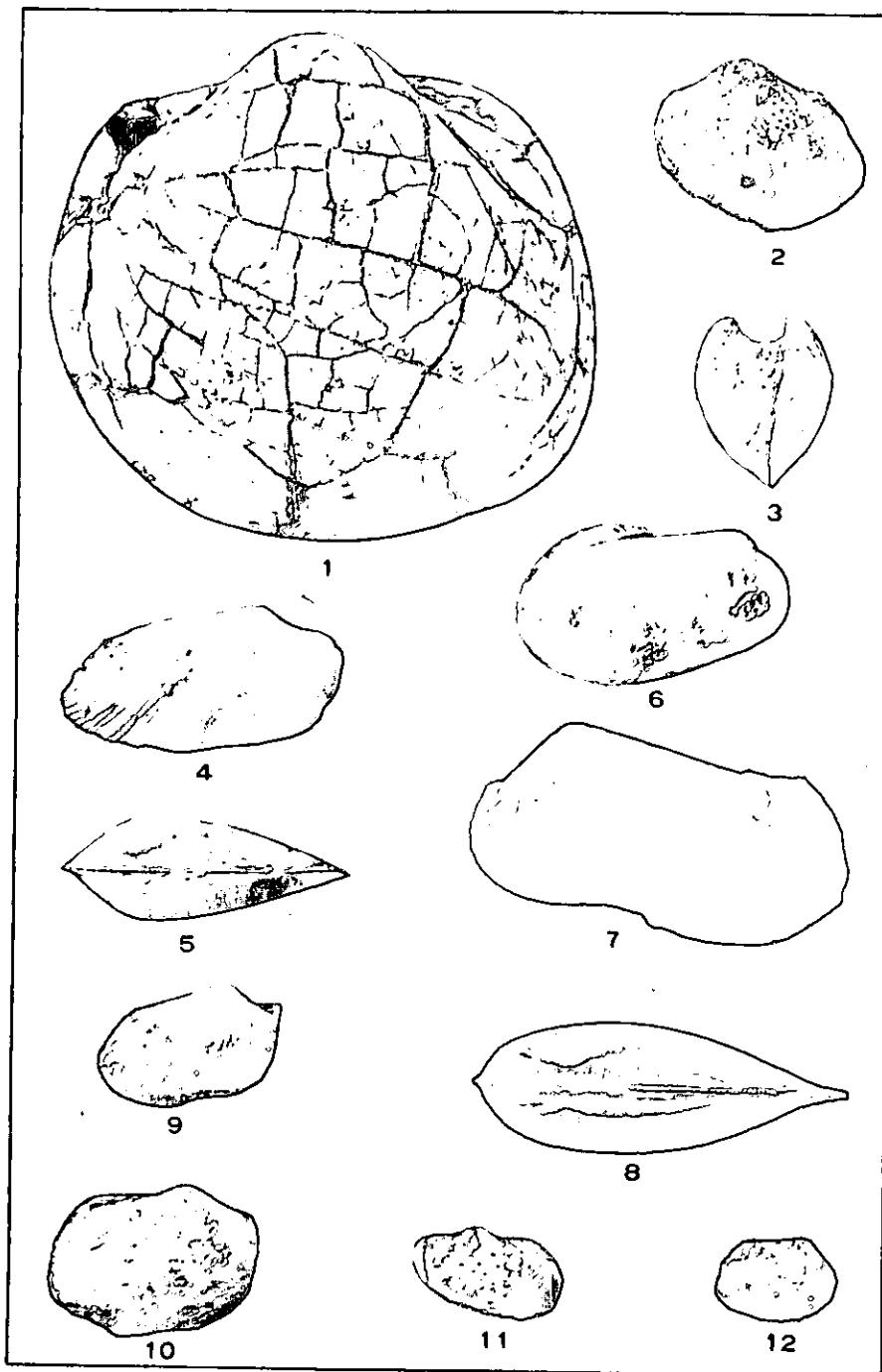


PELECYPODA.

EXPLANATION OF PLATE XXXIV.

- CUCULLAEA WOODBURYENSIS n. sp., p. 393
1. The type specimen, an internal cast of a left valve.
Woodbury clay; Lorillard, (102).
- ARCA QUINDECIMRADIATA Gabb, p. 410
2-3. Views of the left side and the posterior end of a nearly perfect internal cast.
Vincentown limesand; Hurffville, (171).
- ARCA ROSTELLATA Morton, p. 408
4-5. Views of the right side and dorsal margin of a very perfect internal cast figured by Whitfield.
Navesink marl; Holmdel.
- ARCA UNIOPSIS Conrad, p. 407
6. An internal cast of the right valve.
Navesink marl; Crosswicks Creek, (149).
7-8. Left and dorsal views of a nearly complete internal cast.
(After Whitfield.)
- ARCA OBESA (Whitfield), p. 409
9. The internal cast of a right valve.
Merchantville clay-marl; Lenola, (163).
- ARCA sp.
10-12. Views of three internal casts.
Vincentown formation; near Deal, (122).

PLATE XXXIV.



PELECYPODA.

EXPLANATION OF PLATE XXXV.

AXINEA SUBAUSTRALIS d'Orbigny. p. 414

1. A large internal cast of the left valve.

Navesink marl; Crosswicks Creek, (149).

2-3. Two internal casts of medium size with very strong teeth and crenulations of the margin.

Tinton Beds; Beers Hill cut, (129^o).

4-5. Two internal casts.

' *Merchantville clay-marl; Lenola, (163).*

6. Right side of a nearly complete individual preserving the shell, illustrated by Whitfield.

Navesink marl; Crosswicks Creek.

7-8. Two internal casts.

Vincentown formation; near Deal, (122).

AXINEA COMPRESSA n. sp. p. 417

9. The type specimen, an internal cast of a right valve.

Red Bank sand; near Middletown, (112).

AXINEA MICRODENTUS n. sp., p. 416

10-11. Two internal casts.

Wenonah sand; near Crawfords Corner, (126^o).

AXINEA CONGESTA (Conrad). p. 418

12-13. Left and dorsal views of a nearly perfect internal cast.

14. Left side of the same, (x2).

Cliffwood Clay; near Matawan, (185).

15. Internal cast of a right valve showing the hinge.

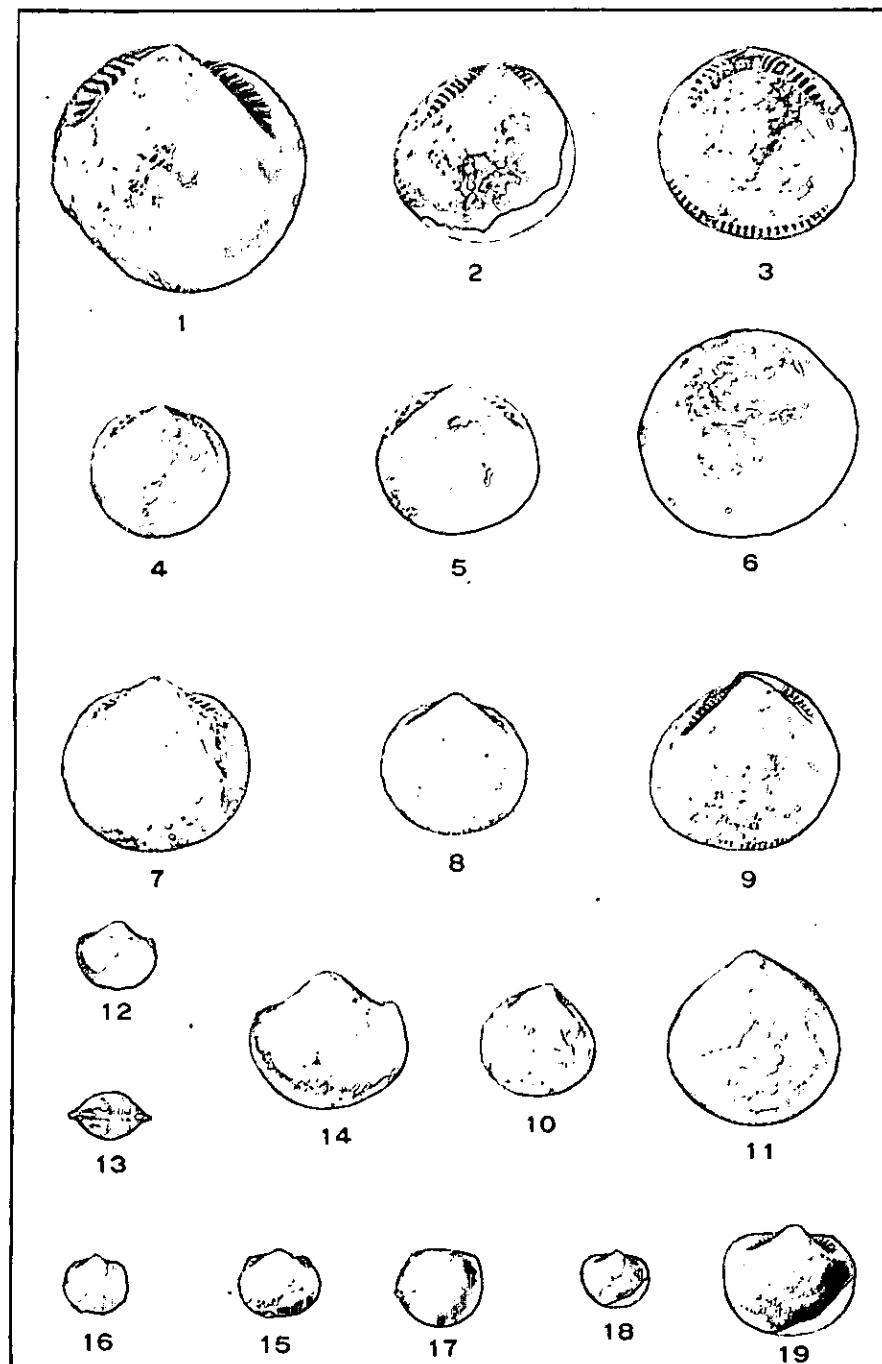
Cliffwood clay; Cliffwood Point, (105).

16-18. Views of the internal casts of three single valves.

19. View of same specimen shown in fig. 18. (x2).

Woodbury clay; Lorillard, (102).

PLATE XXXV.

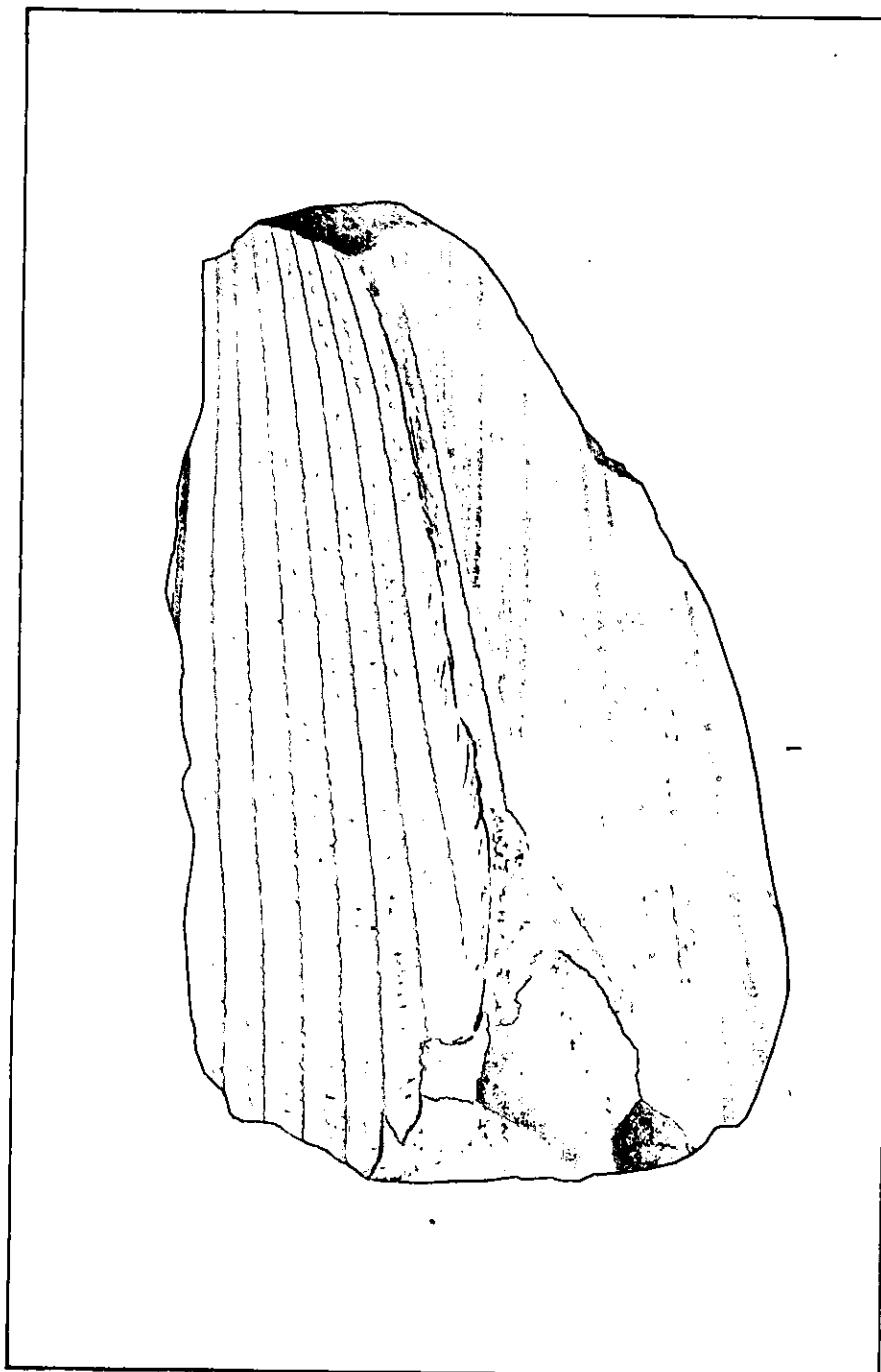


PELECYPODA.
6* PAL

EXPLANATION OF PLATE XXXVI.

PINNA LAQUEATA Conrad, p. 419
1. Lateral view of a large, imperfect, right valve. (After Whitfield.)
Merchantville clay-marl; Burlington.

PLATE XXXVI.

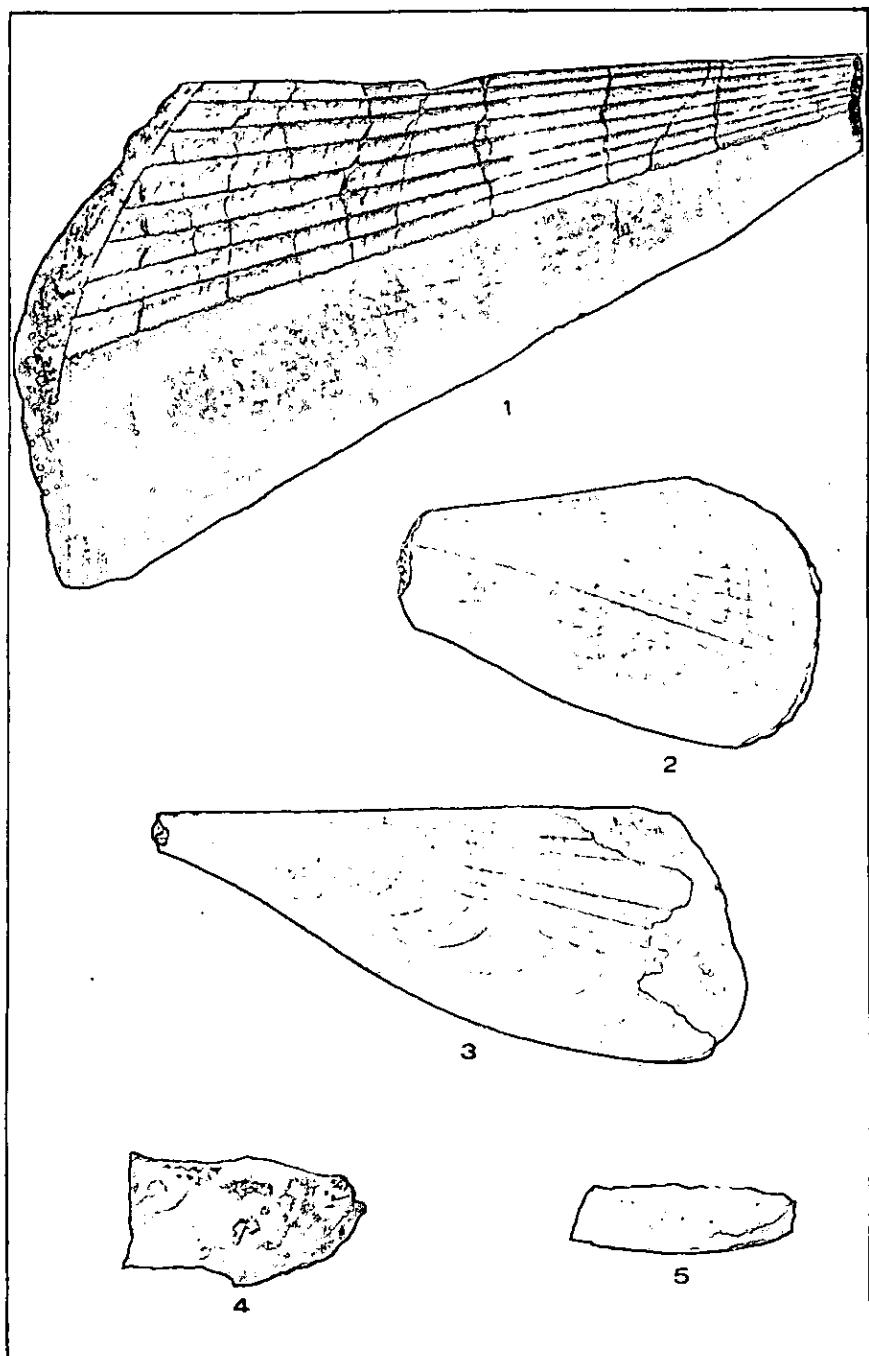


PELECYPODA.

EXPLANATION OF PLATE XXXVII.

- PINNA LAQUEATA Conrad, p. 419
 1. Lateral view of a right valve, incomplete anteriorly. (After Whitfield.)
- PINNA ROSTRIFORMIS Morton, p. 420
 2-3. Lateral views of two imperfect left valves. (After Whitfield.)
 Vincentown limesand; Timber Creek.
- GERVILLIOPSIS ENSIFORMIS (Conrad), p. 421
 4. View of an incomplete internal cast from the right side.
 Navesink marl; near Freehold, (133).
 5. A similar view of a smaller specimen.
 Navesink marl; Mullica Hill, (169).

PLATE XXXVII.

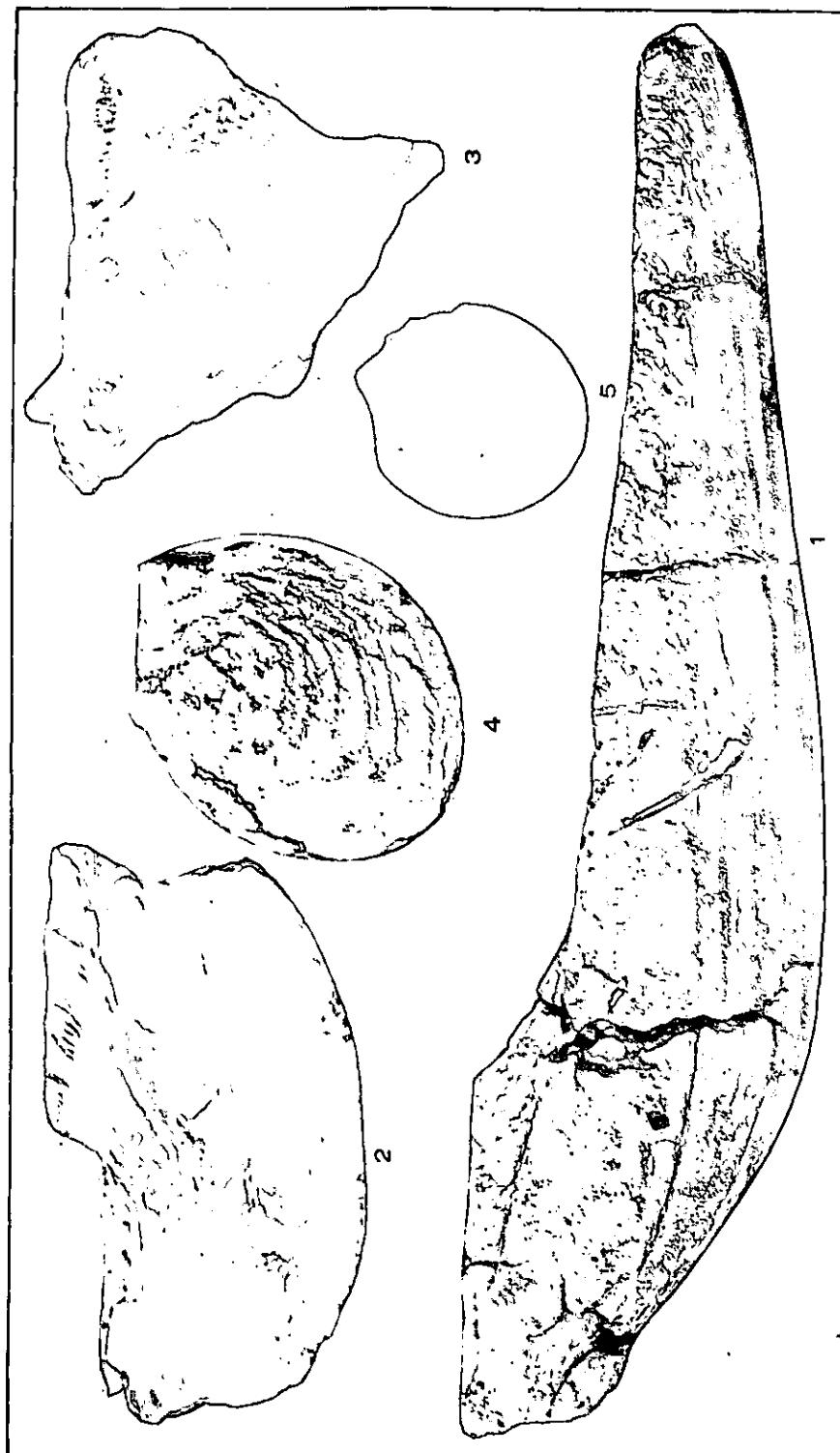


PELECYPODA.

EXPLANATION OF PLATE XXXVIII.

- GERVILLIOPSIS ENSIFORMIS. (Conrad). p. 421
1. A nearly complete left valve.
2. Internal view of a less complete valve.
Marshalltown clay-marl; Woodbury.
3. View of a large, imperfect internal cast.
Marshalltown clay-marl?; Woodbury?
- INOCERAMUS PROBLIQUA Whitfield, p. 428
4. The type specimen.
Navesink marl; Holmdel.
- INOCERAMUS ? PEROVALIS Conrad.
5. View of the right side of an internal cast. The type speci-
men. (After Whitfield.)

PLATE XXXVIII.



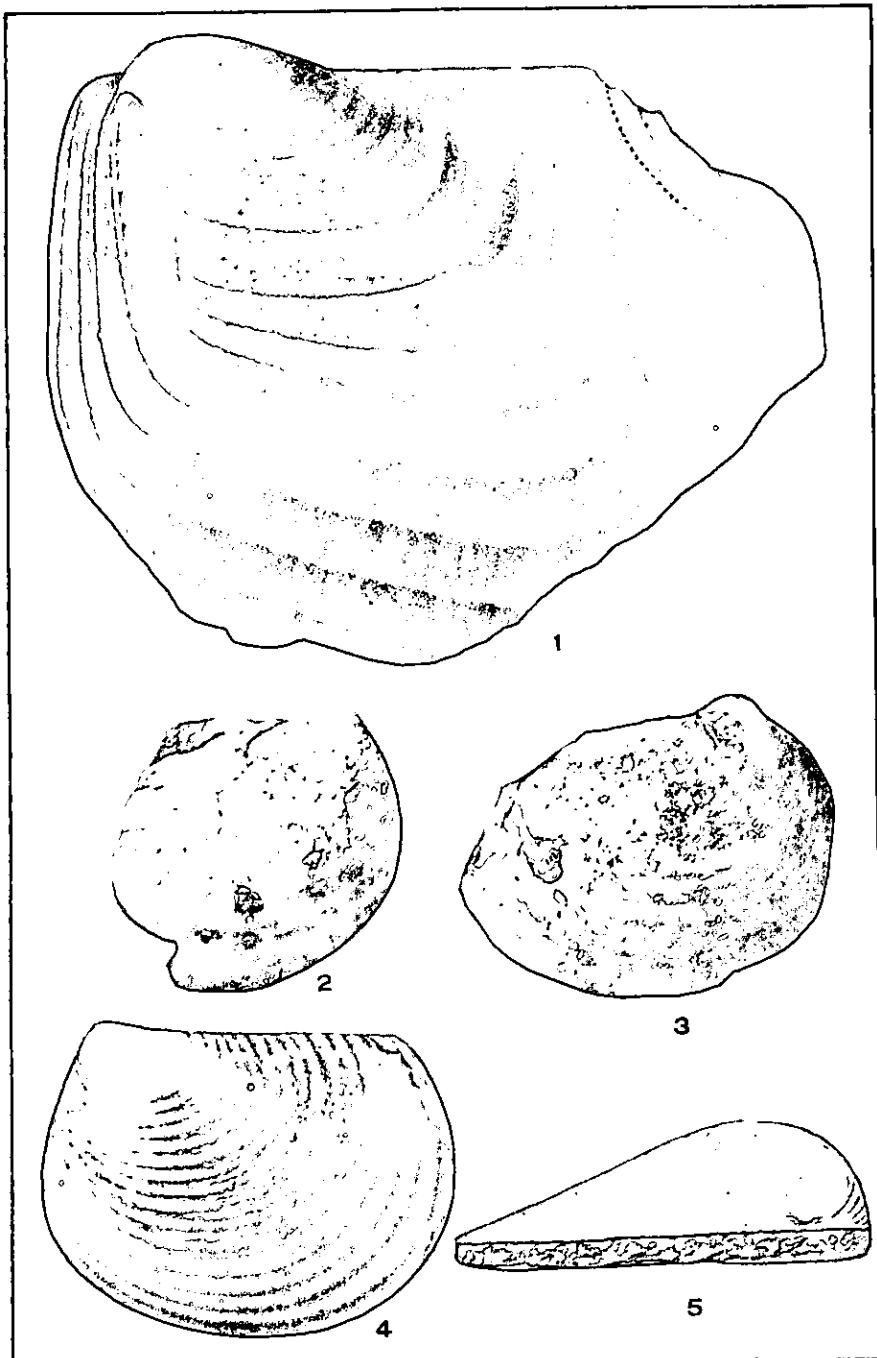
PELECYPODA.

NEW JERSEY GEOLOGICAL SURVEY

EXPLANATION OF PLATE XXXIX.

- INOERAMUS QUADRANS Whitfield, p. 426
1. View of the type specimen. (After Whitfield.)
Merchantville clay-marl?; near Burlington.
- INOERAMUS CONFERTIM-ANNULATUS Roemer, p. 427
2. View of an incomplete specimen.
Merchantville clay-marl; near Matawan, (100⁸).
3. View of an incomplete specimen illustrated by Whitfield.
Navesink marl; Holmdel.
4-5. Two views of a left valve. (After Whitfield.)
Navesink marl; Marlboro.

PLATE XXXIX.



PELECYPODA.

EXPLANATION OF PLATE XL.

INCERAMUS PROXIMUS Tuomey, p. 424

1-2. Views of two incomplete specimens. (After Whitfield.)

Merchantville clay-marl; Keyport.

3. An incomplete specimen illustrated by Whitfield.

Wenonah sand; Holmdel.

4. View of an incomplete left valve.

Merchantville clay-marl; near Jamesburg, (141).

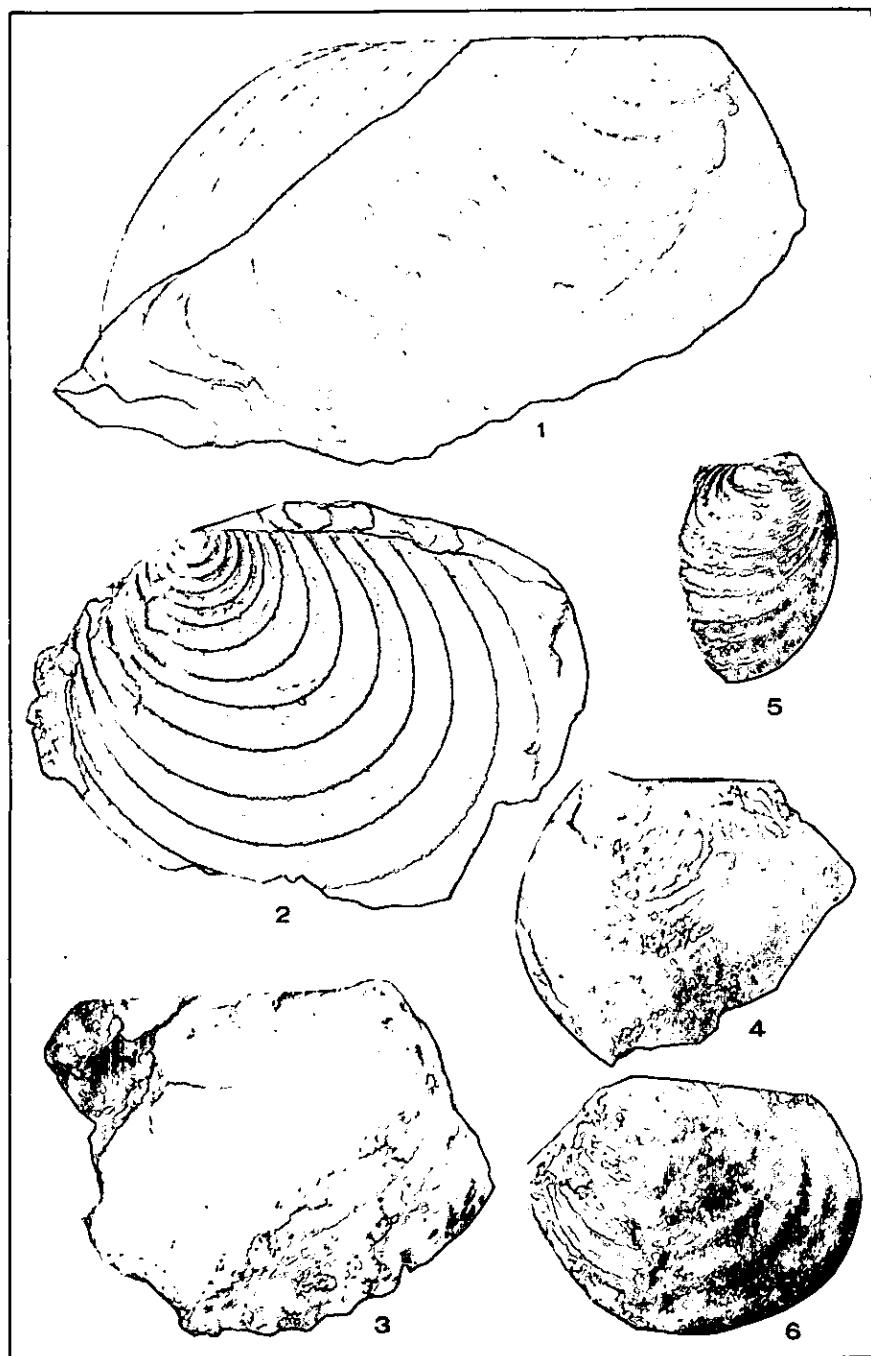
5. View of an incomplete right valve preserving the shell.

Marshalltown clay-marl; near Swedesboro, (177).

INOCERAMUS sp.

6. View of an incomplete left valve.

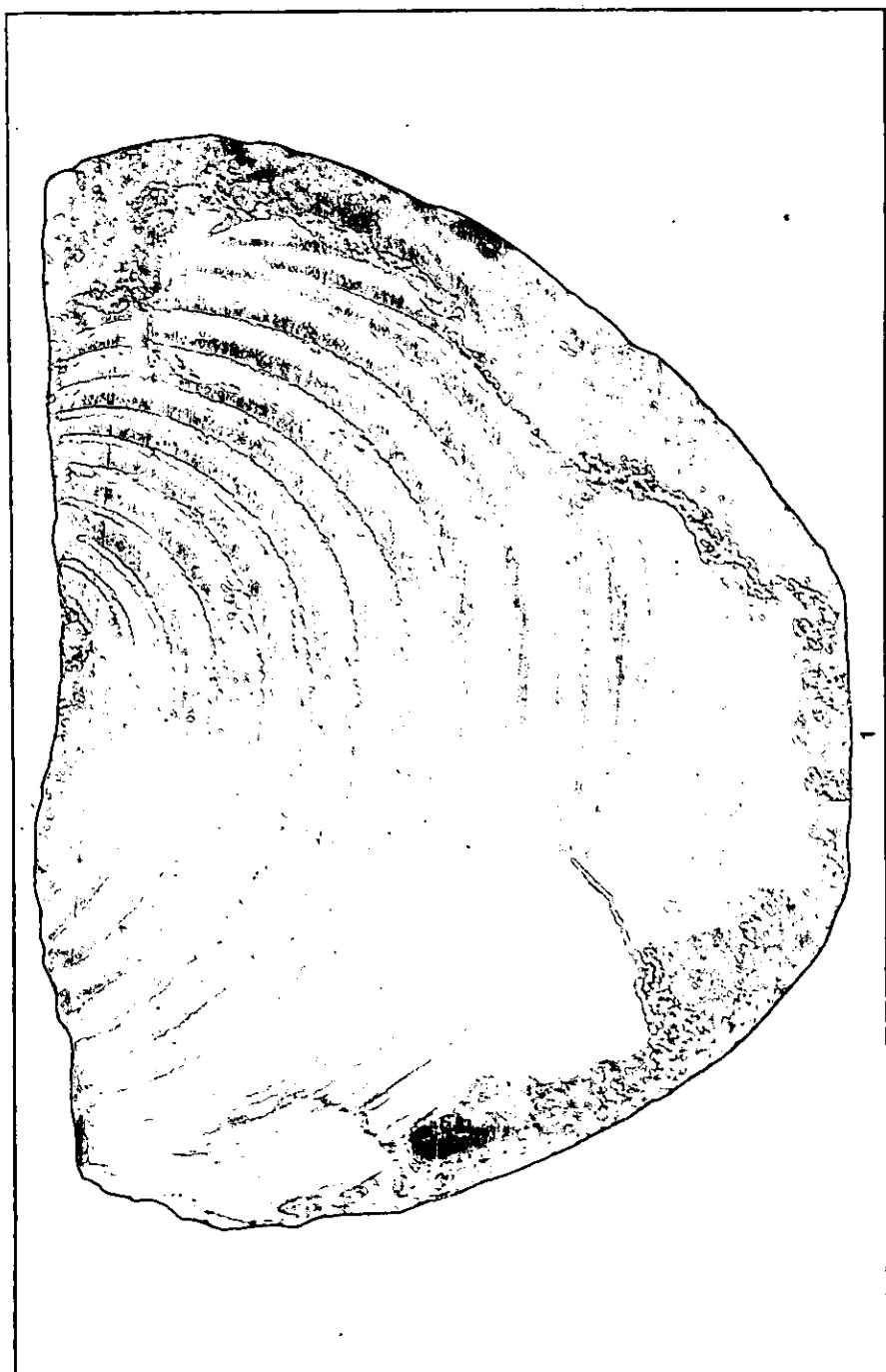
Navesink marl; Crosswicks Creek, (147⁴).



PELECYPODA.

EXPLANATION OF PLATE XLI.

- INCERAMUS PROXIMUS Tuomey, p. 424
1. A very large, incomplete specimen.
Merchantville clay-marl; Lenola, (163).

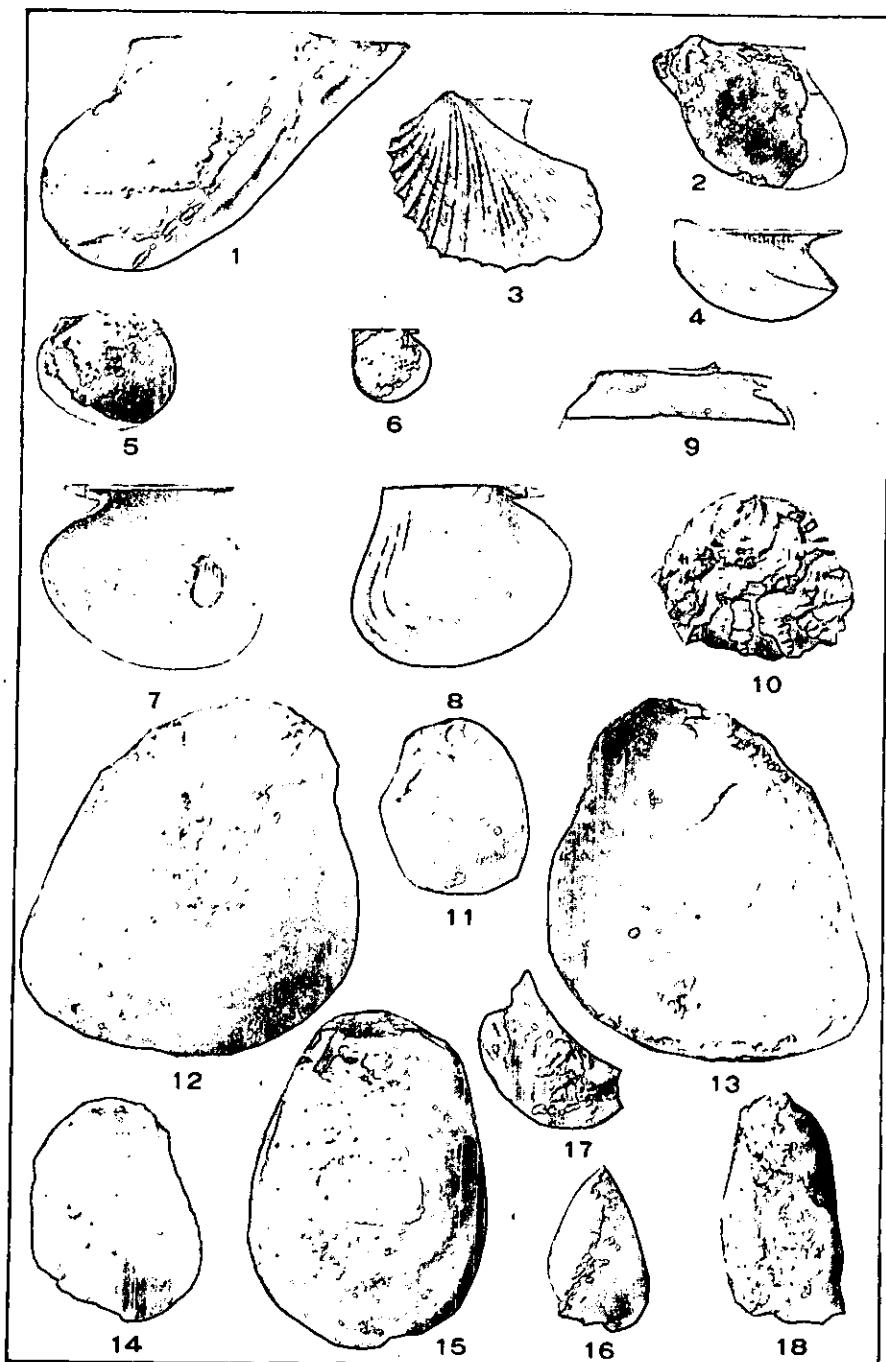


PELECYPODA.

EXPLANATION OF PLATE XLII.

- PTERIA PETROSA (Conrad), p. 429
 1. A complete internal cast of the right valve.
Cliffwood clay; near Matawan, (189).
 2. An incomplete internal cast of a left valve.
Wenonah sand; near Marlboro, (130).
- PTERIA LARIPES (Morton), p. 431
 3. View of a left valve. (After Whitfield.)
- PTERIA NAVICULA Whitfield, p. 432
 4. View of the type specimen. (After Whitfield.)
Woodbury clay; Haddonfield, (183).
- MELEAGRINELLA ABRUPTA (Conrad), p. 433
 5-6. Views of two internal casts, a left valve and a right valve.
Navesink marl; near Holmdel, (128³).
 7-8. Internal and external views of a nearly complete right valve,
 (x2). (After Whitfield.)
 9. The hinge of a left valve, (x2). (After Whitfield.)
Navesink marl; Freehold.
- OSTREA PANDA Morton, p. 437
 10. View of a nearly perfect lower valve.
Marshalltown clay-marl; near Swedesboro, (180).
- OSTREA CRETACEA Morton, p. 434
 11. A nearly complete internal cast of the lower valve.
Cliffwood clay; Cliffwood Point (105).
- OSTREA CRÉNULIMARGINATA Gabb, p. 441
 12-13. External and internal views of a complete single valve, illus-
 trated by Whitfield.
Navesink marl; Marlboro.
- OSTREA sp.
 14. View of an internal cast of a lower valve.
Vincentown sand; near Deal, (122).
- OSTREA SUBSPATULATA Forbes, p. 440
 15. View of an internal cast of a lower valve.
Wenonah sand; Crawfords Corner (126³).
- OSTREA PLUMOSA Morton, p. 439
 16. An upper valve preserving the shell.
 17. A lower valve supposed to belong to this species.
Marshalltown clay-marl; near Swedesboro, (177).
 18. Internal cast of a lower valve.
Wenonah sand; Crawfords Corner (126³).

PLATE XLII.

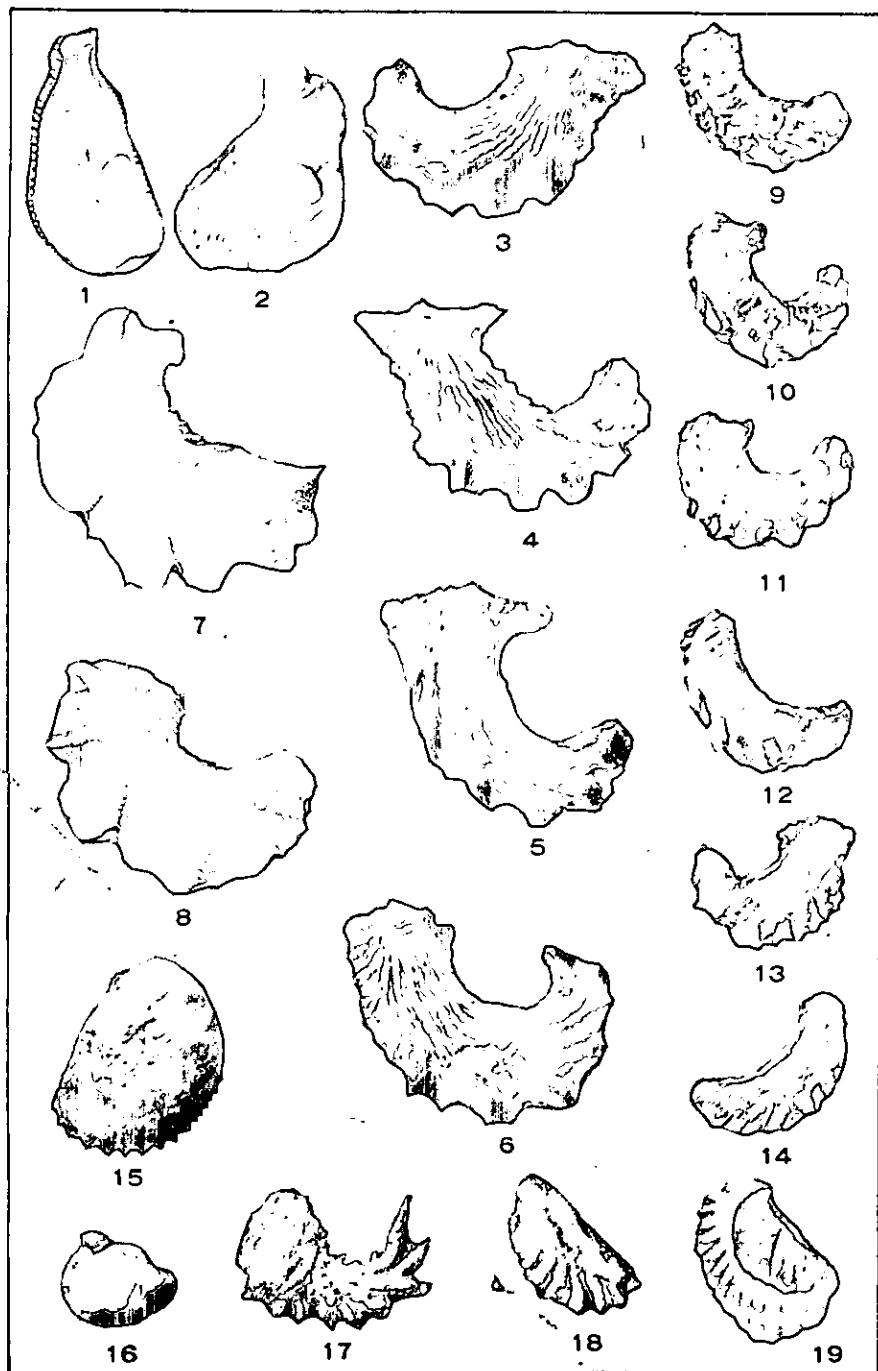


PELECYPODA.

EXPLANATION OF PLATE XLIII.

- OSTREA DENTICULIFERA Conrad, p. 436
1-2. Internal and external views of two nearly complete valves,
identified by Conrad. (After Whitfield.)
Woodbury clay; Haddonfield, (183).
- OSTREA FALCATA Morton, p. 444
3-6. Views of four nearly perfect single valves.
Marshalltown clay-marl; near Swedesboro, (177).
- OSTREA NASUTA Morton, p. 447
7-8. Views of two nearly complete single valves. (After Whit-
field.)
Navesink marl.
- OSTREA MESENTERICA Morton, p. 446
9-14. Views of six nearly perfect single valves.
Navesink marl; near Holmdel, (127^b).
- OSTREA MONMOUTHENSIS n. sp., p. 442
15. View of the type specimen.
Navesink marl; near Crawfords Corner, (126^c).
- OSTREA CONGESTA Conrad, p. 435
16. View of an internal cast of the attached valve.
Cliffwood clay; Cliffwood Point, (105).
- OSTREA TECTICOSTA Gabb, p. 443
17-18. Views of two casts of single valves referred to this species.
Wenonah sand; near Marlboro, (130).
19. Exterior view of the type specimen. (After Whitfield.)

PLATE XLIII.



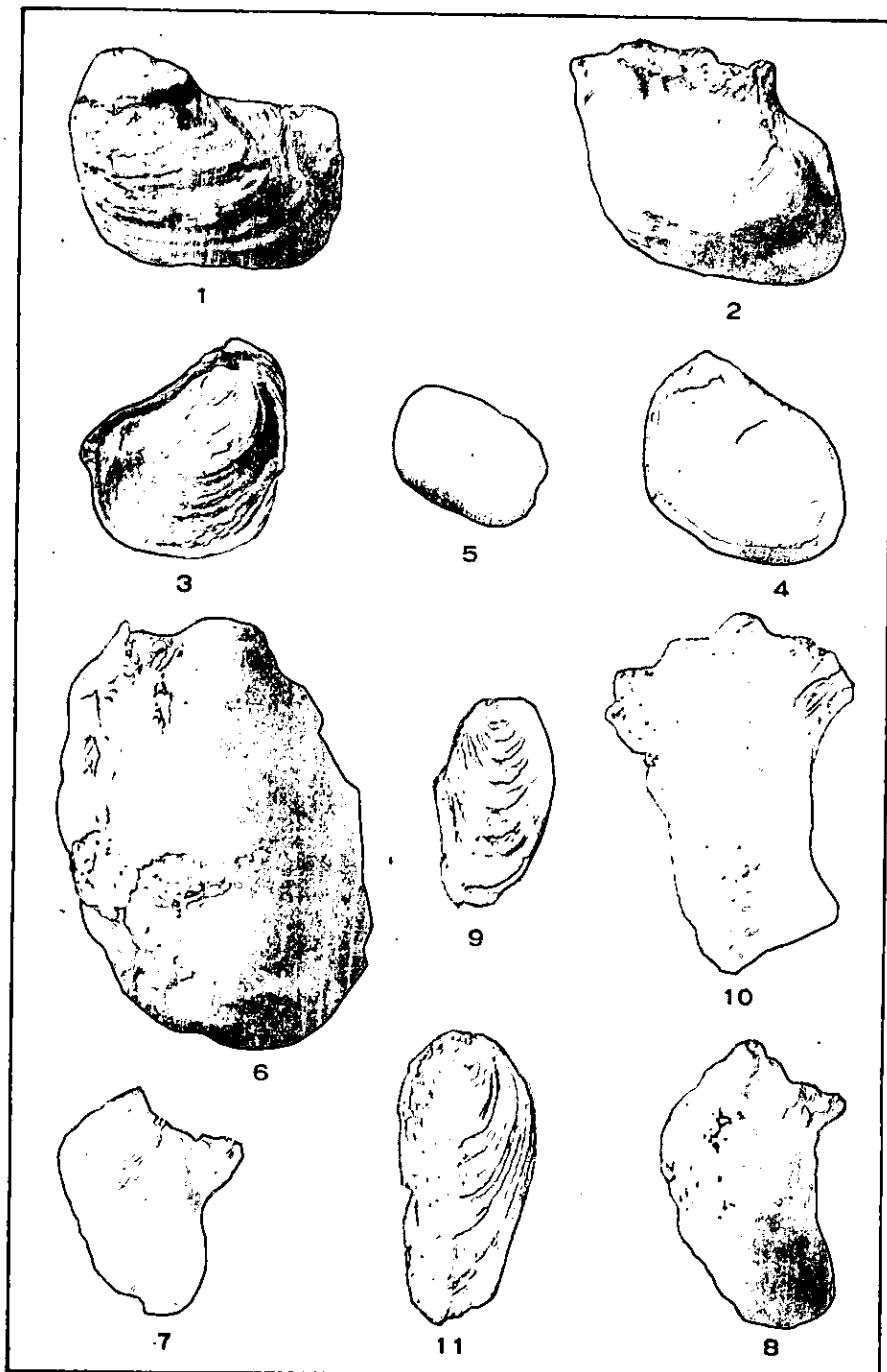
7* PAL

PELECYPODA.

EXPLANATION OF PLATE XLIV.

- OSTREA BRYANA Gabb, p. 448
 1-2. Views of two lower valves.
 3. View of the upper side of a complete individual.
 4. View of the interior of an upper valve.
 Manasquan marl; near Vincentown, (159).
 5. An internal cast.
 Manasquan marl; Farmingdale, (138).
- CRYPHAEOSTREA VOMER (Morton), p. 455
 6-9. Views of three lower valves of different forms, and one upper
 valve.
 Marshalltown clay-marl; near Wedesboro, (177).
 10-11. Views of a lower and an upper valve.
 Hornerstown marl; near Woodstown, (181).

PLATE XLIV.



PELECYPODA.

EXPLANATION OF PLATE XLV.

- GRYPHAEA CONVEXA (Say), p. 451
1-2. Views of the opposite sides of a specimen retaining both
valves.
Navesink marl; Middletown, (113).

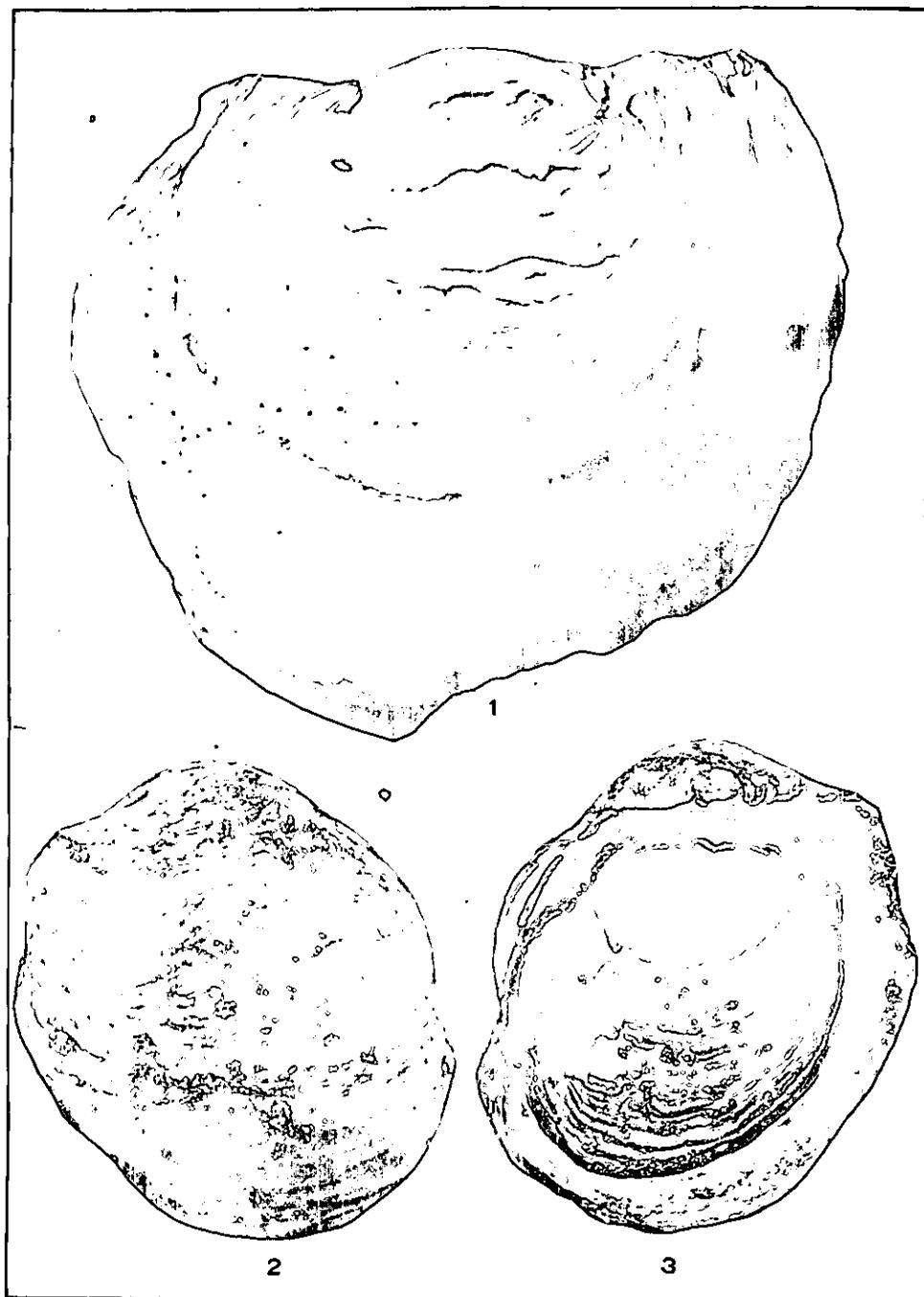


PELECYPODA.

EXPLANATION OF PLATE XLVI.

- GRYPHAEA MUTABILIS Morton, p. 452
1. External view of a nearly complete valve.
Marshalltown clay-marl; near Swedesboro, (180).
- GRYPHAEA DISSIMILARIS n. sp., p. 453
3-4. Two views of a nearly complete individual retaining both valves.
Hornerstown marl; near Woodstown, (181).

PLATE XLVI.

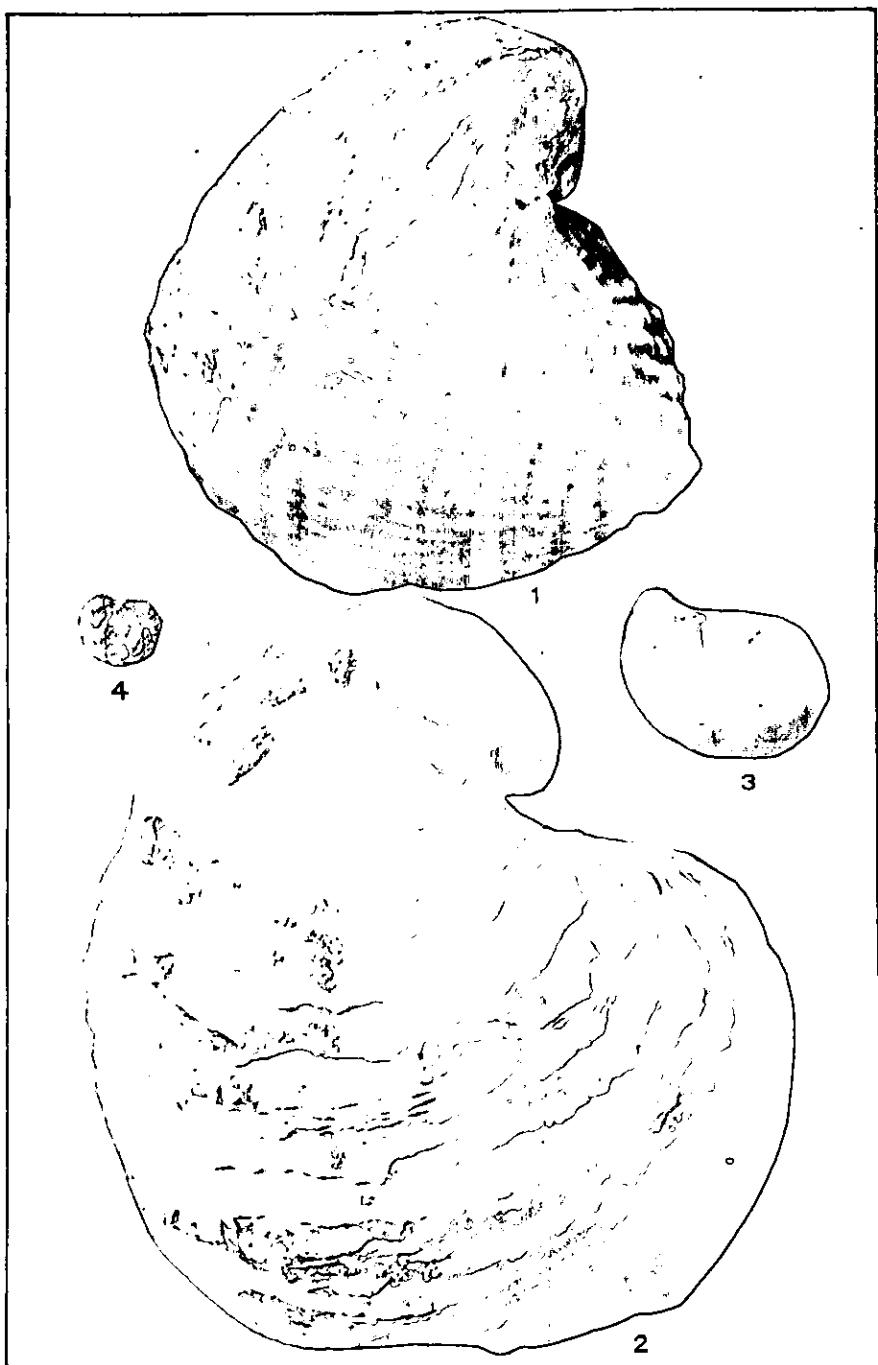


PELECYPODA.

EXPLANATION OF PLATE XLVII.

- EXOGYRA COSTATA Say, p. 456
1. View of a nearly perfect valve.
Navesink marl; Crosswicks Creek, (146°).
- EXOGYRA PONDEROSA Roemer, p. 458
2. View of a nearly perfect valve.
Marshalltown clay-marl; near Swedesboro, (177).
- EXOGYRA sp., p. 460
3. View of an internal cast of a lower valve.
Merchantville clay-marl; Lenola, (163).
- OSTREA CONGESTA Con., p. 435
4. View of the internal cast of an attached valve.
Cliffwood clay; Cliffwood Point, (105).

PLATE XLVII.

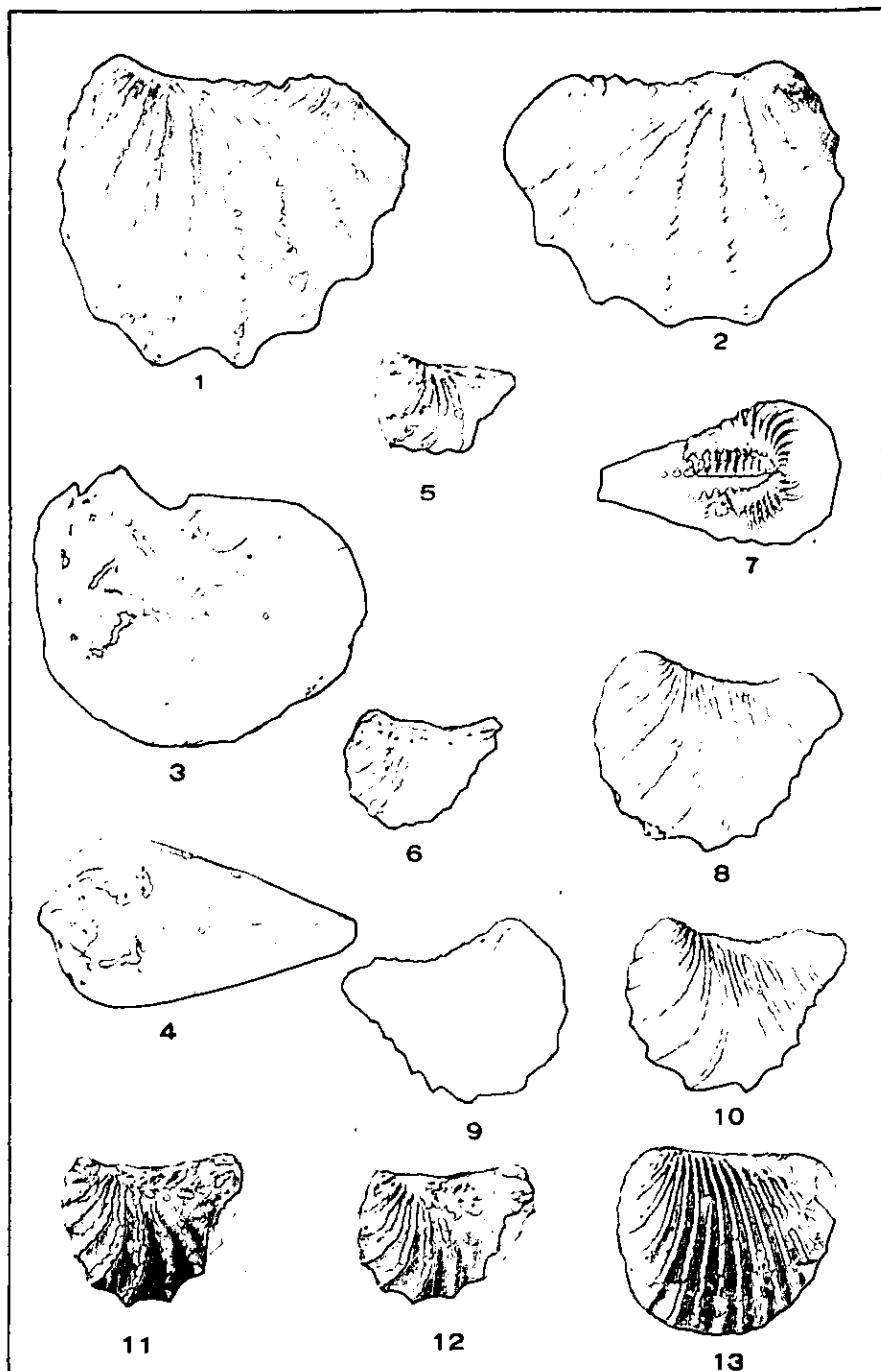


PELECYPODA.

EXPLANATION OF PLATE XLVIII.

- TRIGONIA THORACICA Morton, p. 460
1-2. Views of a left and a right valve.
Marshalltown clay-marl; near Swedesboro, (177).
3-4. Two views of an internal cast. The type of *T. mortoni*
Whitf.
Navesink marl; Freehold.
- TRIGONIA EUFAULENSIS Gabb, p. 462
5. View of an internal cast.
Wenonah sand; near Marlboro, (130).
6. View of an internal cast.
Merchantville clay-marl; Lenola, (163).
7-8. Two views of a complete individual from Alabama. (Coll.
U. S. Nat. Mus.)
9-10. Internal and external views of a left valve from Alabama.
(Coll. U. S. Nat. Mus.)
- TRIGONIA KUMMELI n. sp., p. 466
11-12. Views of two left valves, plaster casts taken from natural
moulds of the exterior.
Red Bank sand; Shrewsbury River, (116).
- TRIGONIA CERULIA Whitfield, p. 464
13. View of a left valve from the type locality.
Tinton beds; Beers Hill Cut, (129°).

PLATE XLVIII.

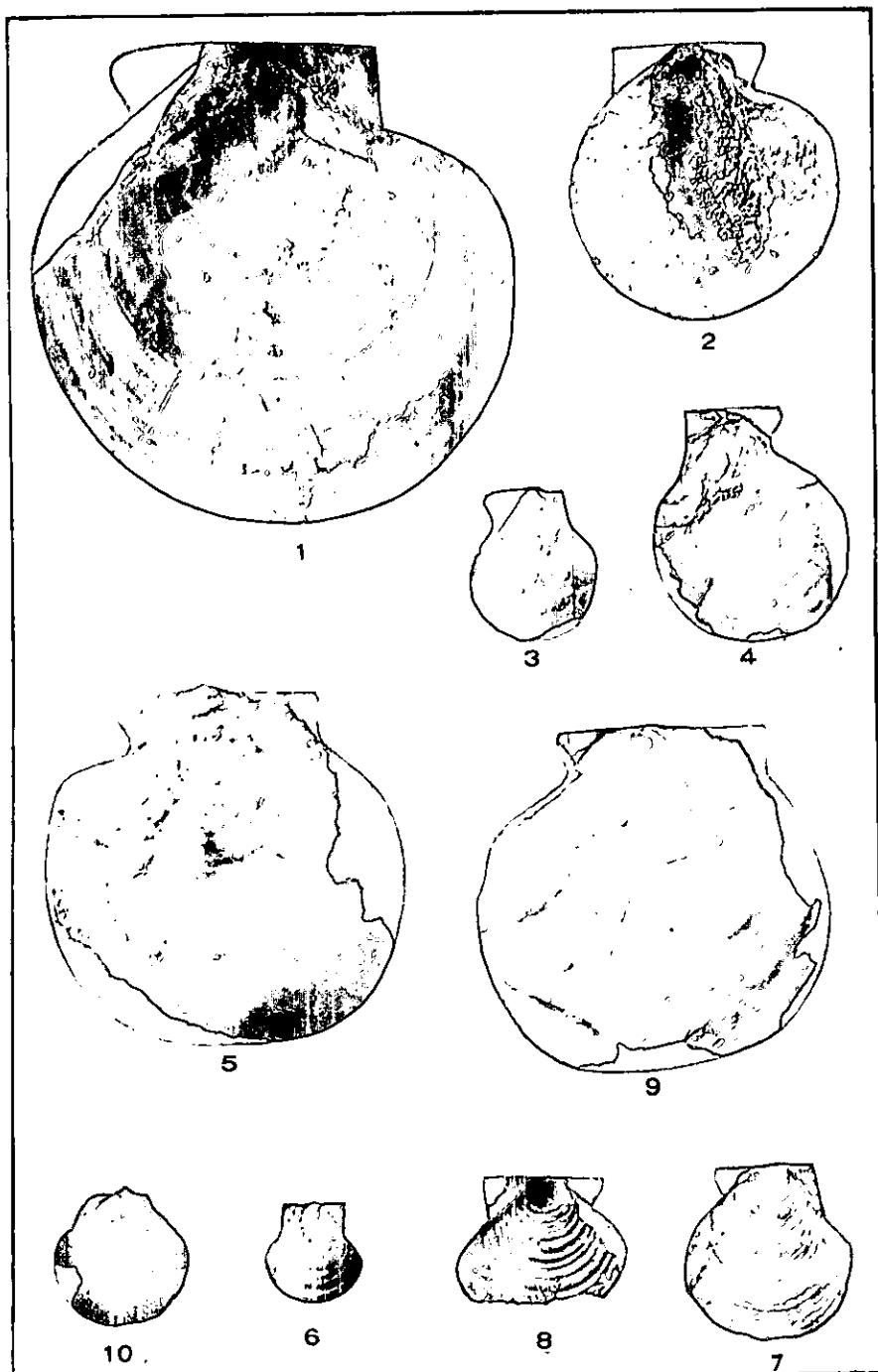


PELECYPODA.

EXPLANATION OF PLATE XLIX.

- PECTEN ARGILLENSIS Conrad, p. 472
1-2. Views of two nearly circular individuals illustrated by Whitfield.
Navesink marl; Freehold.
3-4. Views of two individual valves of normal form and size.
Internal casts.
Woodbury clay; Lorillard, (102).
- PECTEN BURLINTONENSIS Gabb, p. 470
5. A large internal cast of a single valve.
6. A small single valve of the form called *P. perlamellosus* by Whitfield.
Merchantville clay-marl; near Matawan, (101).
7-8. A cast of the interior and the natural impression of the exterior of a single valve.
Merchantville clay-marl; Lenola, (163).
9. A large internal cast of a single valve.
Woodbury clay; Lorillard, (102).
- PECTEN sp.
10. View of an internal cast.
Manasquan marl; Farmingdale, (138).

PLATE XLIX.

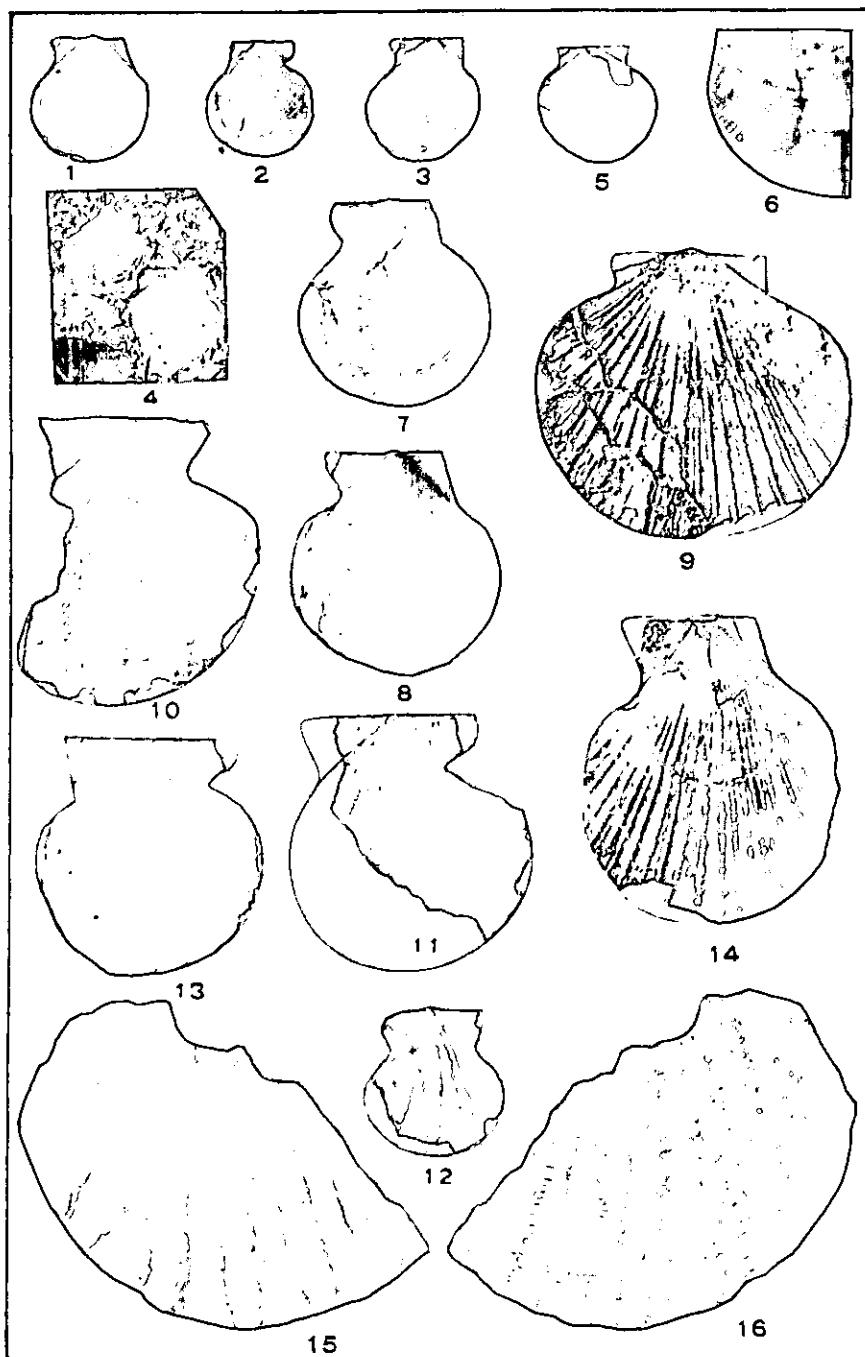


PELECYPODA.

EXPLANATION OF PLATE I.

- PECTEN CONRADI (Whitfield), p. 474
1-3. Views of the internal casts of three single valves.
4. The internal cast of one valve and the impression of the exterior of another.
Woodbury clay; Lorillard, (102).
- PECTEN PARVUS (Whitfield), p. 477
5. View of the type specimen, (x2).
6. View of the surface markings, (much enlarged).
Navesink marl; Frechold.
- PECTEN CLIFFWOODENSIS n. sp., p. 469
7-8. Views of two internal casts of single valves. The type specimens.
Cliffwood clay; Cliffwood Point, (105).
- PECTEN TENUITESTUS Gabb, p. 467
9. View of a squeeze taken from a natural mould of the exterior.
Navesink marl; near Walnford, (149).
- PECTEN QUINQUENARIA Conrad, p. 476
10-12. Views of three imperfect internal casts of separate valves.
Wenonah sand; near Marlboro, (130).
13. A nearly complete individual preserving the shell, from near Dumas, Mississippi. (Coll. U. S. Nat. Mus., No. 20723.)
- PECTEN WHITFIELDI n. sp., p. 468
14. View of the type specimen, figured by Whitfield as *P. tenuitestus* Gabb.
Navesink marl; Holmdel.
- PECTEN CRATICULUS Morton, p. 478
15-16. Two views of the type specimen. (After Whitfield.)
Navesink marl; Arneytown.

PLATE L.

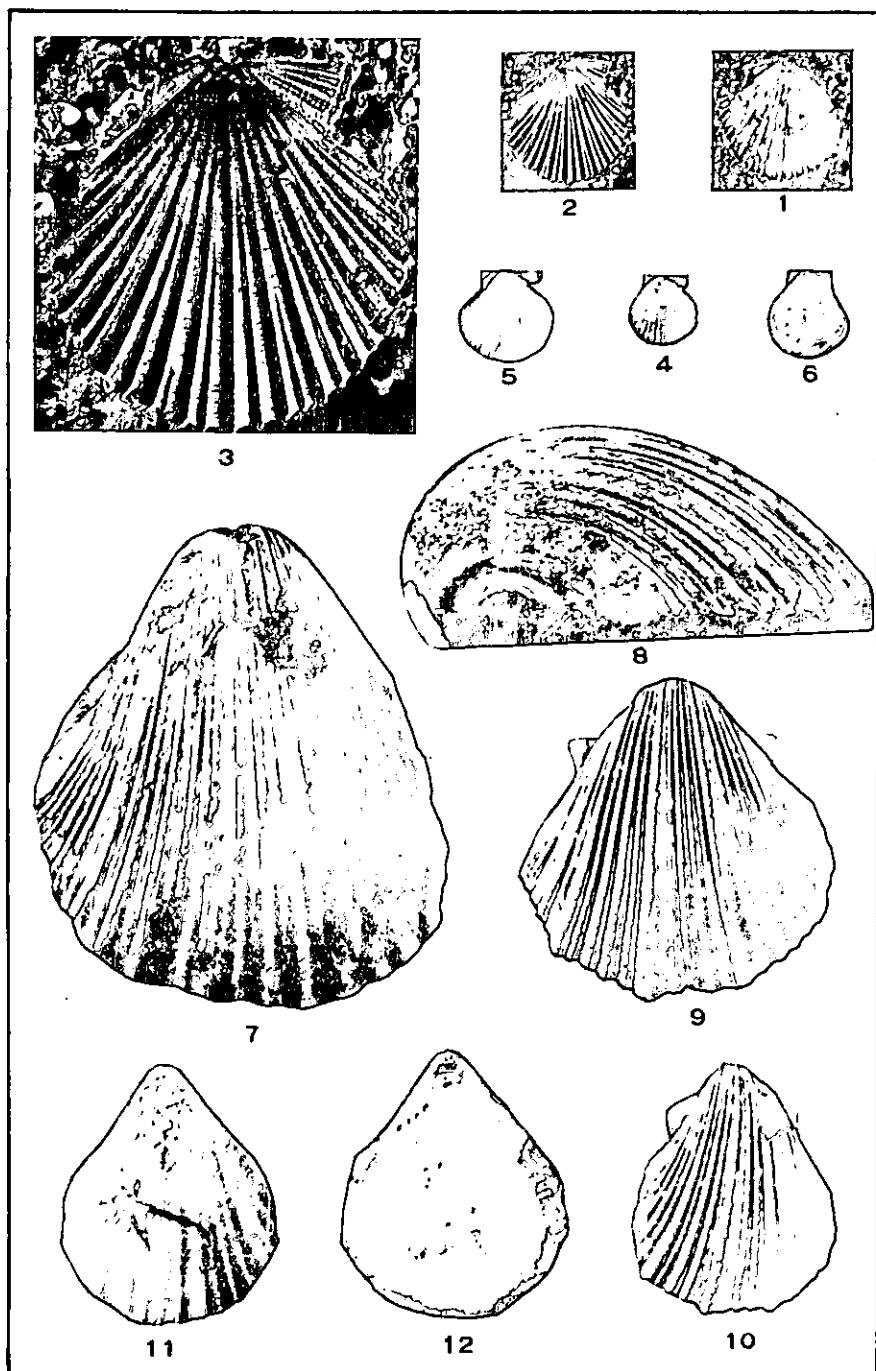


PELECYPODA.

EXPLANATION OF PLATE LI.

- PECTEN VENUSTUS Morton, p. 478
1-2. The internal and external surfaces of a natural mould of a single valve, (x2).
3. The same impression of the exterior, (x6).
Tinton beds; Tinton Falls, (110).
4. An internal cast of a single valve.
Red Bank sand; Red Bank, (116).
5. An internal cast illustrated by Whitfield.
Navesink marl.
- PECTEN SIMPLICIUS Conrad, p. 480
6. An internal cast of a single valve.
Tinton beds; Beers Hill Cut, (129^s).
- NEITHEA QUINQUECOSTATA (Sowerby), p. 481
7-8. Two views of a large internal cast of the convex valve. Illustrated by Whitfield.
Wenonah sand.
9-10. Two convex valves preserving the shell.
Marshalltown clay-marl; near Swedesboro, (177).
11-12. Upper and lower views of a nearly complete internal cast.
Merchantville clay-marl; Lenola, (163).

PLATE LI.



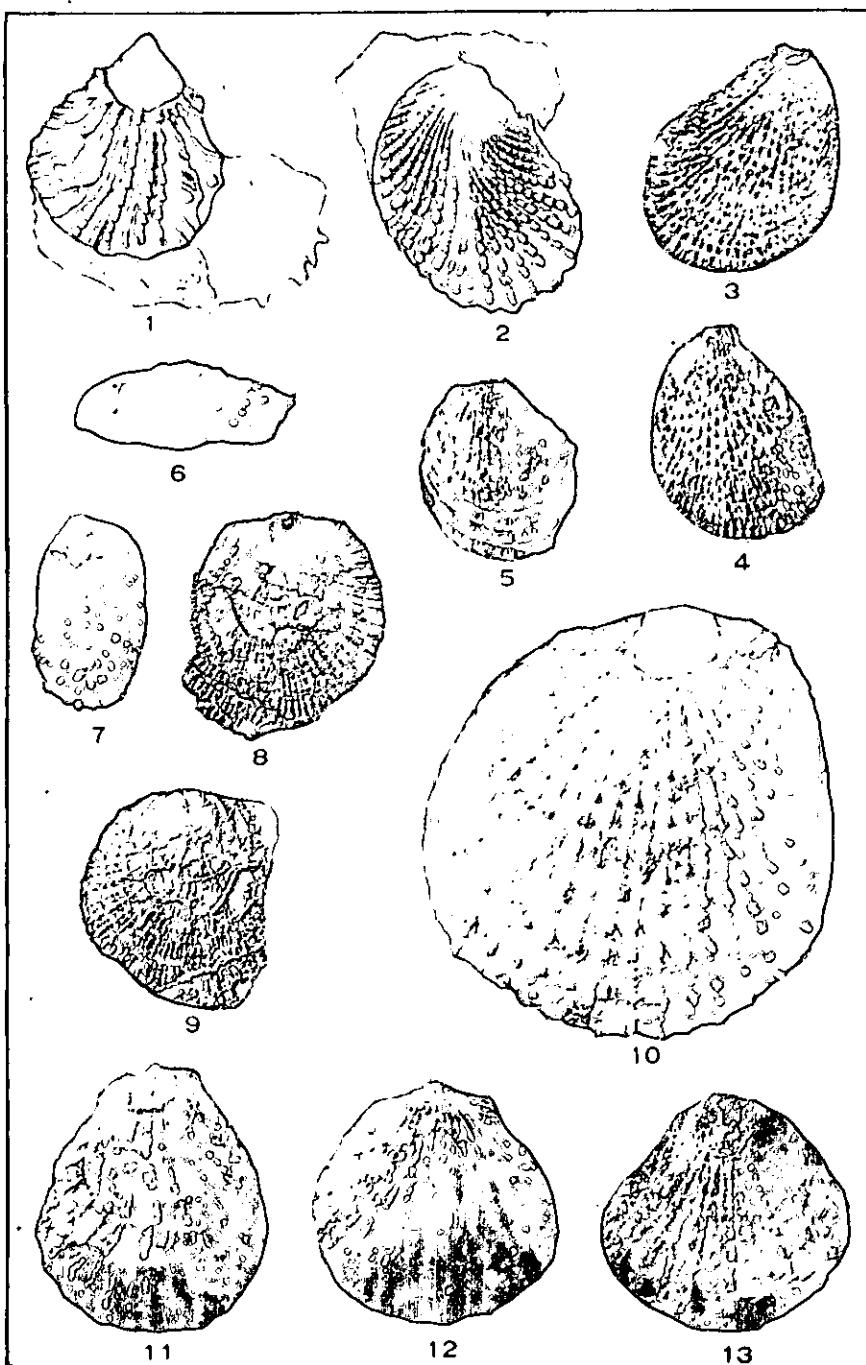
PELECYPODA.

8* PAL

EXPLANATION OF PLATE LII.

- PLICATULA URTICOSA (Morton), p. 484
1-2. Views of two individuals. (After Whitfield.)
Navesink marl; Freehold.
- PLICATULA MULLICAENSIS n. sp., p. 485
3. View of a natural mould of the exterior of an upper valve.
4. A squeeze taken from the same.
5. A much exfoliated upper valve.
Navesink marl; Mullica Hill, (169).
- LIROSCAPHA SQUAMOSA Conrad, p. 489
6-7. Two views of the type specimen, (x2).
Woodbury clay; Haddonfield, (183).
- PLICATULA WOODBURYENSIS n. sp., p. 485
8. View of a natural mould of the exterior of an upper valve.
9. A squeeze taken from the same.
Woodbury clay; Lorillard, (102).
- PARANOMIA SCABRA (Morton), p. 500
10. View of a large single valve illustrated by Whitfield.
Navesink marl; Upper Freehold.
- 11-12. Two upper valves.
13. A lower valve.
Marshalltown clay-marl; near Swedesboro, (177).

PLATE LII.



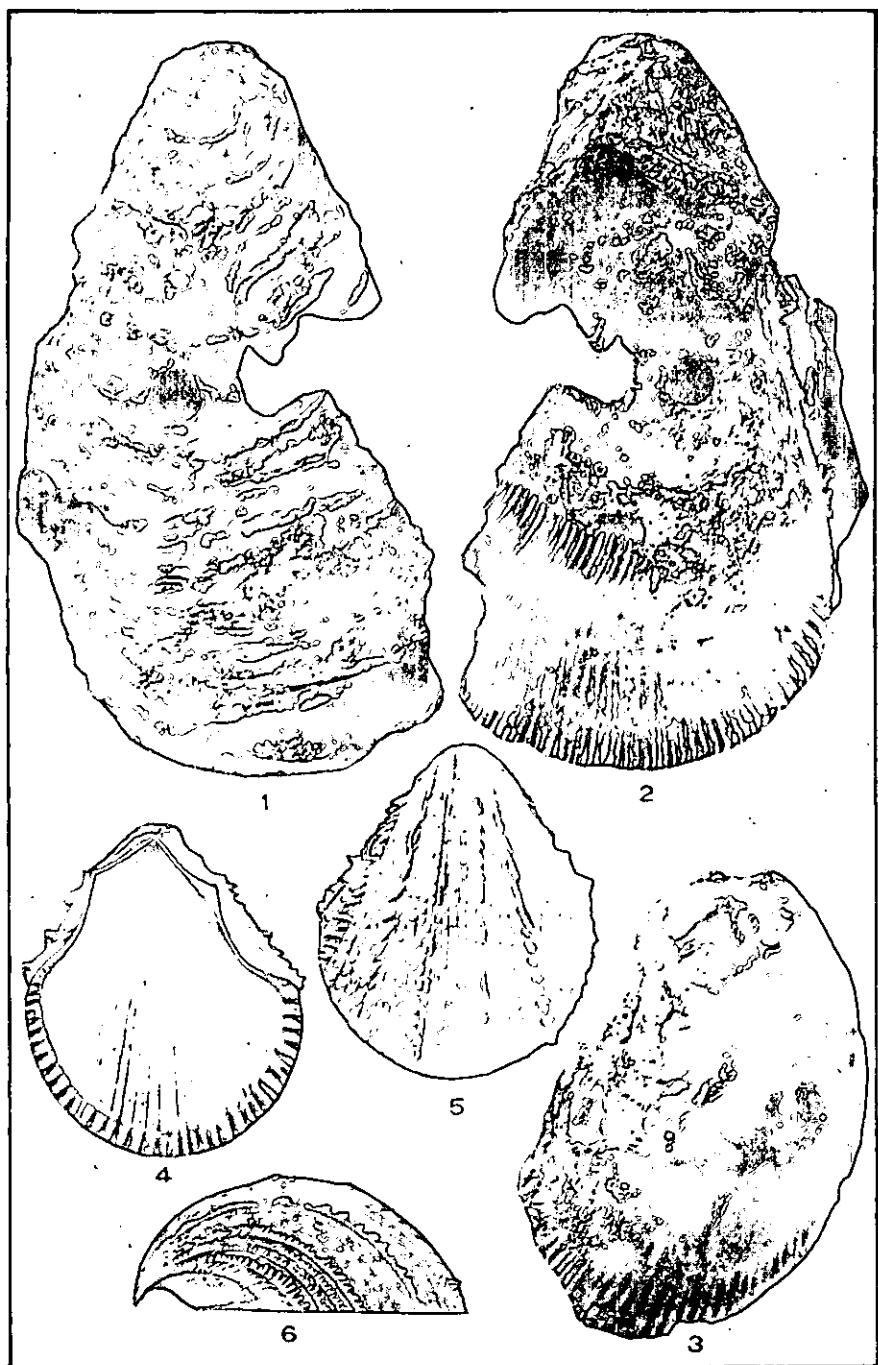
PELECYPODA.

EXPLANATION OF PLATE LIII.

- SONDYLUS GREGALIS (Morton), p. 486
1-2. Internal and external views of a large lower valve illustrated
by Whitfield.
3. View of an internal cast illustrated by Whitfield.
Navesink marl; Crosswicks Creek?
- DIANCHORA ECHINATA (Morton), p. 487
4-6. Three views of the type specimen, a nearly perfect lower
valve. (After Whitfield).
Navesink marl.

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PLATE LIII.

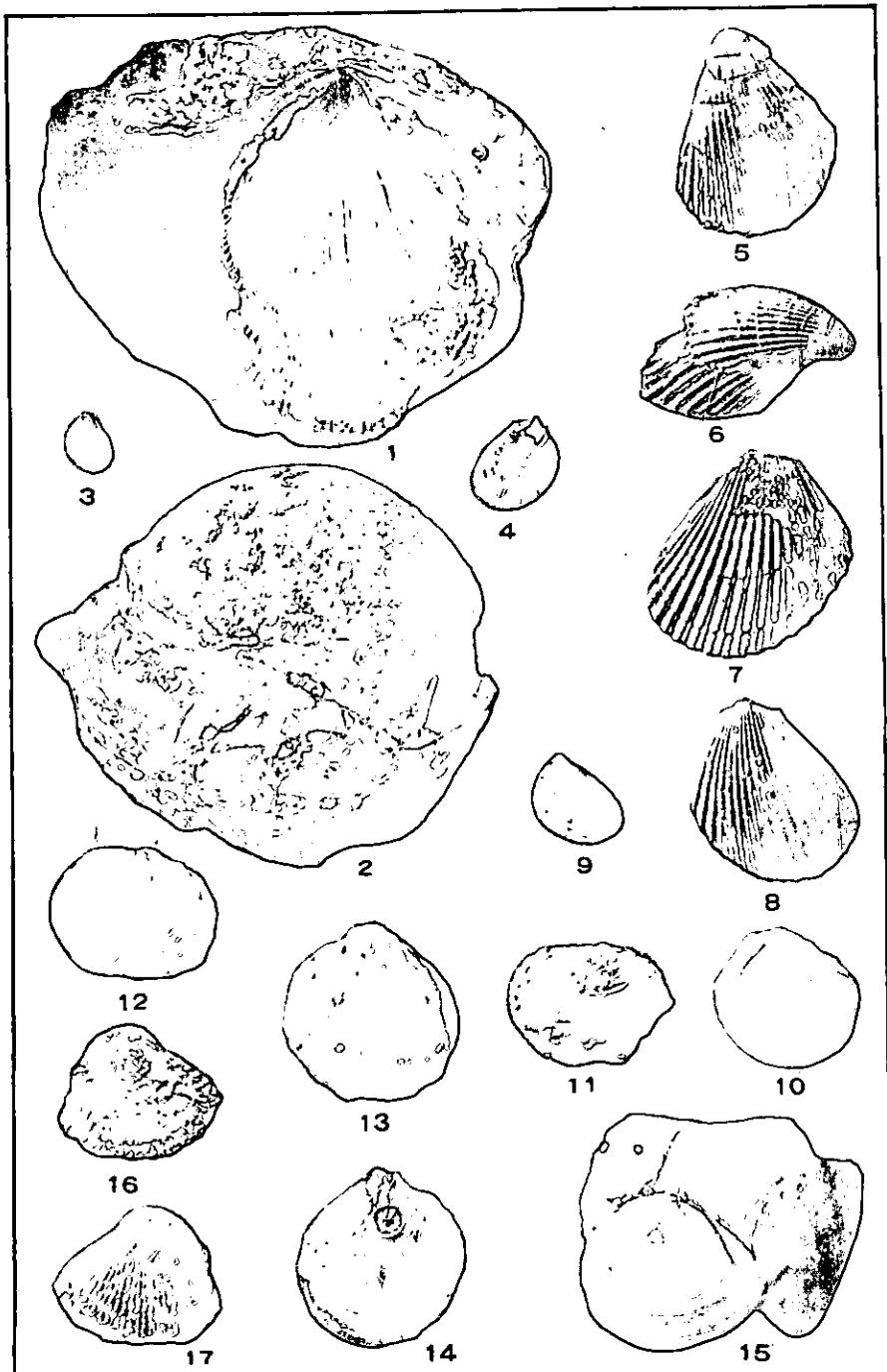


PELECYPODA.

EXPLANATION OF PLATE LIV.

- DIANCHORA ECHINATA (Morton), p. 487
 1. The interior of a lower valve attached to the inside of a *Gryphaca* shell.
 2. View of the hinge extremity of an individual attached to the interior of a *Gryphaca* shell, showing the convex outline of the cast of the upper valve.
Navesink marl.
- LIMA RETICULATA (Lyell and Forbes), p. 492
 3. A right valve preserving the shell.
Marshalltown clay-marl; near Swedesboro, (177).
 4. The internal cast of a right valve.
Navesink marl; near Walford, (149).
- LIMA LORILLARDENSIS n. sp., p. 492
 5. The left side of a crushed internal cast.
 6. Squeeze from the impression of the exterior of the same.
Woodbury clay; Lorillard, (102).
- LIMA PELAGICA (Morton), p. 489
 7. A nearly complete left valve.
Navesink marl; near Walford, (147).
- LIMA WHITFIELDI n. sp., p. 491
 8. A very perfect right valve, illustrated by Whitfield as *Radula pelagica*.
Navesink marl; near Holmdel.
- LIMA MONMOUTHENSIS (Whitfield), p. 494
 9. View of the type specimen, illustrated by Whitfield as *Nucula monmouthisensis*.
Wenonah sand; Marlboro.
- PLACOSTOMA ERECTA (Whitfield), p. 495
 10. View of a right valve preserving the shell.
Marshalltown clay-marl; near Swedesboro, (177).
- ANOMIA ARGENTARIA Morton, p. 496
 11. A cast of the interior of the upper valve.
Cliffwood clay; Cliffwood Point, (105).
 12. A specimen retaining the shell. Illustrated by Whitfield.
Navesink marl; Freehold.
- 13-14. Two views of a complete internal cast, the lower side showing the position of the perforation of the valve.
Merchantville clay-marl; Lenola, (163).
15. A group of specimens, retaining the shells. Illustrated by Whitfield as *A. tellinoides*.
Navesink marl; Freehold.
- ANOMIA RADIATA n. sp., p. 499
 16-17. Two views of the type specimen, a nearly complete internal cast. The view of the under side shows the position of the perforation of the valve.
Woodbury clay; Lorillard, (102).

PLATE LIV.

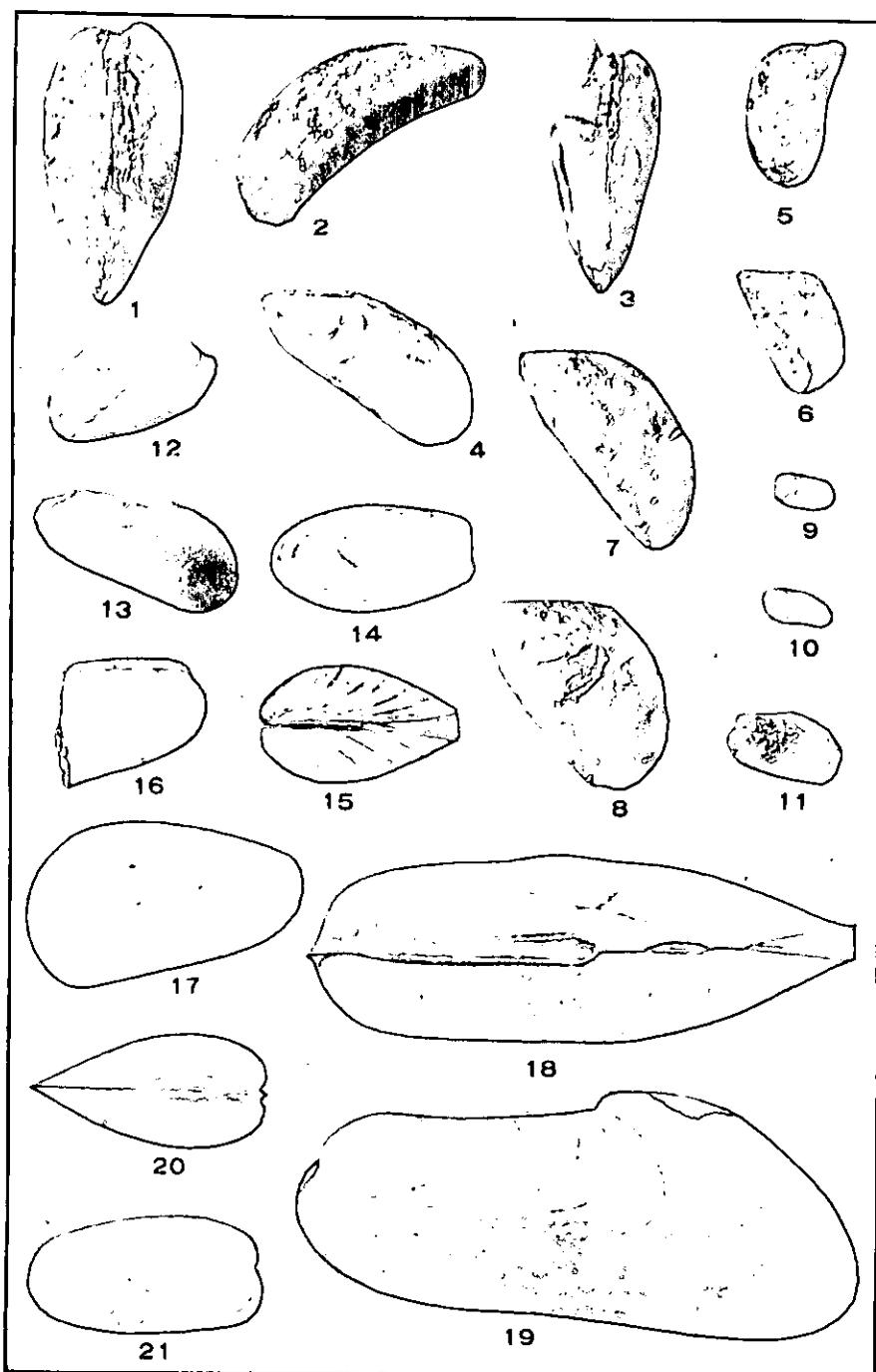


PELECYPODA.

EXPLANATION OF PLATE LV.

- MYTILUS SMOCKI** n. sp., p. 502
 1-2. Two views of a complete internal cast which retains some fragments of the shell.
Navesink marl; near Walnford, (149).
- 3-4. Two views of another complete internal cast.
Navesink marl; near Crawfords Corner, (126⁷).
- MYTILUS ORLIVIUS** Whitfield, p. 503
 5. The type specimen illustrated by Whitfield.
Wenonah sand; near Marlboro.
6. View of the internal cast of a left valve.
Wenonah sand; near Marlboro, (130).
- 7-8. Views of the internal casts of two left valves doubtfully referred to this species.
Cliffwood clay; Cliffwood Point, (105).
- MODIOLA MONMOUTHENSIS** n. sp., p. 504
 9-10. Views of two left valves. Internal casts.
Merchantville clay-marl; near Matawan, (101).
- MODIOLA WENONAH** n. sp., p. 507
 11. View of the type specimen.
Wenonah sand; near Marlboro, (130).
- MODIOLA JULIA** Lea, p. 506
 12-13. Views of two specimens, a right valve and a left valve.
Woodbury clay; Lorillard, (102).
- MODIOLA JOHNSONI** Whitfield, p. 509
 14-15. Two views, lateral and cardinal, of the type specimen.
 (After Whitfield.)
Manasquan marl; Farmingdale.
- MODIOLA OVATA** Gabb, p. 508
 16. Lateral view of a specimen imperfect posteriorly. (After Whitfield.)
 17. View of the right side of the type specimen. (After Whitfield.)
Vincentown formation; Timber Creek.
- MODIOLA BURLINGTONENSIS** Whitfield, p. 505
 18-19. Cardinal and lateral views of the type specimen. (After Whitfield.)
Merchantville clay-marl; Burlington.
- MODIOLA SUBINFLATA** Whitfield, p. 507
 20-21. Cardinal and lateral views of the type specimen, (x2).
 (After Whitfield.)
Hornersettown marl; near Mullica Hill.

PLATE LV.

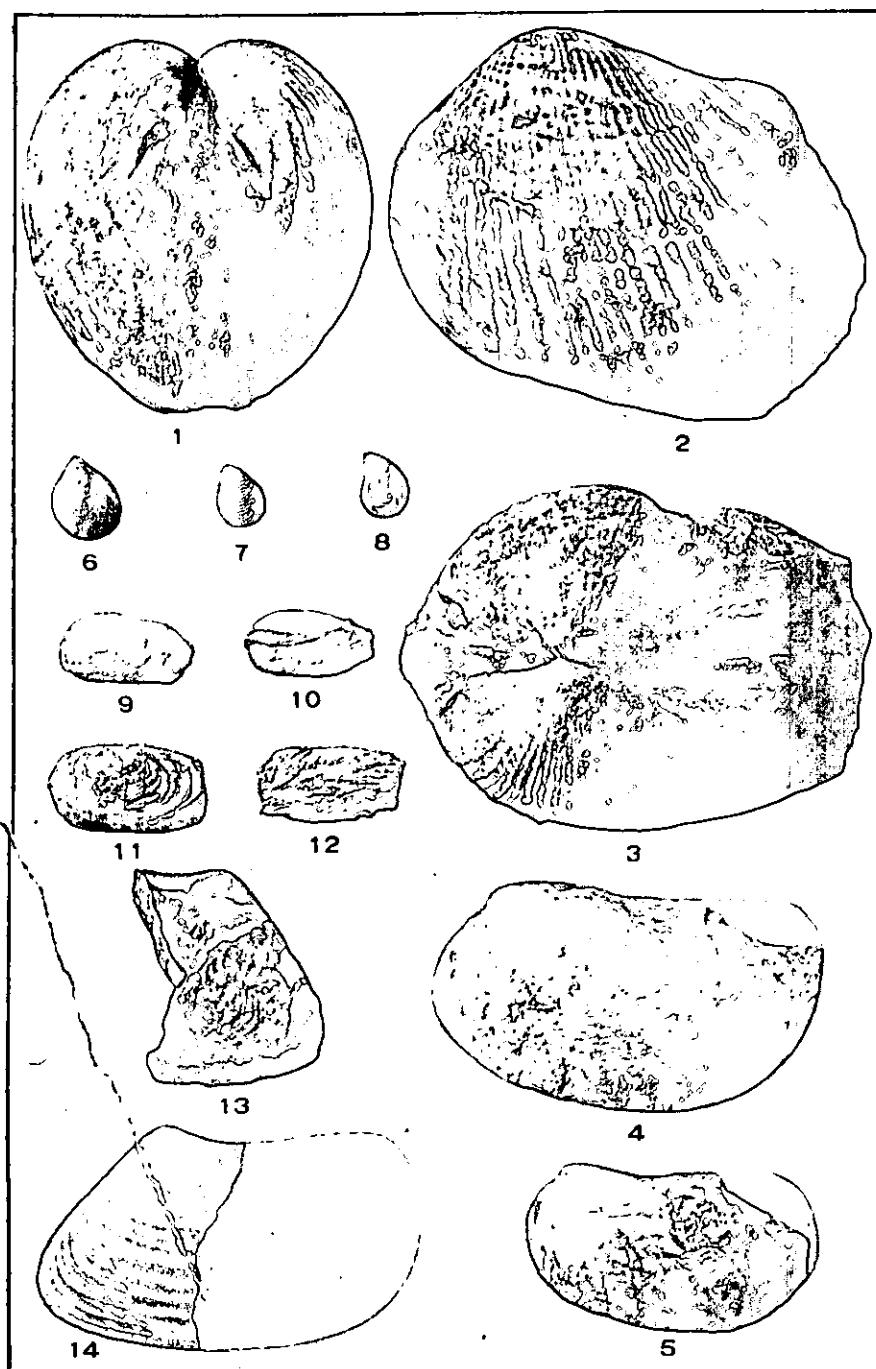


PELECYPODA.

EXPLANATION OF PLATE LVI.

- PHOLADOMYA OCCIDENTALIS Morton, p. 513
1-3. Anterior, lateral and cardinal views of a nearly complete internal cast.
Merchantville clay-marl; Lenola, (163).
- PHOLADOMYA ROEMERI Whitfield, p. 515
4. Lateral view of the type specimen.
Wenonah sand; near Marlboro.
5. Lateral view of a smaller individual.
Wenonah sand; near Marlboro, (130).
- CRENELLA ELEGANTULA Meek and Hayden, p. 511
6. Lateral view of an internal cast.
Tinton beds; Beers Hill Cut, (129^a).
- CRENELLA SERICA Conrad, p. 510
7-8. Lateral views of two single valves, (x2).
Marshalltown clay-marl; near Swedesboro, (177).
- LITHOPHAGA RIPLEYANA (Gabb), p. 512
9-10. Lateral and cardinal views of a rather smooth example.
Navesink marl; Mullica Hill, (169).
11-12. Lateral and cardinal views of a rougher example.
Navesink marl; near Walford, (148).
- CERCOMYA PECULIARIS (Conrad), p. 518
13-14. Two views of the type specimen. (After Whitfield.)
Navesink marl; Crosswicks Creek.

PLATE LVI.

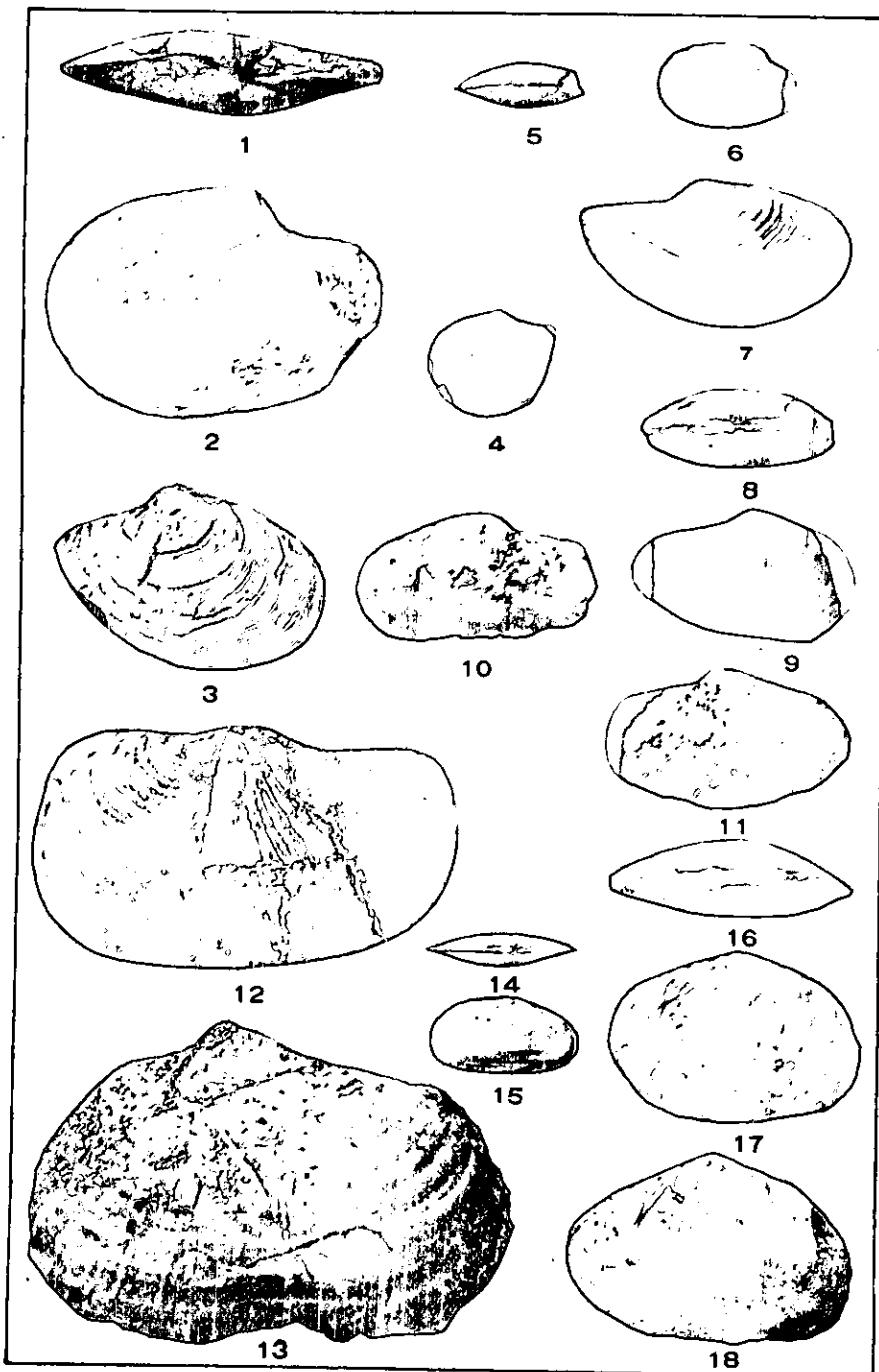


PELECYPODA.

EXPLANATION OF PLATE LVII.

- ANATINA JERSEYENSIS n. sp., p. 516
 1-2. Cardinal and lateral views of a nearly complete internal cast.
Merchantville clay-marl; near Jamesburg, (141).
 3. Lateral view of an internal cast.
Wenonah sand; near Marlboro, (130).
 4. Lateral view of a small, imperfect internal cast referred
 doubtfully to this species.
Woodbury clay; Lorillard, (102).
- ANATINA CLIFFWOODENSIS n. sp., p. 517
 5-6. Cardinal and lateral views of an internal cast.
Cliffwood clay; Cliffwood Point, (185).
- ANATINA JAMESBURGENSIS n. sp., p. 517
 7. Lateral view of the type specimen. The lower half restored.
Merchantville clay-marl; near Jamesburg, (139).
- PERIPLOMYA ELLIPTICA (Gabb), p. 522
 8-9. Cardinal and lateral views of a specimen illustrated by
 Whitfield.
Locality unknown.
 10. Lateral view of the type of *P. truncata* Whitf.
Manasquan marl; New Egypt.
 11. Lateral view of the type of *Veleda nasuta* Whitf.
Manasquan marl; New Egypt.
- ANATIMYA ANTERADIATA Conrad, p. 519
 12. Lateral view of a nearly complete cast of a single valve.
Wenonah sand; near Marlboro, (130).
- ANATIMYA LATA (Whitfield), p. 521
 13. Lateral view of the type of the species.
Wenonah sand; near Marlboro.
- CORIMYA? sp.
 14-15. Cardinal and lateral views of a very perfect internal cast.
Merchantville clay-marl; Lenola, (163).
- CORIMYA TENUIS Whitfield, p. 525
 16-17. Cardinal and lateral views of a nearly complete internal cast.
Navesink marl; Mullica Hill, (169).
 18. Lateral view of another nearly complete internal cast.
Navesink marl; near Crawfords Corner, (126').

PLATE LVII.

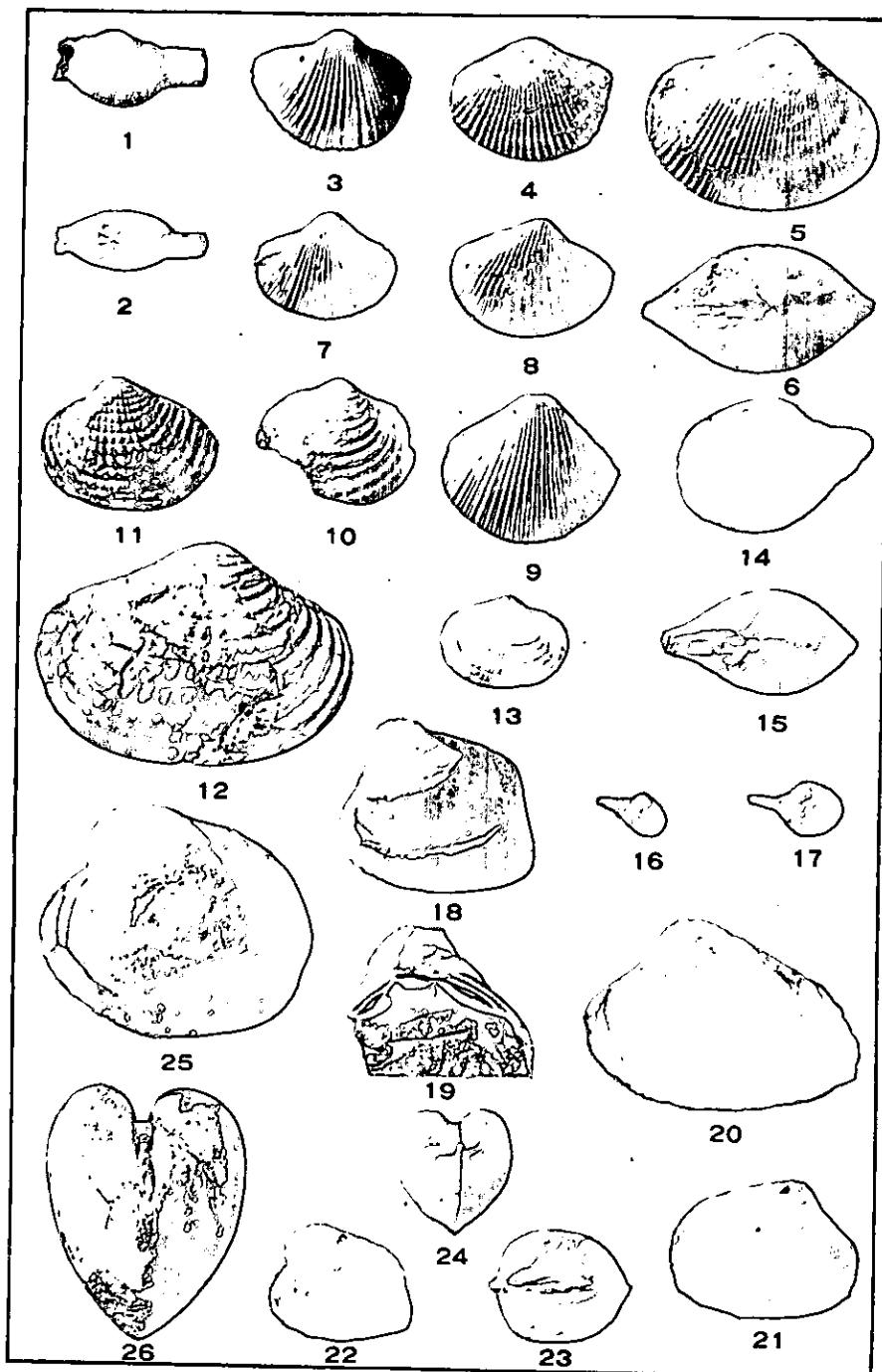


PELECYPODA.

EXPLANATION OF PLATE LVIII.

CLAVAGELLA ARMATA Morton,.....	p. 525
1-2. Lateral and cardinal views of a very perfect internal cast. <i>Navesink marl; Atlantic Highlands, (108).</i>	
LIOPISTHA KÜMMELI n. sp.,.....	p. 529
3. Lateral view of the type specimen, an internal cast. <i>Merchantville, clay-marl; Lenola, (163).</i>	
LIOPISTHA PROTEXTA (Conrad),.....	p. 526
4. Lateral view of an internal cast of a single valve. <i>Red Bank sand; near Middletown, (112).</i>	
5-6. Lateral and cardinal views of a very perfect internal cast. <i>Navesink marl; Mullica Hill, (169).</i>	
LIOPISTHA ALTERNATA n. sp.,.....	p. 527
7-8. Lateral views of two internal casts. <i>Merchantville clay-marl; near Matawan, (101).</i>	
9. Lateral view of an internal cast. <i>Merchantville clay-marl; near Jamesburg, (139).</i>	
CYMELLA BELLA Conrad,.....	p. 530
10. Lateral view of an incomplete internal cast of a single valve. <i>Cliffwood clay; near Matawan, (107).</i>	
11. Lateral view of an internal cast of a single valve. <i>Wenonah sand; near Marlboro, (130).</i>	
12. Lateral view of the internal cast of a large single valve. <i>Woodbury clay; Lorillard, (102).</i>	
CYMELLA UNDATA (Meek and Hayden),.....	p. 531
13. Lateral view of a small single valve. <i>Wenonah sand; near Marlboro, (130).</i>	
CUSPIDARIA JERSEYENSIS n. sp.,.....	p. 534
14-15. Lateral and cardinal views of the type specimen. <i>Navesink marl; near Crawfords Corner, (126^a).</i>	
CUSPIDARIA VENTRICOSA (Meek and Worthen),.....	p. 533
16-17. Lateral views of two more or less distorted internal casts of separate valves. <i>Red Bank sand; Red Bank, (116).</i>	
VENIELLA CONRADII Morton,.....	p. 534
18. External view of a nearly perfect left valve. 19. View of the hinge of a right valve. <i>Marshalltown clay-marl; near Swedesboro, (177).</i>	
ETEA TRAPEZOIDEA (Conrad),.....	p. 543
20-21. Lateral views of two internal casts. <i>Merchantville clay-marl; near Matawan, (101).</i>	
VENIELLA ? RHOMBOIDEA Conrad,.....	p. 538
22-24. Lateral, cardinal and anterior views of a nearly perfect in- ternal cast. <i>Manasquan marl; Farmingdale.</i>	
VENIELLA ? DECISA (Morton),.....	p. 540
25-26. Lateral and posterior views of an internal cast identified as this species by Whitfield. <i>Hornerstown marl; Blue Ball.</i>	

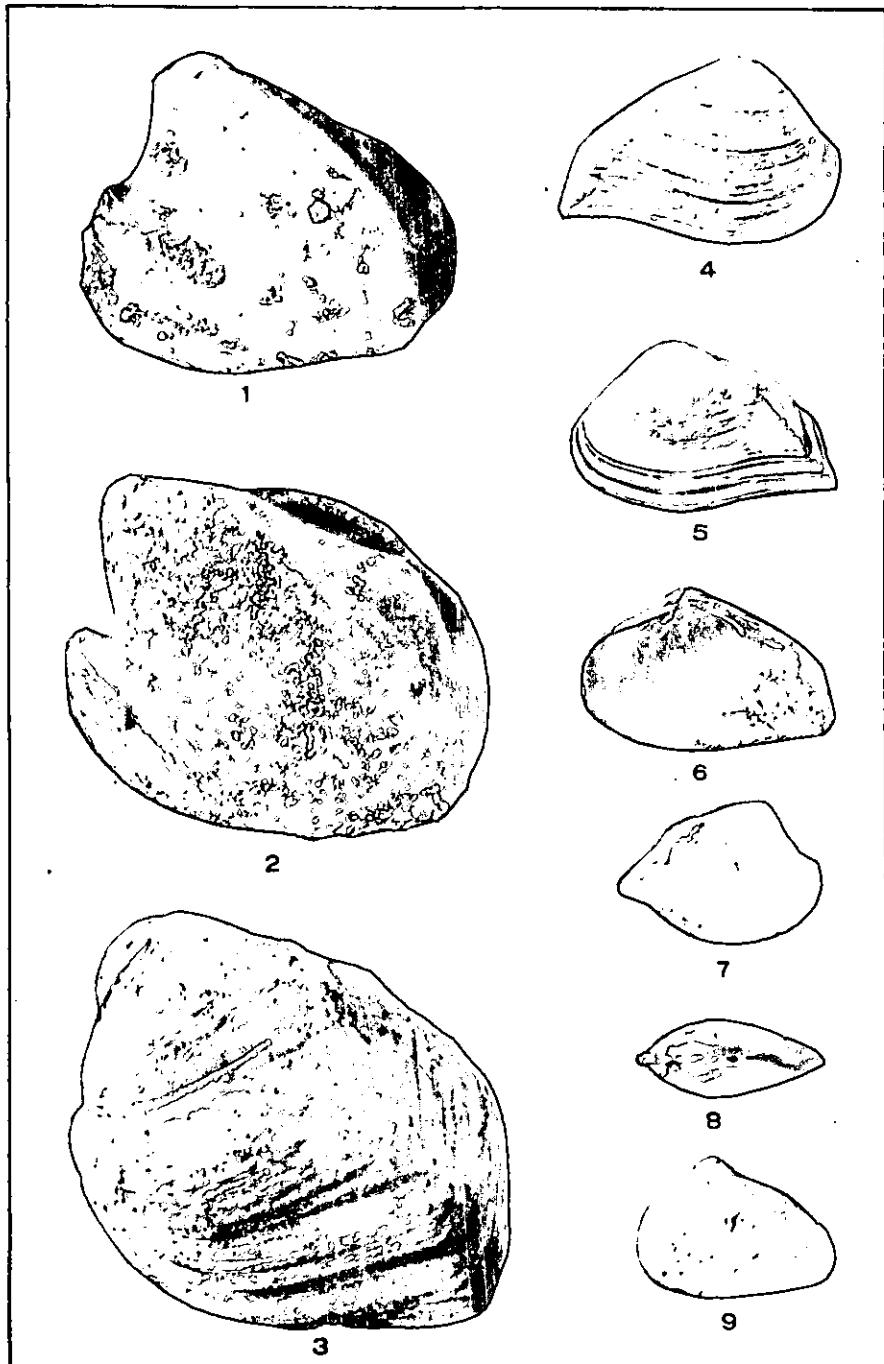
PLATE LVIII.



PELECYPODA.

EXPLANATION OF PLATE LIX.

- VENIELLA TRIGONA (Gabb).....p. 537
1. Lateral view of an internal cast of the left valve.
Navesink marl; near Walnford, (147⁴).
2. Lateral view of an internal cast of the left valve.
3. Lateral view of a plaster cast taken from the natural mould
of the exterior of the same specimen of which fig. 2 is
the internal cast.
Tinton Beds; Beers Hill Cut, (129⁵).
- ETEA CAROLINENSIS Conrad,p. 541
4-5. External views of a right and a left valve.
6. Internal view of a right valve, showing the hinge.
Marshalltown clay-marl; near Swedesboro, (177).
- ETEA TRAPEZOIDEA (Conrad),p. 543
7. Lateral view of a somewhat distorted internal cast of a right
valve.
Merchantville clay-marl; Lenola, (163).
- ETEA DELAWARENSIS (Gabb),p. 546
8-9. Cardinal and lateral views of a nearly perfect internal cast.
Manasquan marl; Pemberton, (101).



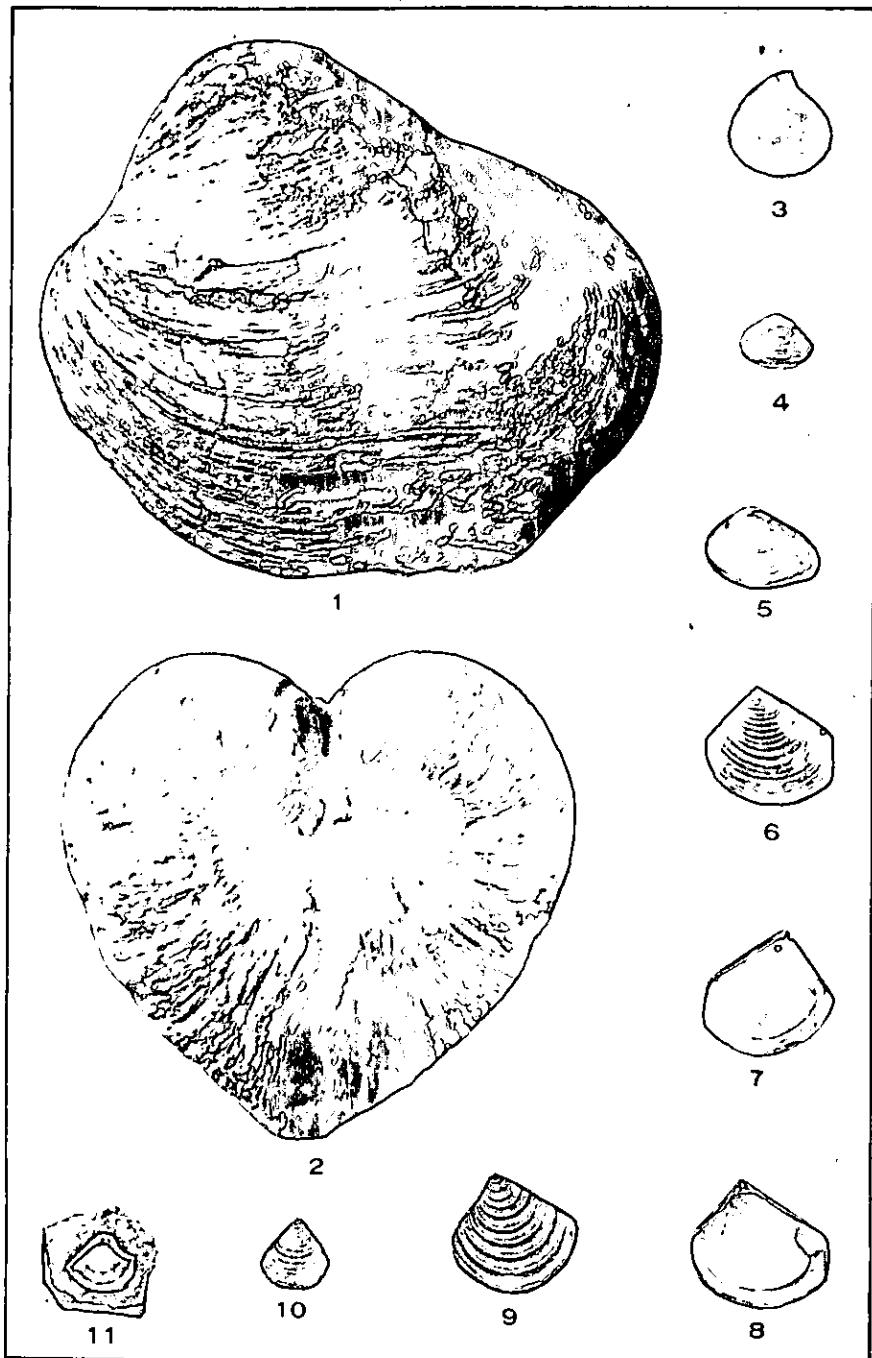
PELECYPODA.

9* PAL

EXPLANATION OF PLATE LX.

- AMBUCARDIA COOKII Whitfield, p. 548
1-2. Lateral and anterior views of the type specimen.
Raritan clay.
- ASTARTE VETA Conrad, p. 549
3. View of the type specimen. (After Whitfield.)
Raritan clay; Washington.
- ERIPHYLA CONRADI (Whitfield), p. 550
4. A squeeze from a natural mould of the exterior.
Merchantville clay-marl; near Jamesburg, (141).
5. The internal cast of a left valve, (x2).
Merchantville clay-marl; near Jamesburg, (140).
6-8. External and internal views of a left valve and internal view
of a right valve, (x3). (The type specimens, after Whit-
field.)
Woodbury clay; Haddonfield, (183).
- ERIPHYLA DECENNARIA (Conrad), p. 551
9. Lateral view of the type specimen. (After Whitfield.)
Woodbury clay; Haddonfield, (183).
- ERIPHYLA DECLIVIS (Conrad), p. 551
10. View of the type specimen, (x2). (After Whitfield.)
Woodbury clay; Haddonfield, (183).
- ERIPHYLA PARILIS (Conrad), p. 552
11. View of the type specimen. (After Whitfield.)
Horizon and locality not known.

PLATE LX.

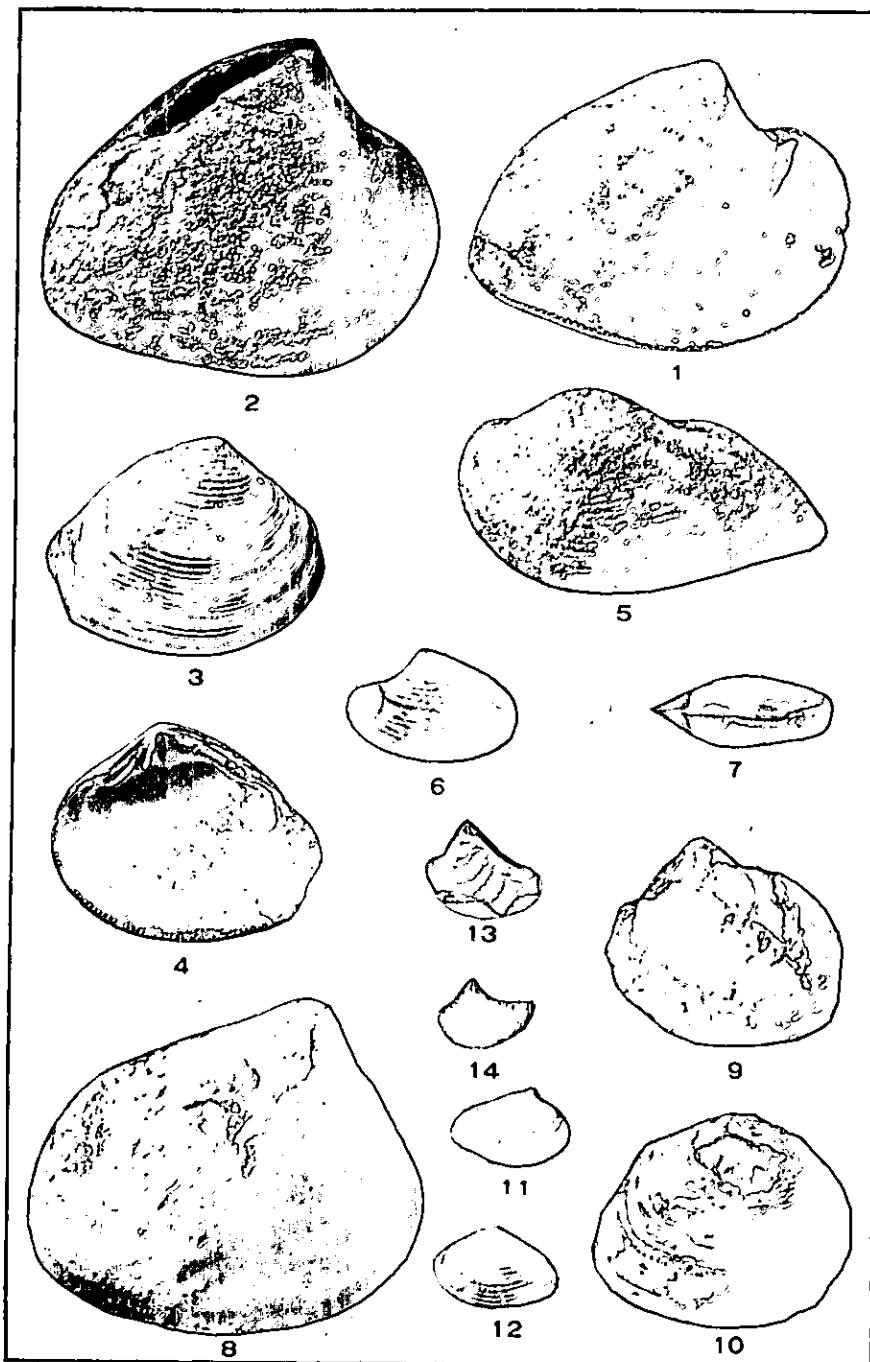


PELECYPODA.

EXPLANATION OF PLATE LXI.

- CRASSATELLITES SUBPLANUS (Conrad), p. 553
1. The internal cast of a right valve.
Navesink marl; near Walnford, (147⁴).
2. The internal cast of a right valve.
Red Bank sand; Red Bank, (116).
3-4. External and internal views of a right valve.
Marshalltown clay-marl; near Swedesboro, (177).
- CRASSATELLITES TRANSVERSUS (Gabb), p. 555
5. Lateral view of a left valve.
Wenonah sand; near Marlboro, (130).
- CRASSATELLITES PRORUS (Conrad), p. 558
6-7. Lateral and cardinal views of the type specimen. (After
Whitfield).
Merchantville clay-marl ?; Crosswicks.
- CRASSATELLITES RHOMBEA (Whitfield), p. 561
8. Lateral view of one of the type specimens.
Manasquan marl; New Egypt.
- CRASSATELLITES LITTORALIS (Conrad), p. 559
9. Lateral view of one of the type specimens of *Crassatella con-
radi* Whitf.
Manasquan marl; Squankum.
10. Lateral view of one of the specimens illustrated by Whitfield.
Manasquan marl; Squankum.
- CRASSATELLITES CUNEATUS (Gabb), p. 556
11-12. Lateral views of two internal casts.
Merchantville clay-marl; Lenola, (163).
- SCAMBULA PERPLANA Conrad, p. 562
13. An internal cast of a left valve.
Woodbury clay; Lorillard, (102).
14. An internal cast of a left valve.
Wenonah sand; near Marlborough, (130).

PLATE LXI.

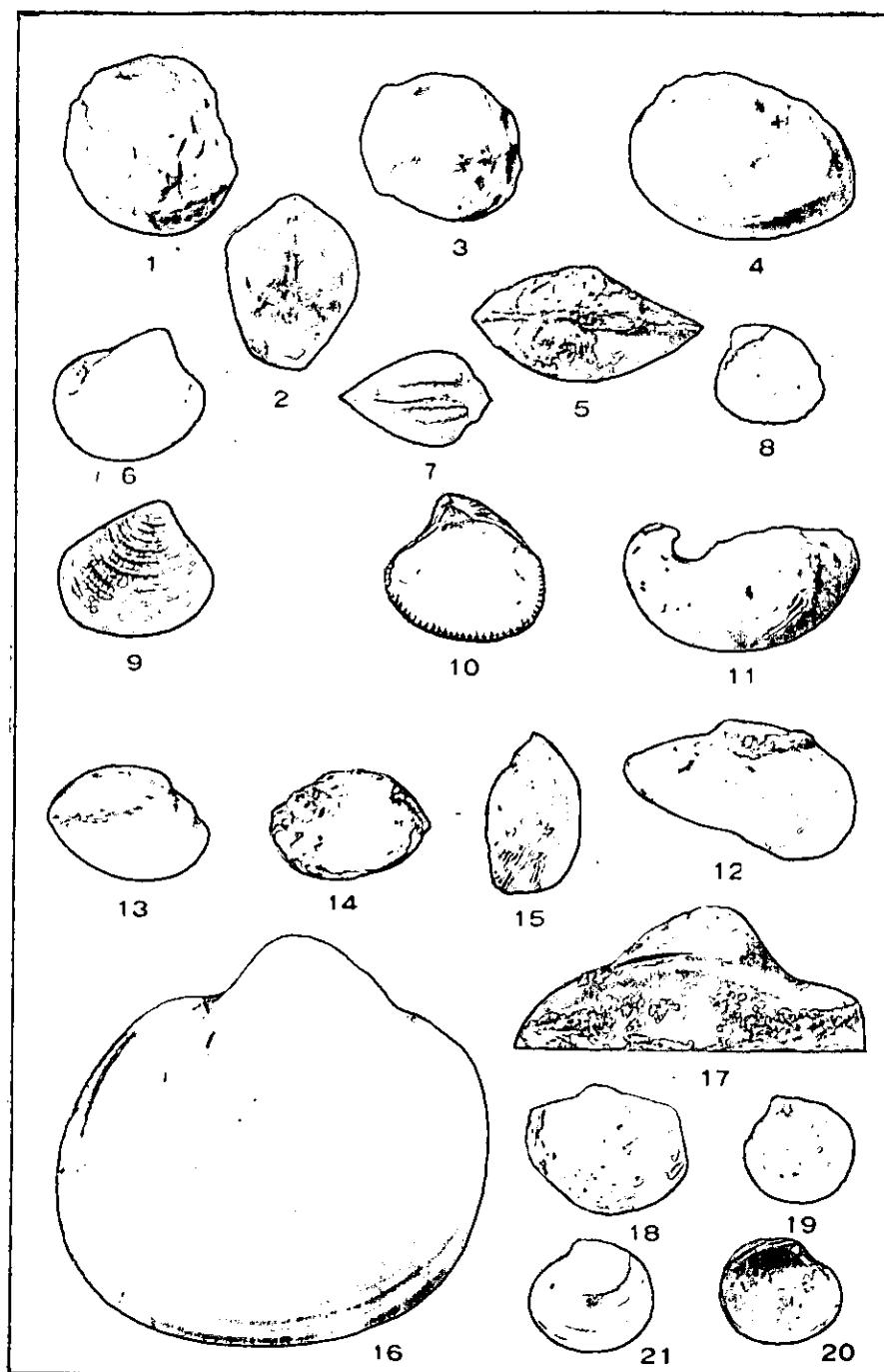


PELECYPODA.

EXPLANATION OF PLATE LXII.

- CORBICULA ANNOSA (Conrad), p. 563
1-2. Lateral and cardinal views of a specimen illustrated by Whitfield.
3. Lateral view of another specimen.
Raritan clay; Sayreville or Woodbridge.
- CORBICULA? EMACERATA Whitfield, p. 564
4-5. Lateral and cardinal views of the type specimen.
Raritan clay; near Woodbridge.
- CARDITA INTERMEDIA Whitfield, p. 565
6-7. Lateral and cardinal views of the type specimen. (After Whitfield.)
Manasquan marl; Farmingdale.
8. The internal cast of a left valve.
Long Branch sand; near Deal, (122).
- VETERICARDIA CRENALIRATA (Conrad), p. 566
9-10. External and internal views of one of the type specimens, (x4). (After Whitfield.)
Woodbury clay; Haddonfield, (183).
- DICERAS DACTYLOIDES Whitfield, p. 567
11-12. Two views of the type specimen.
Navesink marl; near Walnford.
- CAPROTINA JERSEYENSIS n. sp., p. 568
13-15. Two lateral views and an upper view of the type specimen.
Navesink marl; near Crawfords Corner, (126).
- UNICARDIUM UMBONATA (Whitfield), p. 569
16-17. Lateral view of a very perfect left valve and the hinge of the same.
Marshalltown clay-marl; near Swedesboro, (177).
- LUCINA CRETACEA Whitfield, p. 570
18. Lateral view of the internal cast of a left valve.
Woodbury clay; Lorillard, (102).
- LUCINA SWEDESBOROENSIS n. sp., p. 571
19-20. External and internal views of a left valve.
21. External view of another left valve.
Marshalltown clay-marl; near Swedesboro, (177).

PLATE LXII.

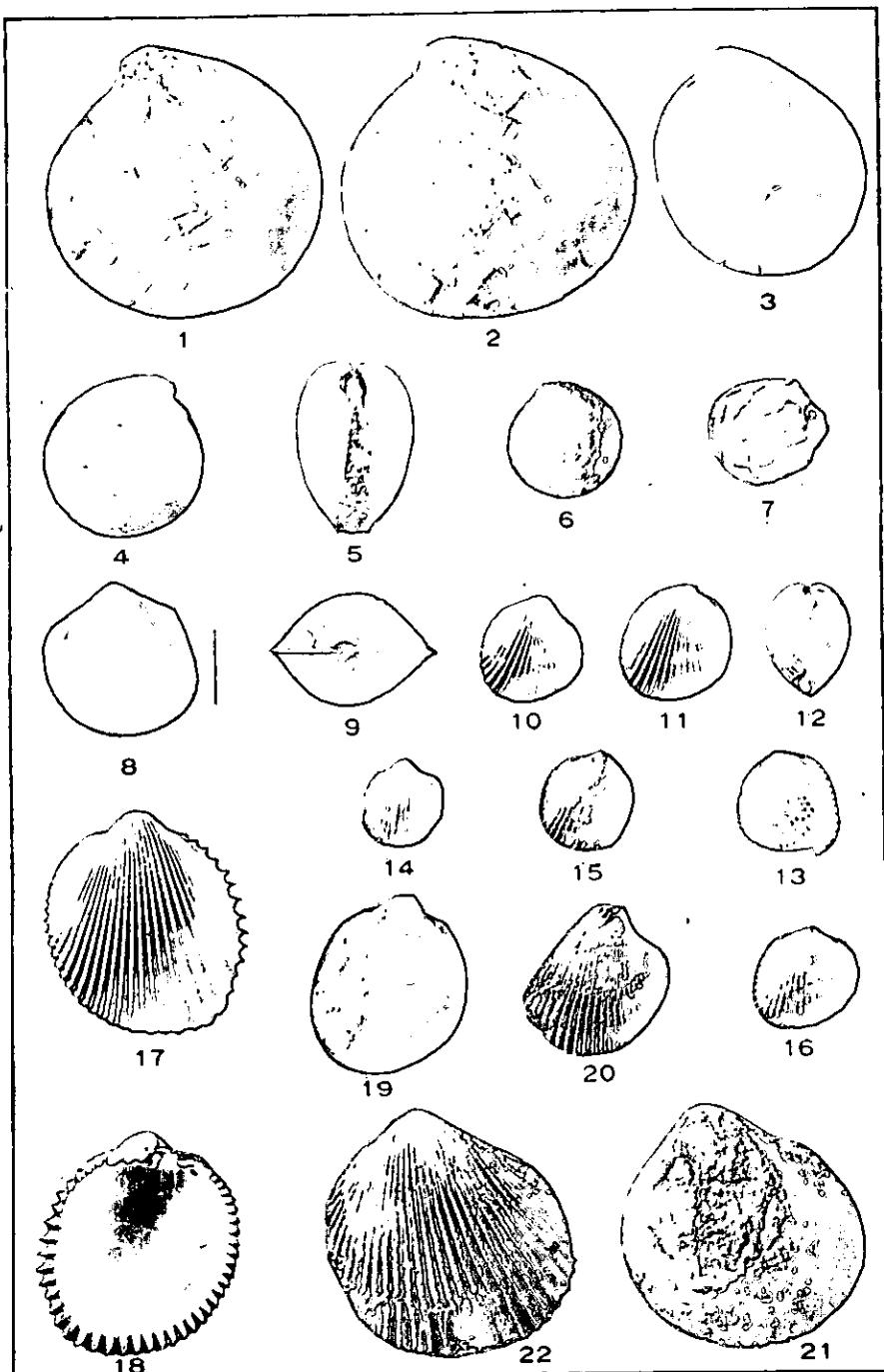


PELECYPODA.

EXPLANATION OF PLATE LXIII.

- TENEA PARVILIS Conrad, p. 572
 1-2. The internal cast of a left valve and a plaster cast from the natural mould of the exterior of the same.
 3. The internal cast of a more ovate left valve.
Woodbury clay; Lorillard, (102).
 4-5. Lateral and anterior views of an internal cast.
Navesink marl.
 6. Lateral view of a small internal cast of a left valve.
Red Bank sand; Shrewsbury River (119).
- TENEA PINGUIS Conrad, p. 574
 7. Lateral view of an internal cast, (x2).
Navesink marl, near Walnford (148²).
- CARDIUM NUCLEUS (Whitfield), p. 575
 8-9. Lateral and cardinal view of the type specimen, (x2).
 (After Whitfield.)
Manasquan marl; Farmingdale.
- CARDIUM WENONAH n. sp., p. 576
 10. Lateral view of a right valve.
 11-12. Lateral and posterior views of a complete specimen.
 13. Interior of a right valve.
Corsicana, Texas, U. S. Nat. Mus. Coll. No. 20,927.
 14-16. Lateral views of the internal casts of three right valves.
Wenonah sand; near Marlboro, (130).
- CARDIUM EUFAULENSIS Conrad, p. 577
 17-18. External and internal views of a left valve.
Union Co. Miss., U. S. Nat. Mus. Coll. No. 20,847.
 19. The internal cast of a right valve.
 20. Squeeze taken from a natural mould of the exterior.
Wenonah sand; near Crawfords Corner, (126³).
- CARDIUM LONGSTREETI n. sp., p. 579
 21. The internal cast of a left valve.
 22. Squeeze taken from the natural mould of the exterior of the same.
Wenonah sand; near Crawfords Corner, (126³).

PLATE LXIII.

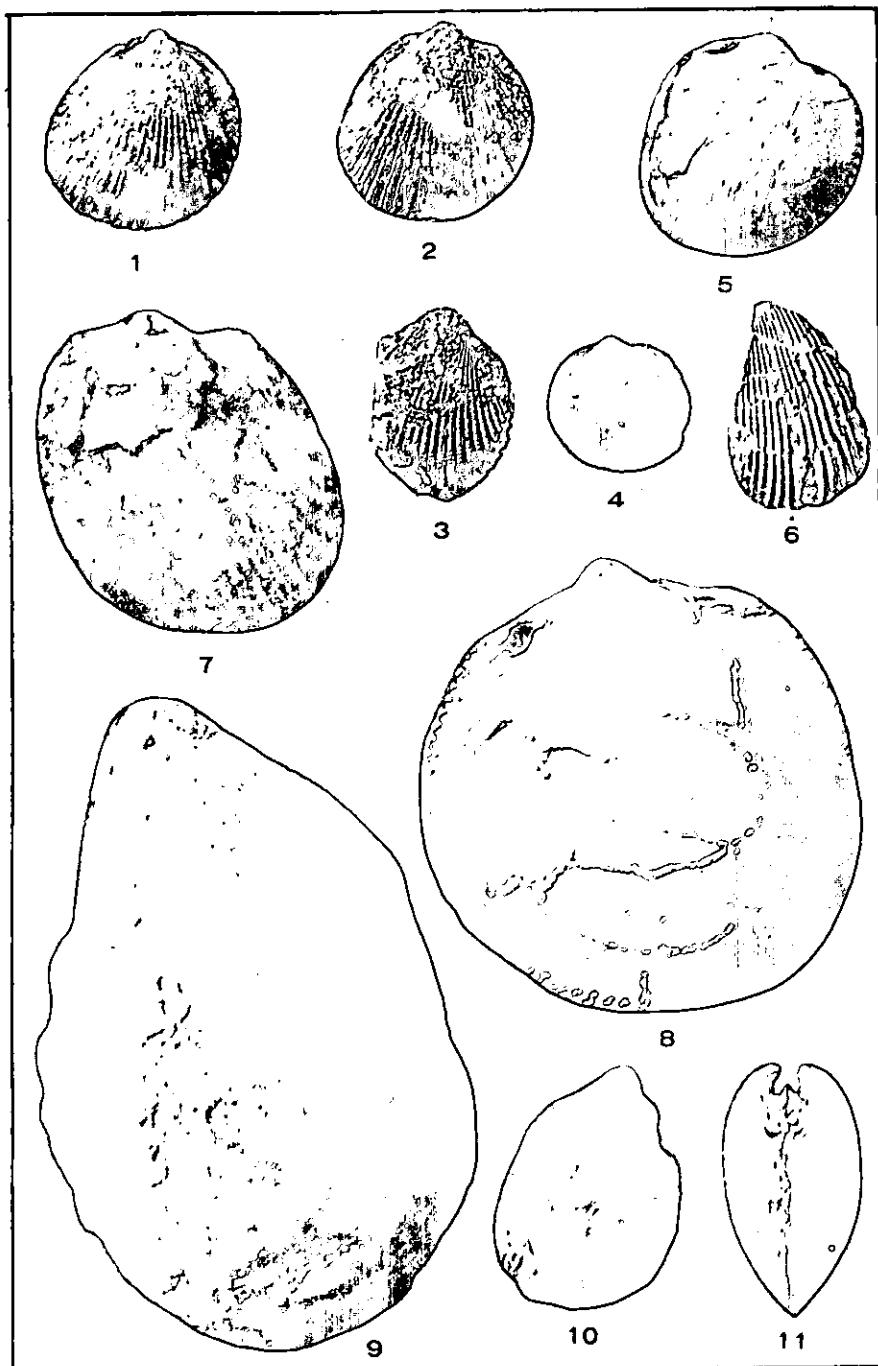


PELECYPODA.

EXPLANATION OF PLATE LXIV.

- CARDIUM CLIFFWOODENSIS n. sp.,.....p. 581
1-2. The internal cast of a right valve and squeeze taken from the natural mould of the exterior of the same.
3. A squeeze taken from another natural mould of the exterior.
4. The internal cast of a small left valve.
Cliffwood clay; Cliffwood Point, (185).
- CARDIUM LORILLARDENSIS n. sp.,.....p. 582
5. The internal cast of a right valve.
6. Squeeze from the natural mould of the exterior of the same.
Woodbury clay, Lorillard (102).
- CARDIUM sp.
7. Imperfect cast of a left valve illustrated by Whitfield as *C. eufaulensis*.
Navesink marl; Holmdel.
- CARDIUM WHITFIELDI n. sp.,.....p. 580
8. Left lateral view of the type specimen, a nearly complete internal cast.
Woodbury clay; Lorillard, (102).
- CARDIUM SPILLMANI Conrad,.....p. 583
9. Lateral view of a large internal cast of a left valve.
Navesink marl; near Walnford, (147').
10-11. Lateral and anterior views of a small, nearly perfect internal cast.
Merchantville clay-marl; near Matawan, (101).

PLATE LXIV.

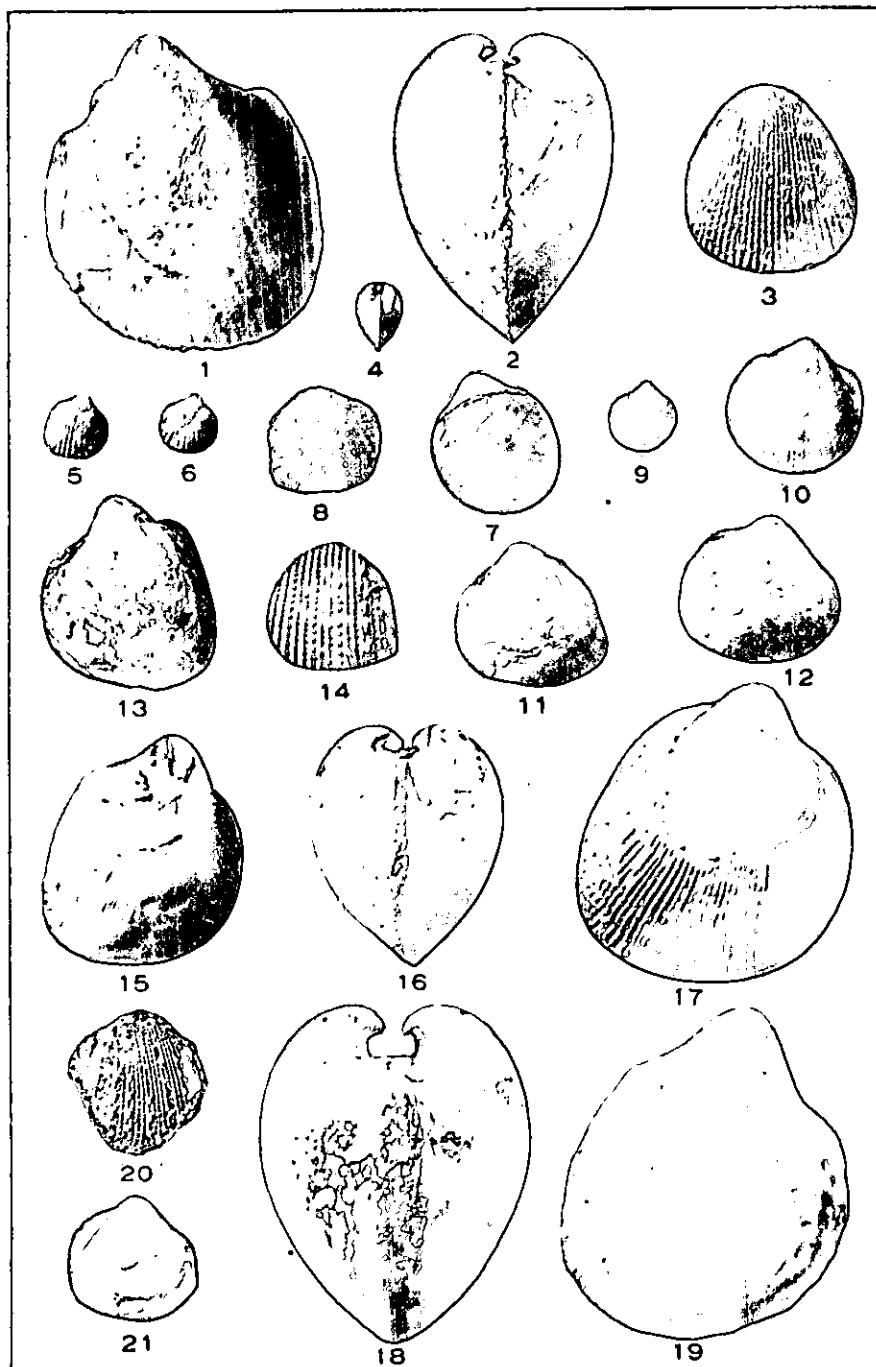


PELECYPODA.

EXPLANATION OF PLATE LXV.

- CARDIUM UNIFORMIS n. sp.,.....p. 588
 1-2. Lateral and posterior views of a very perfect internal cast.
 3. Squeeze taken from a portion of the natural external mould
 of the same.
Woodbury clay; Lorillard, (102).
- CARDIUM RIPLEYANUM Conrad,.....p. 582
 4-5. Posterior and lateral views of a complete internal cast,
 (x2).
 6. Lateral view of another internal cast, (x2).
Woodbury clay; Lorillard, (102).
- CARDIUM DUMOSUM Conrad,.....p. 590
 7-8. The incomplete cast of a left valve and a squeeze taken from
 the natural mould of the exterior of the same.
 9. Lateral view of a small, very perfect internal cast.
 10. The same (x2).
Woodbury clay; Lorillard, (102).
- CARDIUM PILSBRYI n. sp.,.....p. 594
 11-12. Lateral views of two internal casts, a left valve and a right
 valve.
Merchantville clay-marl; Lenola, (163).
- CARDIUM TENUISTRATIUM (Whitfield),.....p. 591
 13. View of the type specimen.
Wenonah sand; near Marlboro.
 14. View of a squeeze from a natural mould of the exterior, to
 show the character of the surface markings.
Merchantville clay-marl; Lenola, (163).
- 15-16. Lateral and posterior views of a nearly perfect internal cast.
Merchantville clay-marl; Lenola, (163).
17. A right valve partially preserving of the shell.
Marshalltown clay-marl; near Swedesboro, (177).
- 18-19. Anterior and lateral views of a nearly perfect internal cast.
Marshalltown clay-marl; Marshalltown, (190).
- CARDIUM TRILINEATUM n. sp.,.....p. 589
 20. A squeeze from a natural mould of the exterior, showing the
 character of the surface markings.
Navesink marl; Atlantic Highlands, (108).
- PROTocardium JERSEYENSIS n. sp.,.....p. 596
 21. The internal cast of a right valve, (x2).
Merchantville clay-marl; near Jamesburg, (140).

PLATE LXV.

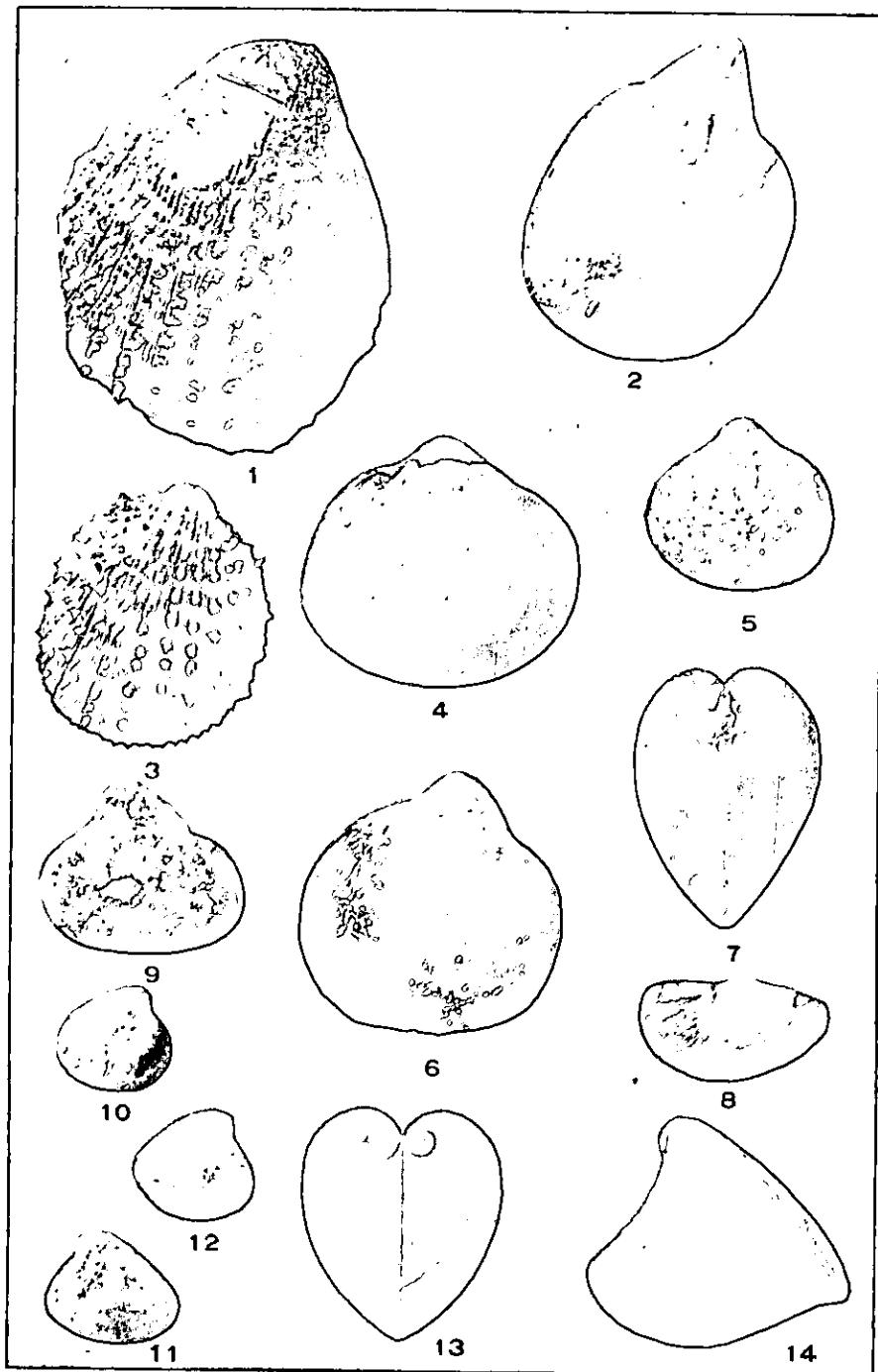


PELECYPODA.

EXPLANATION OF PLATE LXVI.

- CARDIUM KÜMMELI n. sp.,.....p. 585
1. Lateral view of an incomplete right valve partially preserving
the shell.
2. The internal cast of a right valve.
Tinton beds; Beers Hill Cut, (129°).
3. External view of a perfect right valve.
Mississippi, Coll. U. S. Nat. Mus.
- CARDIUM KNAPPI n. sp.,.....p. 595
4. The internal cast of a right valve.
Vincentown sand; near Deal, (122).
5. The internal cast of a left valve.
Vincentown limesand; New Egypt, (143).
6-7. Lateral and anterior views of a nearly complete internal cast.
Hornerstown marl; near Juliustown, (160).
- FULVIA TENUIS Whitfield,p. 597
8. View of the type specimen.
Navesink marl; Holmdel.
- ISOCARDIA TINTONENSIS n. sp.,.....p. 599
9. View of the type specimen.
Tinton beds; Beers Hill Cut, (129°).
- ISOCARDIA CLIFFWOODENSIS Weller,.....p. 598
10-11. Lateral views of two internal casts of single valves.
Cliffwood clay; near Matawan, (186).
12. Lateral view of an internal cast of a right valve.
Cliffwood clay; near Matawan, (107).
- ISOCARDIA CONRADII Gabb,.....p. 599
13-14. Anterior and lateral views of the type specimen. (After
Whitfield.)
Vincentown limesand; Timber Creek.

PLATE LXVI.

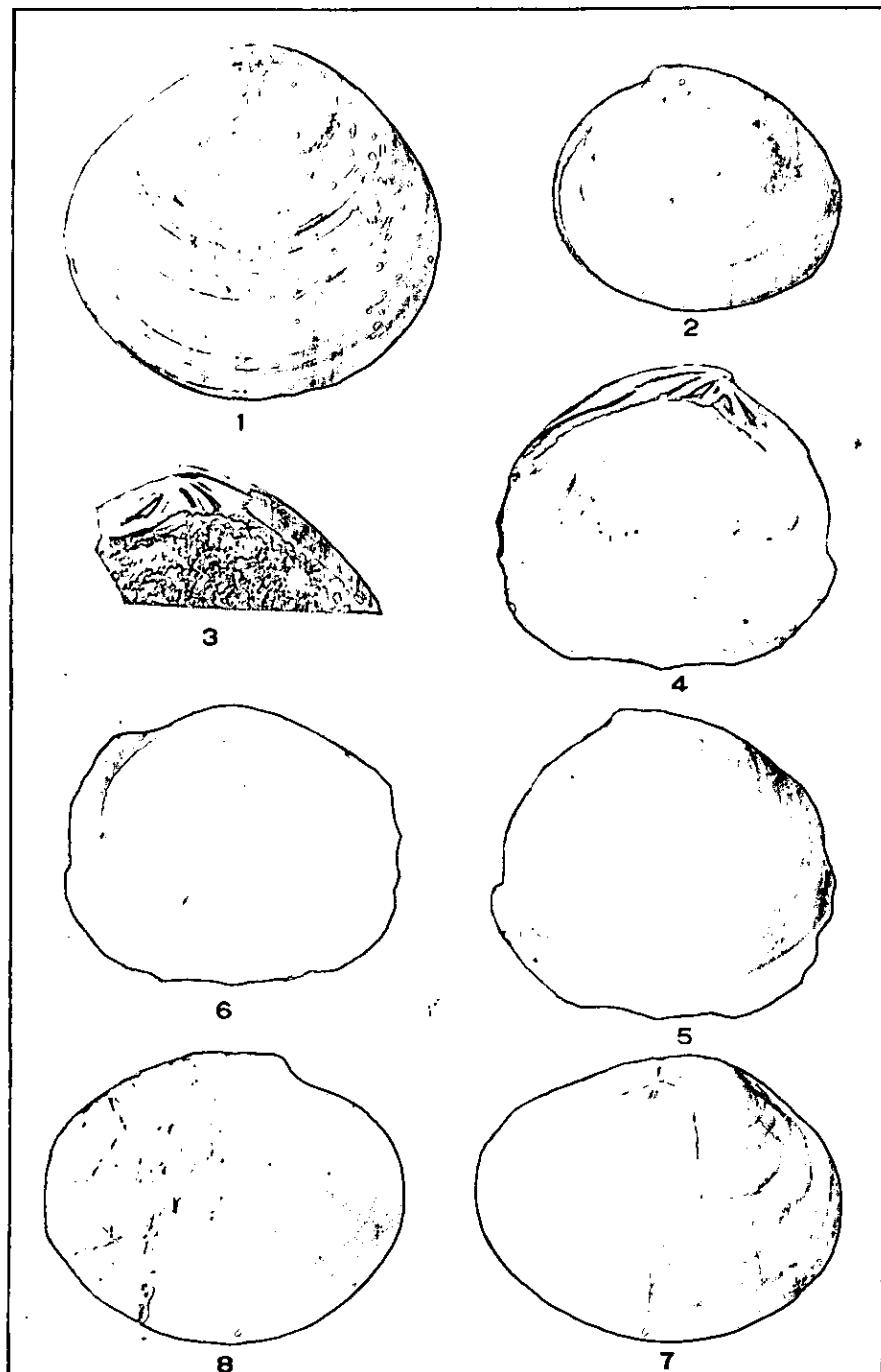


PELECYPODA.

EXPLANATION OF PLATE LXVII.

- CYPRIMERIA EXCAVATA (Morton), p. 602
1-2. Views of two left valves.
3. View of the hinge of the right valve.
4-6. Interior and exterior views of a left valve, and a plaster cast taken from the interior of the same.
Marshalltown clay-marl; near Swedesboro, (177).
- CYPRIMERIA CRÈTACEA Conrad, p. 604
7-8. The internal cast of a right valve, and a plaster cast taken from the natural mould of the exterior of the same.
Woodbury clay; Lorillard, (102).

PLATE LXVII.



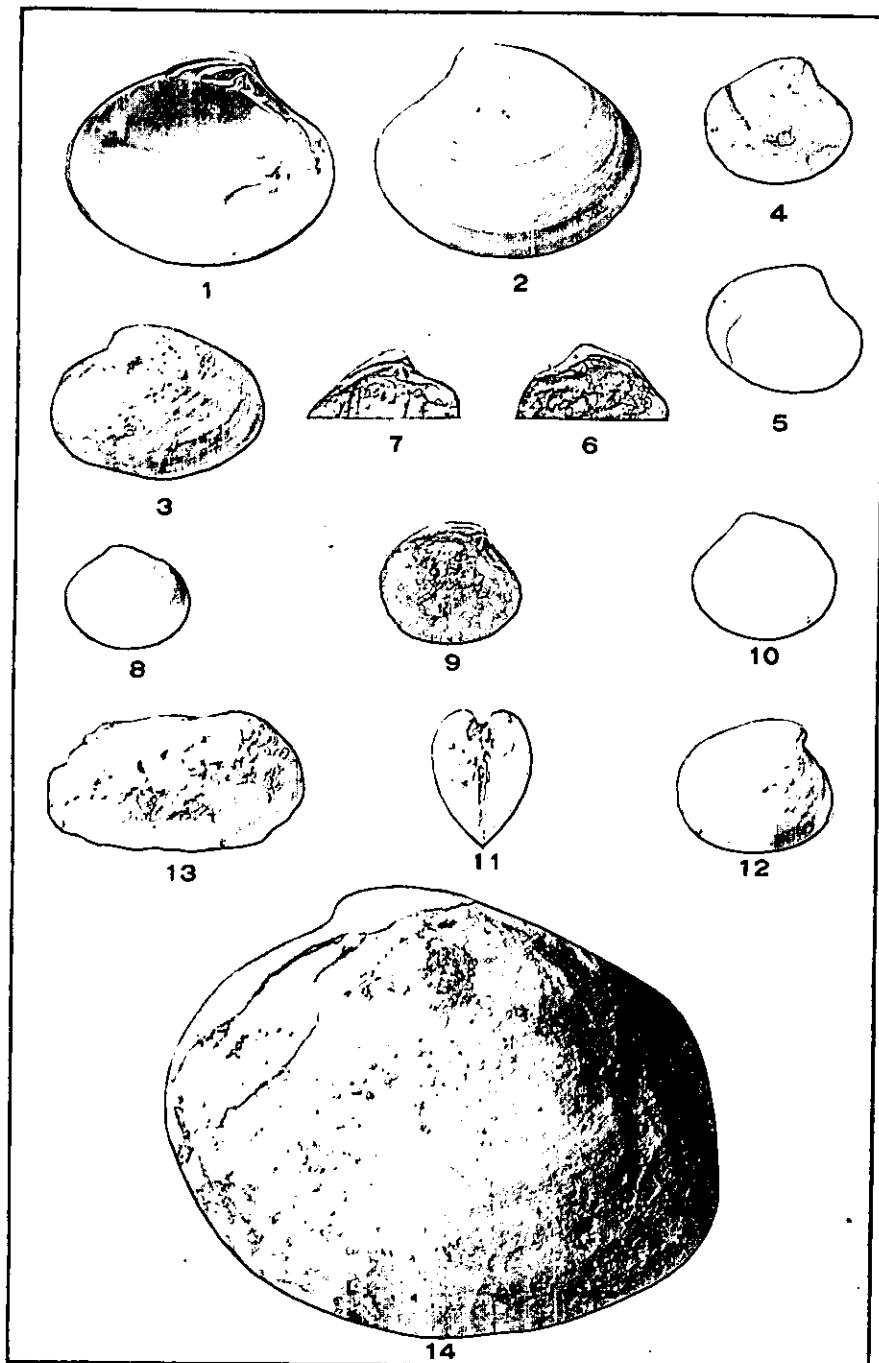
PELECYPODA.

10* PAL

EXPLANATION OF PLATE LXVIII.

- MERETRIX TIPANA Conrad, p. 607
1-2. Internal and external views of a perfect left valve.
Ripley, Miss. Coll. U. S. Nat. Mus., No. 20,690.
3. A somewhat distorted cast of the interior of a left valve.
Merchantville clay-marl; Lenola, (163).
- MERETRIX CRETACEA (Conrad), p. 608
4-5. Views of two right valves.
6-7. Views of the hinges of the two valves.
Marshalltown clay-marl; near Swedesboro, (177).
- MERETRIX EUFAULENSIS (Conrad), p. 609
8. View of a left valve.
9-10. Interior and exterior views of a left valve.
Marshalltown clay-marl; near Swedesboro, (177).
- CARYATIS VETA Whitfield, p. 611
11-12. Anterior and lateral views of an internal cast.
Manasquan marl; near New Egypt, (155).
- PETRICOLA NOVA-AEGYPTICA Whitfield, p. 614
13. Lateral view of the type specimen.
Manasquan marl; near New Egypt.
- CYPRIMERIA DENSATA (Conrad), p. 601
14. Lateral view of a large internal cast of a left valve.
Navesink marl; Holmdel.

PLATE LXVIII.

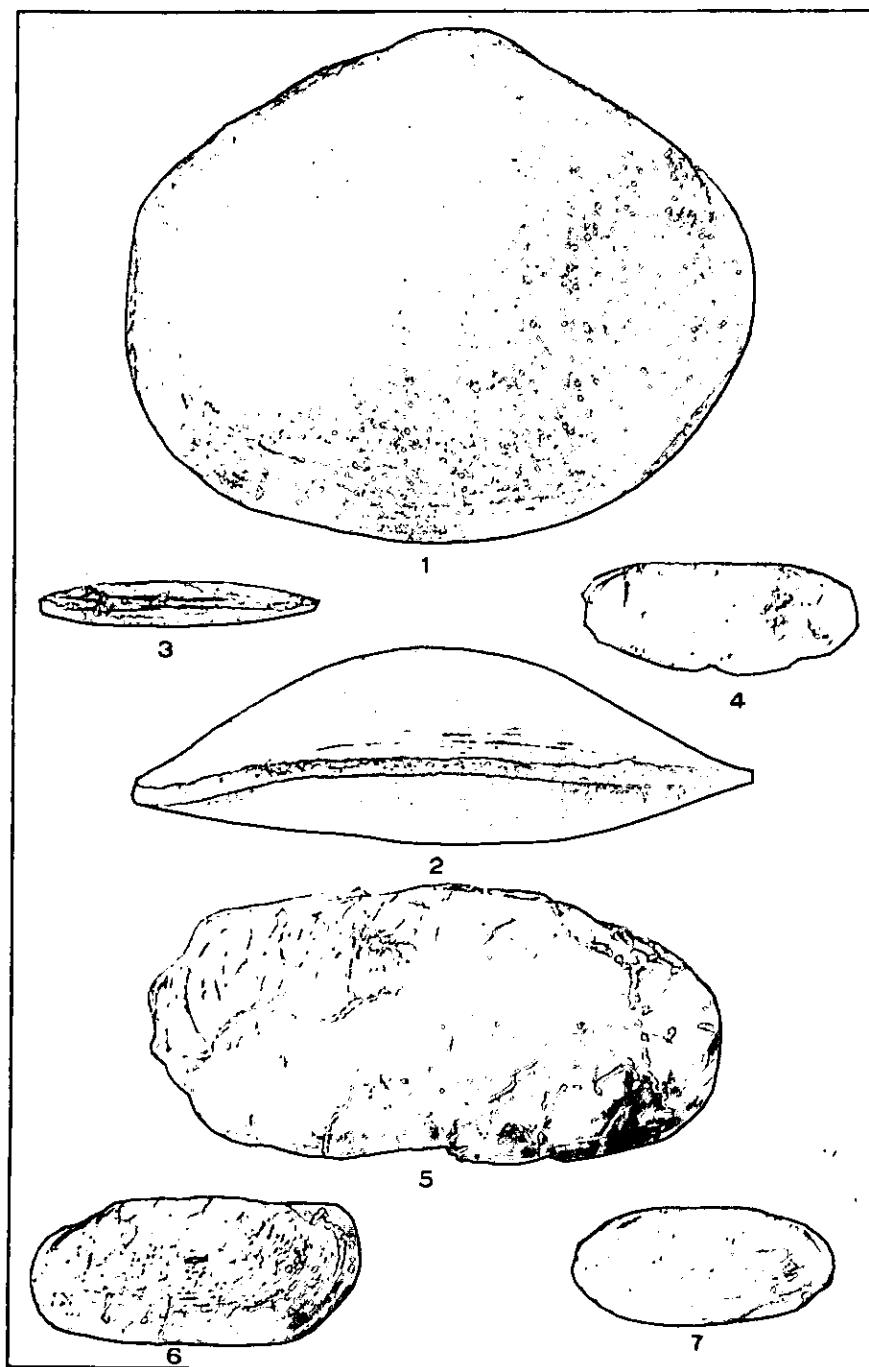


PELECYPODA.

EXPLANATION OF PLATE LXIX.

- CYPRIMERIA DENSATA (Conrad). p. 601
1-2. Lateral and ventral views of the type specimen, a large internal cast. (After Whitfield.)
Burlington.
- LEGUMEN PLANULATUM (Conrad), p. 612
3-4. Cardinal and lateral views of an internal cast illustrated by Whitfield.
Navesink marl; Freehold.
5. Lateral view of a large internal cast.
Woodbury clay; Lorillard, (102).
6. Lateral view of an internal cast.
Merchantville clay-marl; near Matawan, (101).
7. Lateral view of an internal cast.
Woodbury clay; near Haddonfield, (168).

PLATE LXIX.



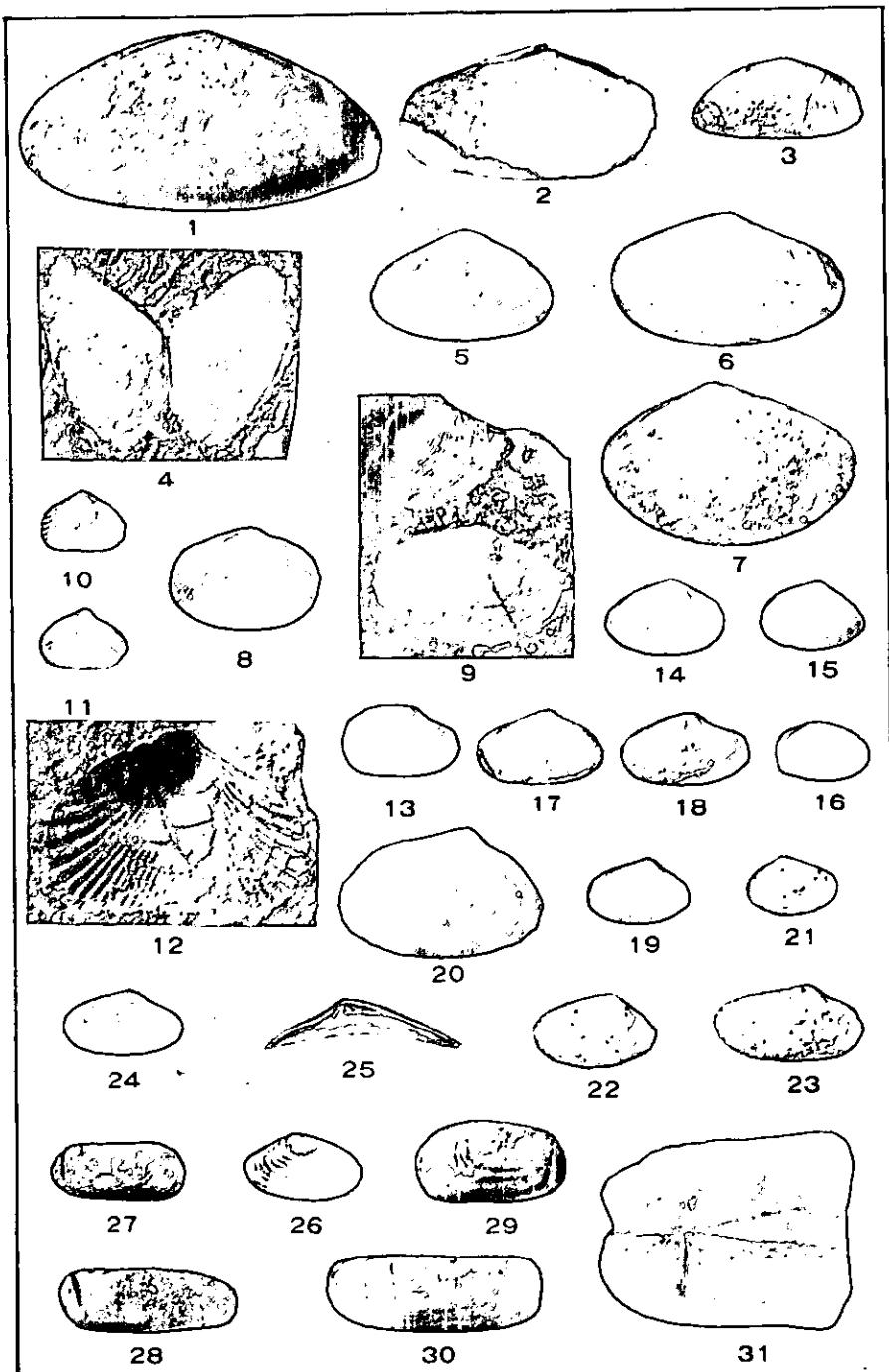
PELECYPODA.

EXPLANATION OF PLATE LXX.

- TELLINA GEORGIANA Gabb, p. 615
 1-2. Views of two internal casts, a left valve and a right valve.
Wenonah sand; near Crawfords Corner, (126³).
- TELLINA sp.
 3. Lateral view of the internal cast of a right valve.
Cliffwood clay; near Matawan, (107).
- PERONAEODERMA GEORGIANA Gabb, p. 617
 4. The impression of two outspread valves.
 5. The cast of a left valve.
Wenonah sand; near Marlboro, (130).
 6. The cast of a single valve referred doubtfully to this species.
Red Bank sand; Shrewesbury River, (119).
- TELLINA sp.
 7. The internal cast of a right valve.
Wenonah sand; Crawfords Corner, (126³).
- LINEARIA METASTRIATA Conrad, p. 618
 8. View of a perfectly preserved single valve. (After Whitfield.)
Woodbury clay; Haddonfield, (183).
 9. A cast of the interior and an impression of the exterior of two valves.
Wenonah sand; near Marlboro, (130).
- LINEARIA ORNATISSIMA n. sp., p. 619
 10. View of the internal cast of a single valve, (x2).
 11. The natural mould of the exterior of the same, (x2).
 12. The same mould of the exterior, (x6).
Woodbury clay; Lorillard, (102).
- LINEARIA CONTRACTA Whitfield, p. 620
 13. View of the type specimen. (After Whitfield.)
Navesink marl ?; Holmdel.
- TELLINIMERA EBOREA Conrad, p. 621
 14-16. Views of the casts of three single valves.
Wenonah sand; near Marlboro, (130).
 17-18. The internal cast of a single valve, with a squeeze of the natural mould of the exterior of the same.
Merchantville clay-marl; near Jamesburg, (141).
 19-20. The internal cast of a left valve and the same (x2).
Wenonah sand; Crawfords Corner, (126³).
 21-23. Views of the internal casts of three single valves.
Long Branch sand, near Deal, (122).
- AENONA ENFAULENSIS Conrad, p. 623
 24. Lateral view of the type specimen. (After Whitfield.)
 25. The hinge of the same, (x3). (After Whitfield.)
Woodbury clay; Haddonfield, (183).

- AENONA PAPYRIA Conrad, p. 624
26. Lateral view of the type specimen.
Woodbury clay; Haddonfield, (183).
- LEPTOSOLEN ? ELONGATA n. sp., p. 627
27. Lateral view of the internal cast of a left valve.
Red Bank sand; Red Bank, (116).
28. Lateral view of the internal cast of a left valve.
Red Bank sand; near Middletown, (112).
- LEPTOSOLEN ? TERMINALIS n. sp., p. 626
29. Lateral view of an internal cast of a right valve.
Merchantville clay-marl; near Jamesburg, (139).
- LEPTOSOLEN BIBLICATA Conrad, p. 624
30. Lateral view of an internal cast of a single valve.
31. View of the cast of a pair of outspread valves.
Wenonah sand; near Marlboro, (130).

PLATE LXX.

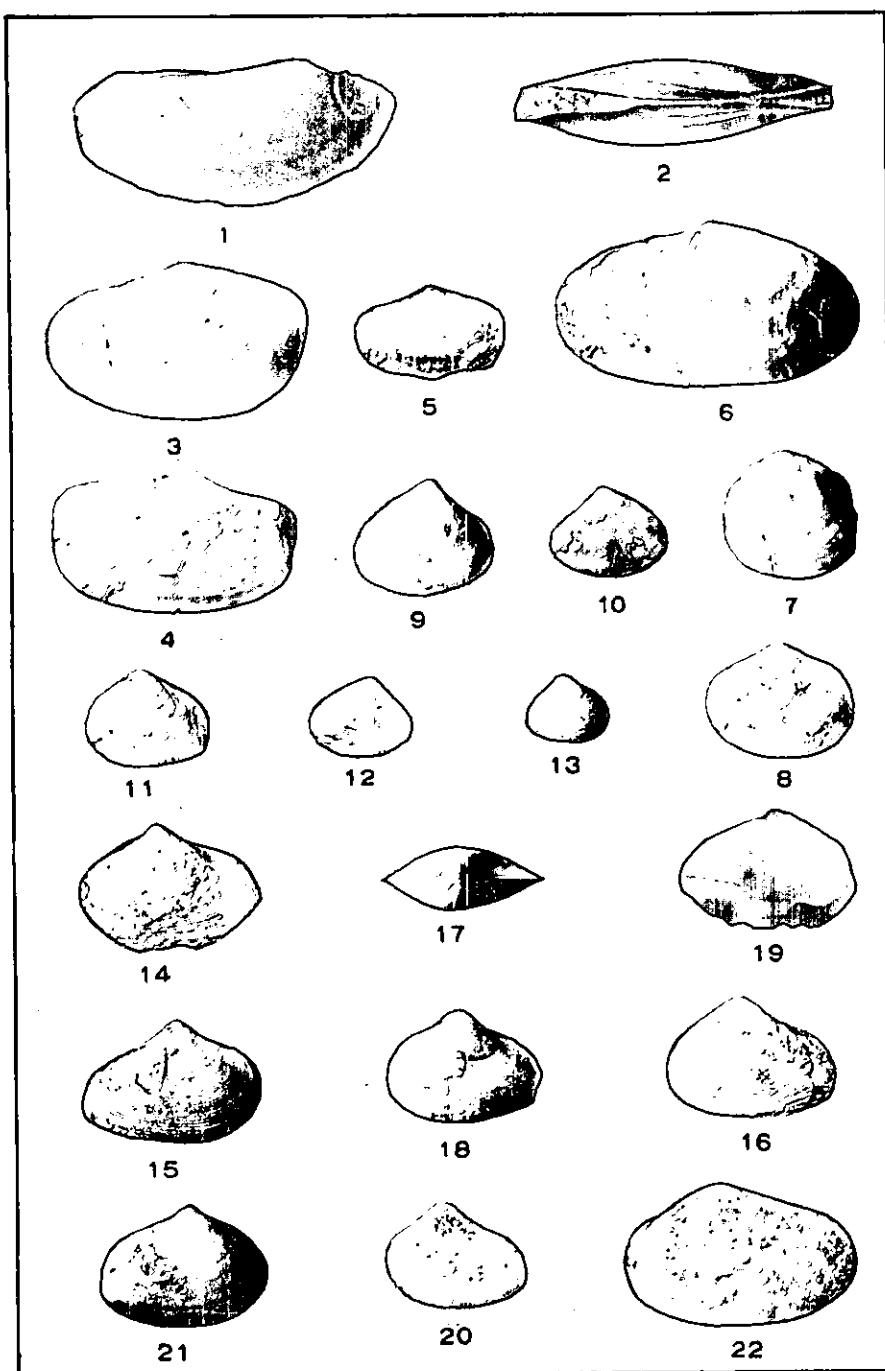


PELECYPODA.

EXPLANATION OF PLATE LXXI.

- SILIQUA CRETACEA* Gabb, p. 628
 1-2. Lateral and cardinal views of the type specimen. (After Whitfield.)
- SOLYMA LINEOLATA* Conrad, p. 629
 3-4. Lateral views of the internal casts of two single valves, a left one and right one.
Woodbury clay; Lorillard, (102).
 5. Lateral view of a small internal cast.
Merchantville clay-marl; Lenola, (163).
 6. Lateral view of a large internal cast.
Woodbury clay; near Matawan, (103).
- MACTRA PENTANGULARIS* n. sp., p. 631
 7-8. Views of two somewhat distorted internal casts of single valves.
Woodbury clay; Lorillard, (102).
- CYMBOPHORA LINTEA* (Conrad), p. 632
 9-10. Views of the internal casts of two single valves.
Cliffwood clay; Cliffwood Point, (185).
 11. View of the internal cast of a single valve.
Cliffwood clay; near Matawan, (107).
 12-13. Views of the internal casts of two single valves.
Red Bank Sand; Shrewsbury River, (119).
- SCHIZODESMA APPRESSA* Gabb, p. 634
 14. View of the type of *Veleda transversa* Whitt.
Wenonah sand; near Marlboro.
 15-16. Views of a right valve and a left valve.
Wenonah sand; near Marlboro, (130).
 17-18. Cardinal and lateral views of a complete specimen from Kaufman, Texas.
Coll. U. S. Nat. Mus., No. 21,006.
 19. Lateral view of a right valve from Chatfield, Texas.
Coll. U. S. Nat. Museum.
 20. Lateral view of the internal cast of a left valve.
Wenonah sand; near Crawfords Corner, (126³).
 21. Lateral view of a right valve, more broadly truncate behind than usual.
Cliffwood clay; Cliffwood Point, (105).
- CYMBOPHORA TELLINOIDES* (Whitfield), p. 633
 22. View of the type specimen.
Wenonah sand; near Marlboro.

PLATE LXXI.

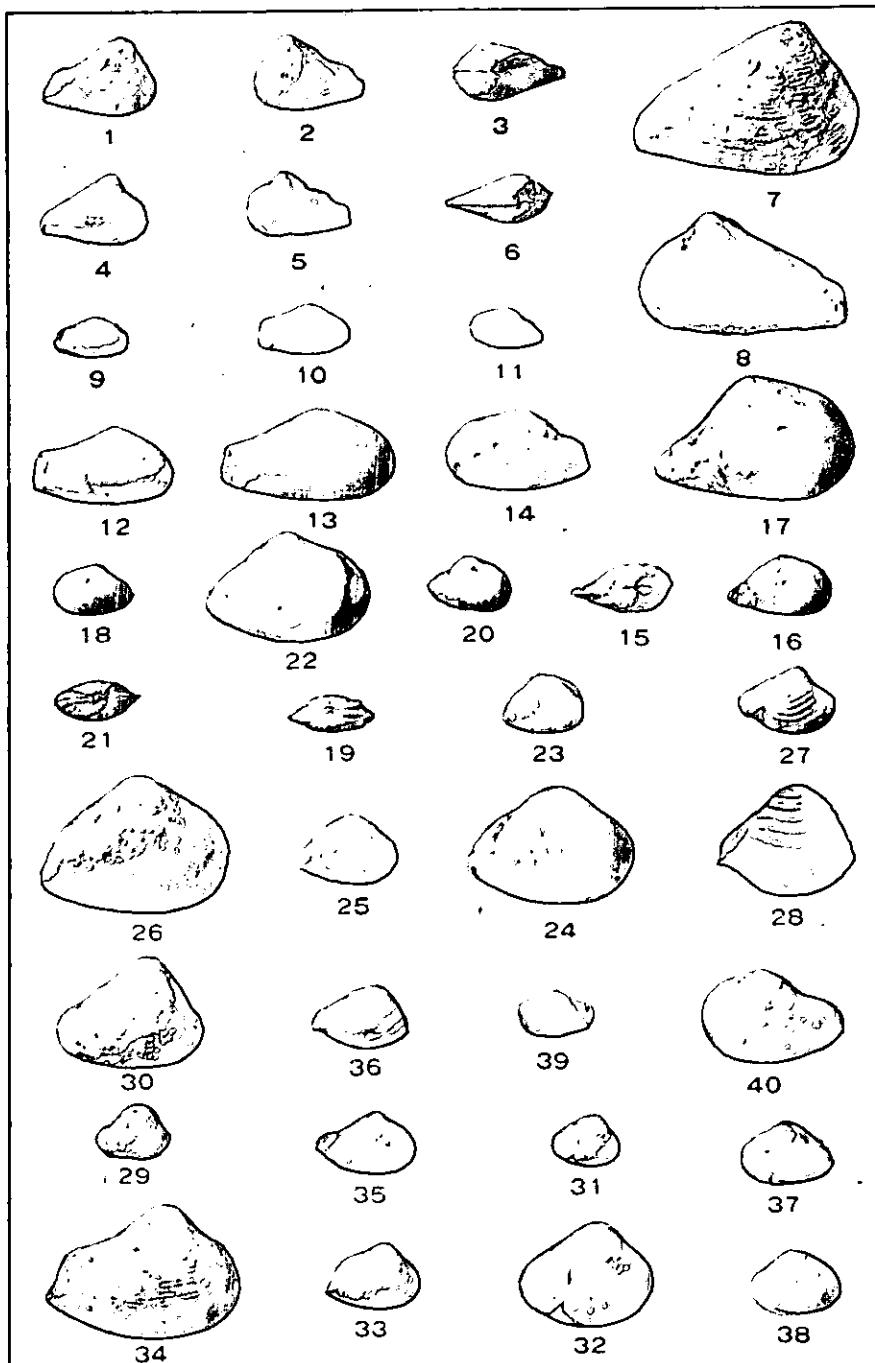


PELECYPODA.

EXPLANATION OF PLATE LXXII.

- CORBULA MANLEYI n. sp.,.....p. 636
 1-3. Right, left and cardinal views of a plaster cast from a natural mould of this species.
 4-6. Right, left and cardinal views of the internal cast of the same specimen.
 7. The right side of the plaster cast, (x2).
 8. The left side of the internal cast, (x2).
Raritan formation; Sayreville.
- CORBULA LORILLARDENSIS n. sp.,.....p. 637
 9-11. Views of three single valves.
 12-14. Views of the same, (x2).
Woodbury clay; Lorillard, (102).
- CORBULA BISULCATA Conrad,p. 638
 15-16. Cardinal and lateral views of a plaster cast from a natural mould, partially restored.
 17. Lateral view of the same, (x2).
 18-19. Lateral and cardinal views of an internal cast.
 20-22. Lateral and cardinal views of an internal cast, and a lateral view of the same, (x2).
Cliffwood clay; Cliffwood Point, (105).
- CORBULA FOULKSEI Lea,.....p. 640
 23. Lateral view of an internal cast.
 24. The same, (x2).
 25. Lateral view of a plaster cast from the natural mould of the exterior of the same individual.
 26. The same, (x2).
Woodbury clay; near Matawan, (103).
- CORBULA CRASSIPLECTA Gabb,p. 641
 27. Lateral view of a squeeze from a natural mould, (x2).
Merchantville clay-marl; near Jamesburg, (139).
 28. Lateral view of a right valve, (x3). (After Whitfield.)
Woodbury clay; Haddonfield, (183).
- CORBULA CLIFFWOODENSIS n. sp.,.....p. 643
 29. Lateral view of the internal cast of a right valve.
 30. The same, (x2).
 31. Lateral view of the internal cast of a right valve.
 32. The same, (x2).
Cliffwood clay; Cliffwood Point, (185).
- CORBULA SWEDESBOROENSIS n. sp.,.....p. 644
 33. Lateral view of the type specimen.
 34. The same, (x2).
Marshalltown clay-marl; near Swedesboro, (177).
 35. Lateral view of the internal cast of a single valve.
Cliffwood clay; near Matawan (189).
- CORBULA JERSEYENSIS n. sp.,.....p. 644
 37-38. Lateral views of two internal casts.
Cliffwood clay; Cliffwood Point, (185).
 39. Lateral view of the internal cast of a left valve.
 40. The same, (x2).
Cliffwood clay; Cliffwood Point, (185).

PLATE LXXII.

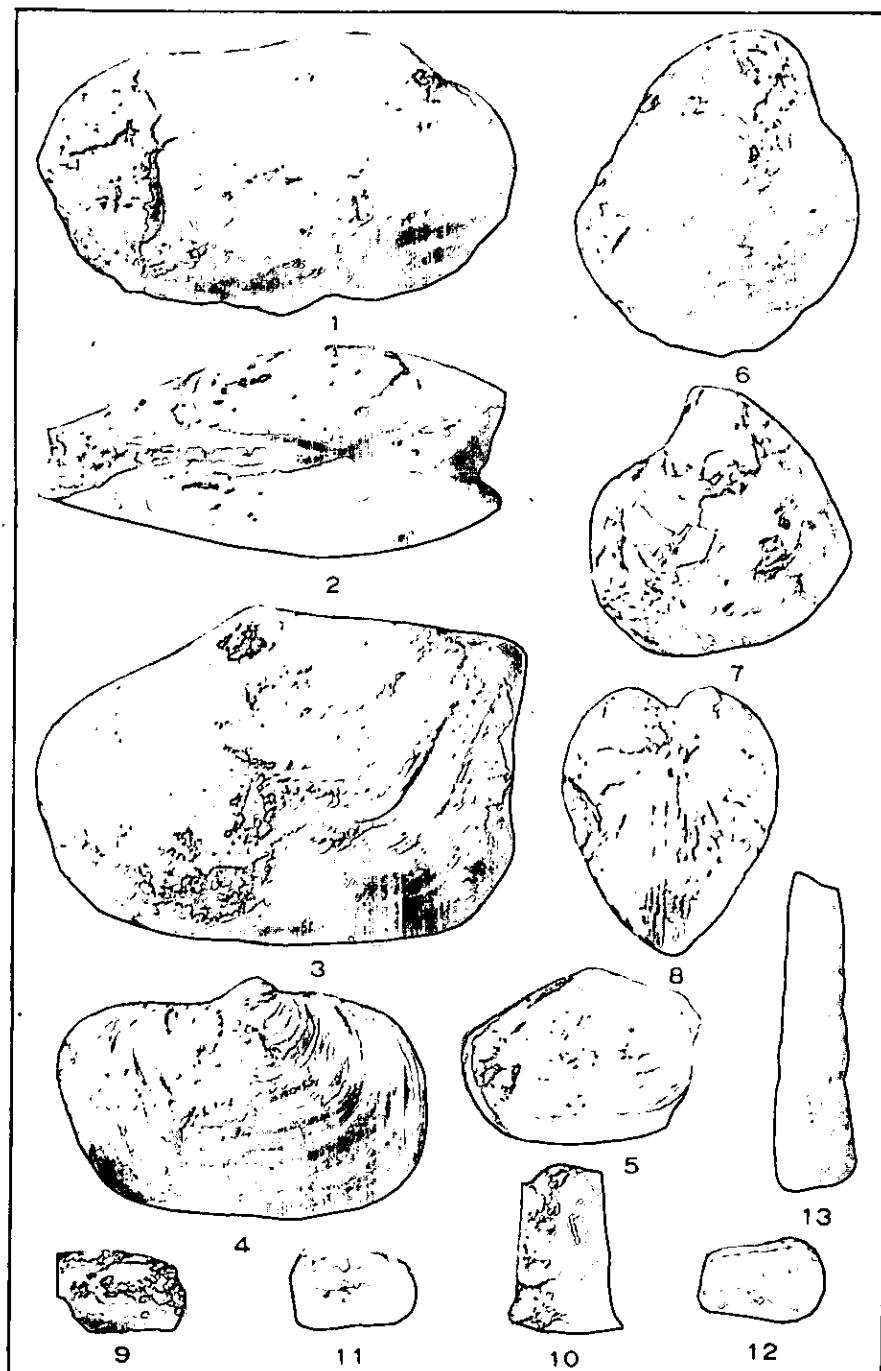


PELECYPODA.

EXPLANATION OF PLATE LXXIII.

- PANOPEA ELLIPTICA Whitfield,.....p. 647
1-2. Lateral and cardinal views of a nearly complete internal cast.
Manasquan marl; Medford.
- PANOPEA DECISA Conrad,.....p. 646
3. Lateral view of an internal cast.
Merchantville clay-marl; near Matawan, (101).
4. View of an internal cast of a right valve.
Wenonah sand; near Marlboro, (130).
5. Lateral view of a small internal cast.
Navesink marl; near Crawfords Corner, (126⁷).
- RANGIA ? TENUIDENS (Whitfield),.....p. 635
6. Lateral view of one of the type specimens.
7-8. Lateral and anterior views of another of the type specimens.
Raritan clay; near Sayreville.
- GASTROCHAENA LINGUIFORMIS n. sp.,.....p. 649
9. Right lateral view of the type specimen preserved in the
cast of the tube.
Merchantville clay-marl; near Jamesburg, (140).
- GASTROCHAENA WHITFIELDI n. sp.,p. 648
10-12. View of the tube, and cardinal and lateral views of the
included shell.
Navesink marl; near Walford, Bruere's pits.
- GASTROCHAENA AMERICANA Gabb,.....p. 649
13. View of the cast of a tube.
Vincentown limesand; New Egypt, (143).

PLATE LXXIII.

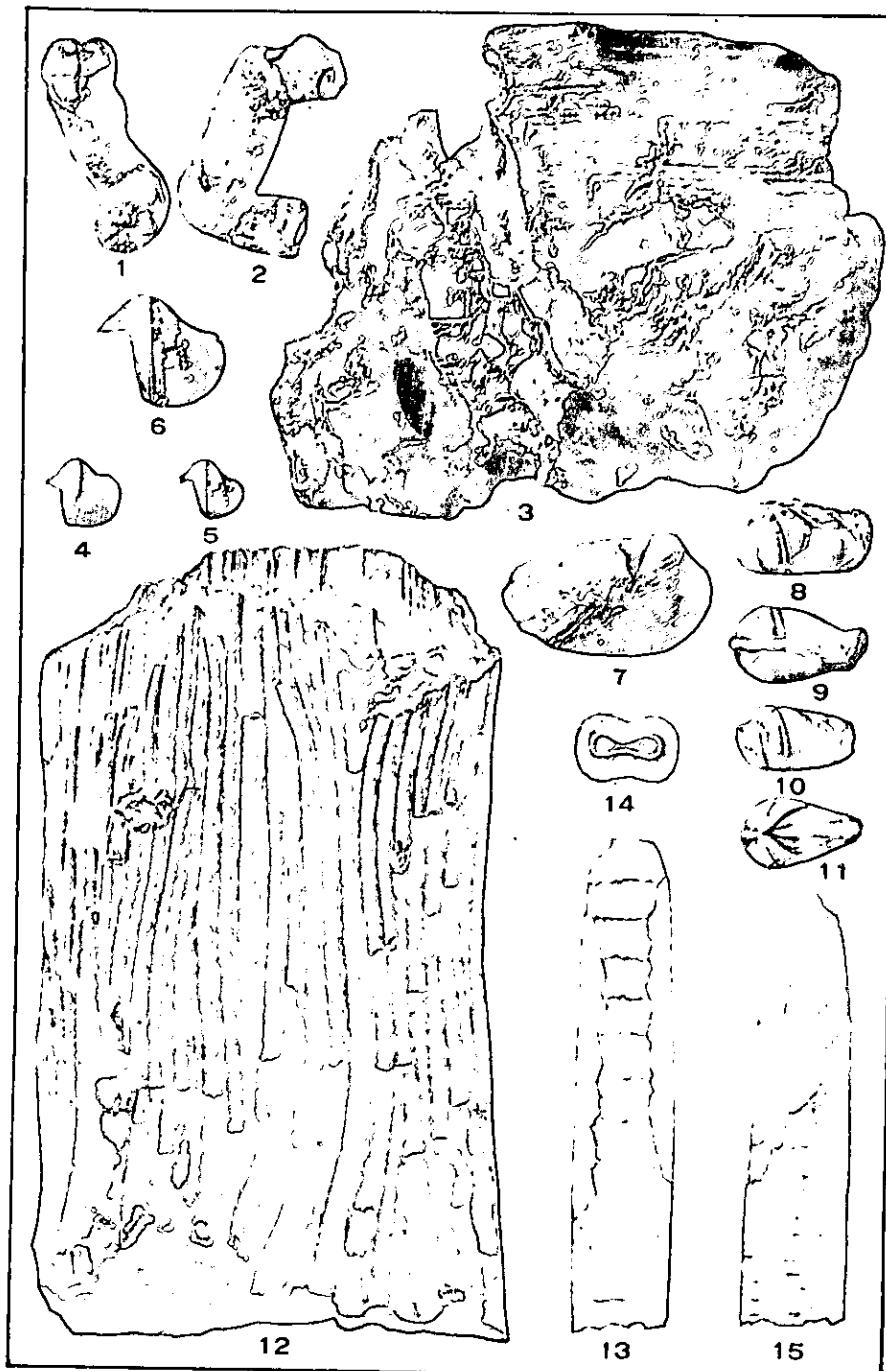


PELECYPODA.

EXPLANATION OF PLATE LXXIV.

- TEREDO IRREGULARIS Gabb,.....p. 656
1-2. Anterior and lateral views of a shell in position in its tube
of habitation.
3. Mass of fossil wood with included tubes. The original of
figures 1 and 2 was removed from this.
Merchantville clay-marl; Lenola, (163).
- TURNUS KÜMELI n. sp.,.....p. 652
4-5. Lateral views of two left valves.
6. The same as figure 5, (x2).
Marshalltown clay-marl; near Swedesboro, (177).
- PHOLAS CITHARA Morton,.....p. 651
7. Lateral view of an internal cast.
Woodbury clay; Lorillard, (102).
- MARTESIA CRETACEA Gabb,.....p. 654
8-9. Lateral and ventral views of an internal cast, (x2).
10-11. Lateral and cardinal views of an internal cast, (x2).
Marshalltown clay-marl; near Swedesboro, (177).
- POLORTHUS TIBIALIS (Morton),p. 659
12. View of a group of the tube casts, showing their usual form.
Nearly all have their lower ends broken off.
13. Enlarged view of the upper end of a tube showing the partial
septa of this part of the tube.
14. Enlarged view of the aperture.
15. Enlargement of the upper end of a cast, showing the
muscular scar. (All figures after Whitfield.)
Vincentown linesand.

PLATE LXXIV.



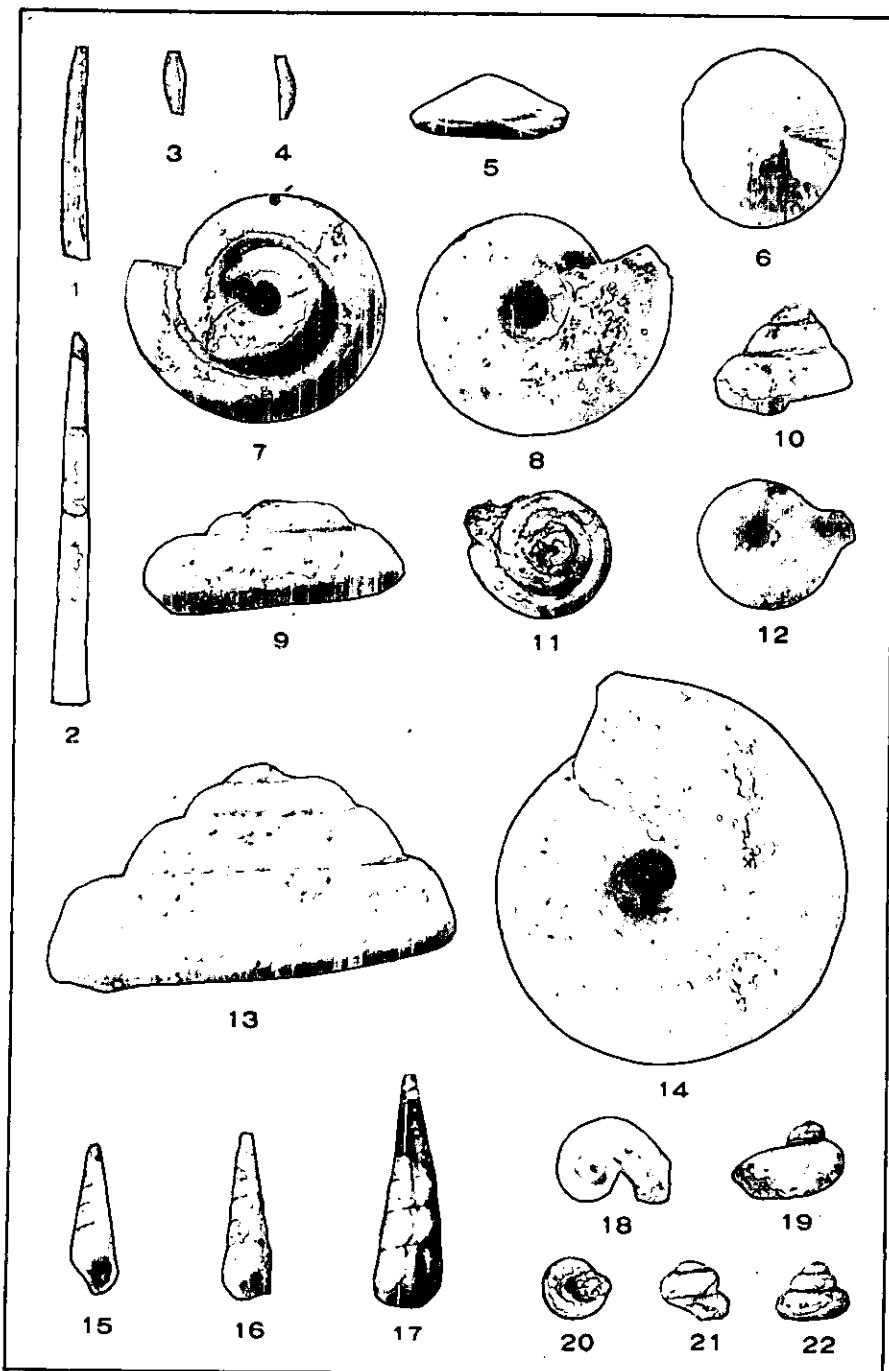
PELECYPODA.

II* PAL

EXPLANATION OF PLATE LXXV.

- DENTALIUM SUBARCUATUM Conrad.....p. 661
 1. View of a squeeze from a natural mould of the exterior.
 2. View of an internal cast.
Woodbury clay; Lorillard, (102).
- CADULUS OBNUCUS (Conrad),p. 663
 3-4. Lateral views from different sides of two internal casts.
 (x2).
Woodbury clay; Lorillard, (102).
- PATELLA TENTORIUM Morton,.....p. 663
 5-6. Lateral and vertical views of the type specimen, (x2).
Navesink marl; near Arneytown.
- PLEUROTOMARIA CROTALOIDES (Morton),.....p. 665
 7-9. Vertical, basal and lateral views of an internal cast.
Navesink marl; near Crawfords Corner, (126).
- PLEUROTOMARIA BRITTONI Whitfield,.....p. 667
 10-12. Lateral, vertical and basal views of the type specimen.
Manasquan marl; Farmingdale.
- PLEUROTREMA SOLARIFORMIS Whitfield,.....p. 667
 13-14. Lateral and basal views of one of Whitfield's type specimens.
Vincentown limcsand; Timber Creek.
- LEIOSTRACA CRETACEA (Conrad),.....p. 671
 15. Lateral view of a specimen (x4).
 16. Lateral view of a specimen (x4).
 17. Lateral view of a specimen (x3).
Woodbury clay; Haddonfield, (183).
- DELPHINULA NAVESINKENSIS n. sp.,.....p. 669
 18-19. Vertical and lateral views of the type specimen.
Navesink marl; near Walnford, (49).
- MARGARITA ABYSSINA (Gabb),.....p. 669
 20-21. Basal and lateral views of an internal cast.
Merchantville clay-marl; Lenola, (163).
 22. Lateral view of an internal cast.
Navesink marl; Middletown, (113).

PLATE LXXV.

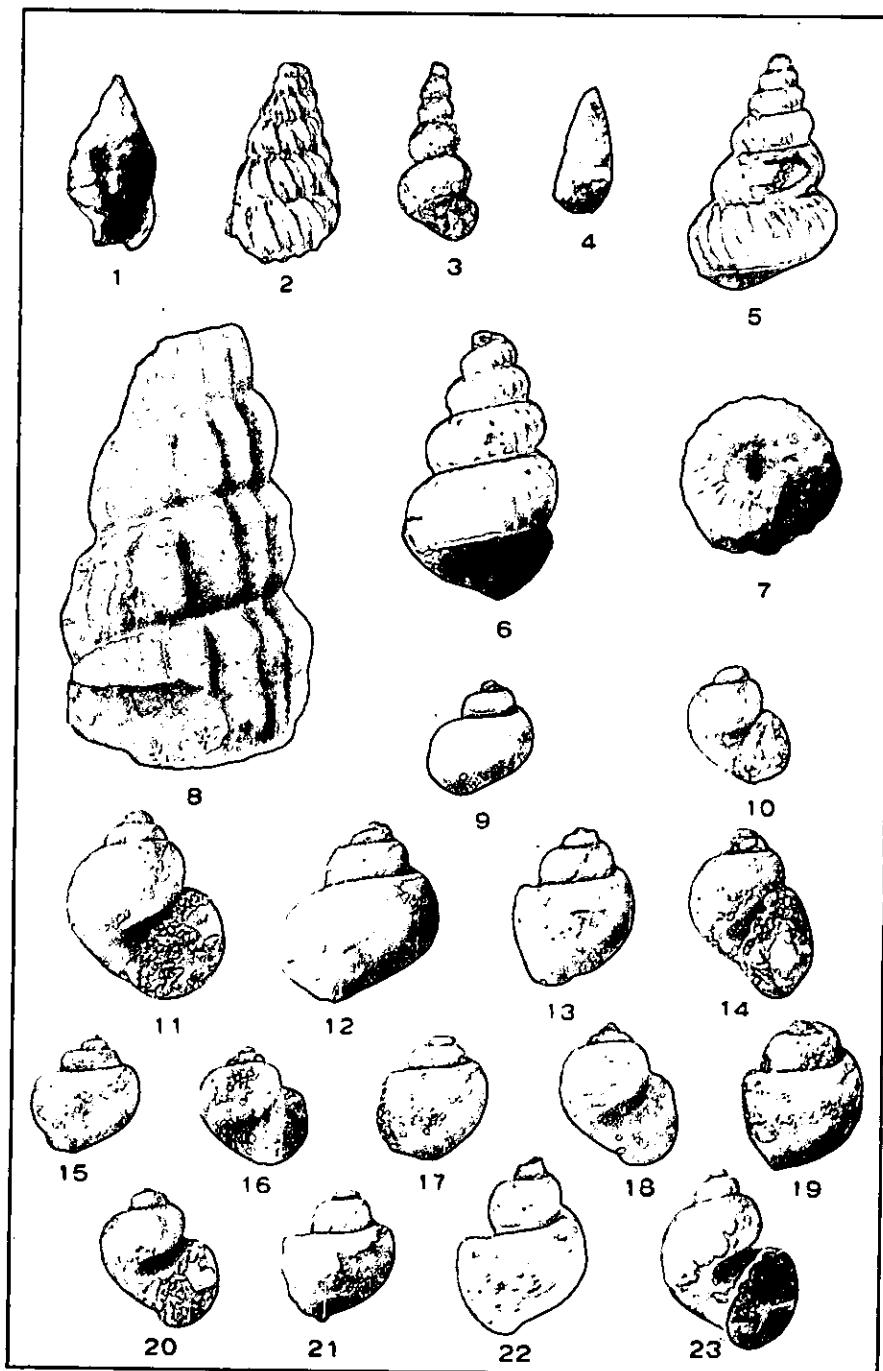


GASTROPODA.

EXPLANATION OF PLATE LXXVI.

- OBELISCUS CONELLUS Whittfield, p. 672
 1. Lateral view of the type specimen, enlarged.
 Woodbury clay; Haddonfield, (183).
- SCALA SILLMANI (Morton), p. 672
 2. Lateral view of a specimen from Alabama preserving the shell.
 Pal. Coll. Walker Mus., No. 10,835.
 3. Lateral view of an internal cast illustrated by Whitfield.
 Navesink marl; Holmdel.
- SCALA THOMASI Gabb ?, p. 674
 4. Lateral view of the specimen illustrated by Whitfield.
 Horizon and locality not known.
- CAVOSCALA ANNULATA (Morton), p. 676
 5-7. Two lateral views and a basal view from two nearly perfect specimens.
 Vincentown limestone; Timber Creek.
- SCALA ? HERCULES Whitfield, p. 675
 8. Lateral view of the type specimen. (After Whitfield.)
 Cliffwood clay ?; Cliffwood Point.
- LUNATIA HALLI Gabb, p. 677
 9-10. Two views of an internal cast.
 Merchantville clay-marl; Lenola, (163).
 11-14. Two views each of two specimens.
 Navesink marl; Mullica Hill, (169).
 15-16. Two views of one specimen.
 17-19. Views of three different specimens.
 Wenonah sand; near Crawfords Corner, (126°).
- LUNATIA ? PAUPERATA (Whitfield), p. 680
 20-23. Two lateral views each of the two type specimens.
 Navesink marl; Crosswicks Creek.

PLATE LXXVI.

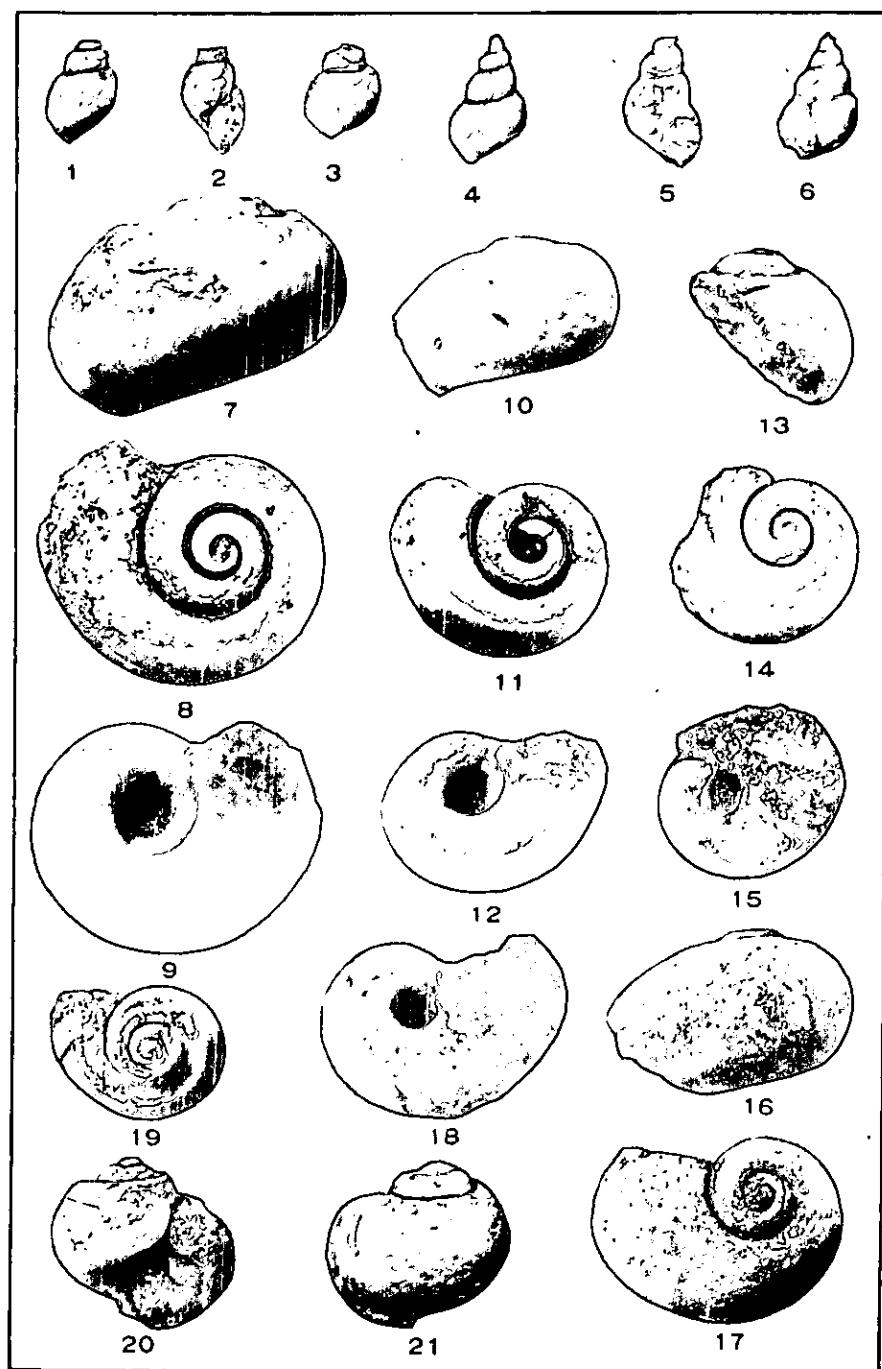


GASTROPODA.

EXPLANATION OF PLATE LXXVII.

- AMAUROPSIS MEEKANA Whitfield, p. 681
1-2. Two lateral views of an internal cast.
3. Lateral view of another internal cast.
Woodbury clay; Lorillard, (102).
- AMAUROPSIS PUNCTATA (Gabb), p. 682
4-6. Lateral views of three specimens, fig. 6 being that of the type specimen.
Navesink marl; Mullica Hill.
- GYRODES ABYSSINA (Morton), p. 683
7-9. Lateral, vertical and basal view of an internal cast.
Navesink marl; Mullica Hill (169).
- GYRODES CRENATA Conrad, p. 685
10-12. Lateral, vertical and basal views of an internal cast.
Merchantville clay-marl; Lenola, (163).
- GYRODES PETROSUS (Morton), p. 689
13-15. Lateral, vertical and basal views of an internal cast.
Navesink marl; Middletown, (113).
- 16-18. Lateral, vertical and basal views of an internal cast.
Wenonah sand; near Crawfords Corner, (126³).
- GYRODES ALISPIRA (Gabb), p. 687
19-21. Vertical and two lateral views of an internal cast.
Merchantville clay-marl; Lenola, (163).

PLATE LXXVII.

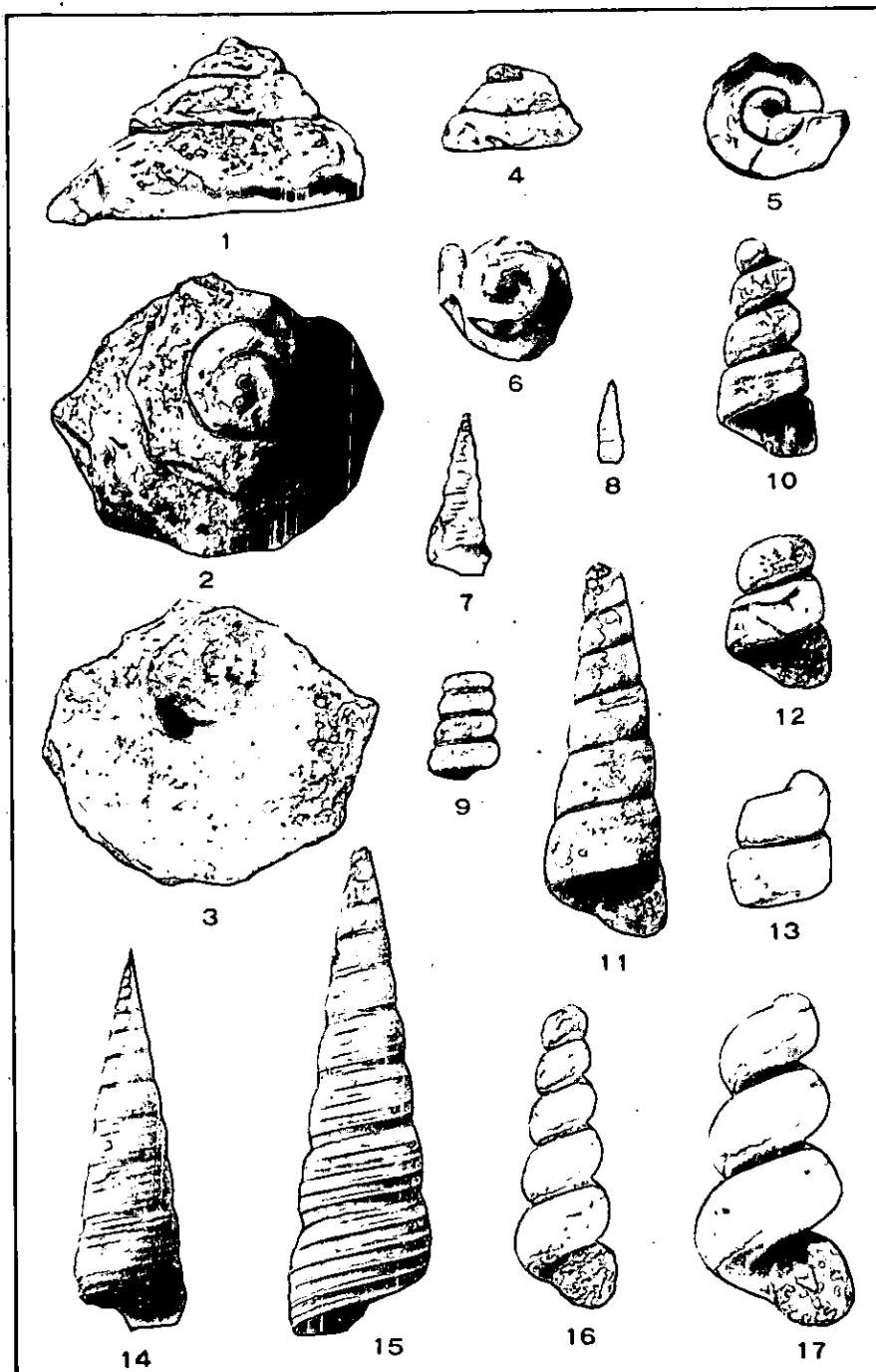


GASTROPODA.

EXPLANATION OF PLATE LXXVIII.

- XENOPHORA LEPROSA (Morton), p. 650
1-3. Lateral, vertical and basal views of an internal cast.
Navesink marl; Atlantic Highlands.
- ENDOPTYGM A UMEILICATA (Tuomey), p. 692
4-6. Lateral, basal and vertical views of an internal cast.
Merchantville clay-marl; Lenola, (163).
- TURRITELLA QUADRILIRA Johnson, p. 695
7. Lateral view of a plaster cast from a natural mould.
Cliffwood clay; Cliffwood Point, (105).
- TURRITELLA LENOLENSIS n. sp., p. 698
8. Lateral view of a plaster cast from a natural mould.
Merchantville clay-marl; Lenola, (163).
- TURRITELLA sp.,
9. Lateral view of an internal cast.
Manasquan marl; Farmingdale.
- TURRITELLA ENCRINOIDES Morton, p. 694
10-11. Lateral views of two internal casts illustrated by Whitfield.
Navesink marl.
- 12-13. Lateral views of two fragmentary internal casts.
Navesink marl; near Walnford, (149).
- TURRITELLA VERTEBROIDES Morton, p. 693
14-15. Lateral views of two specimens from Eufaula, Alabama,
preserving the shell.
Coll. U. S. Nat. Mus., No. 27,128.
16. Lateral view of an internal cast.
Navesink marl; near Walnford, (149).
17. Lateral view of a large internal cast illustrated by Whitfield.
Navesink marl.

PLATE LXXVIII.

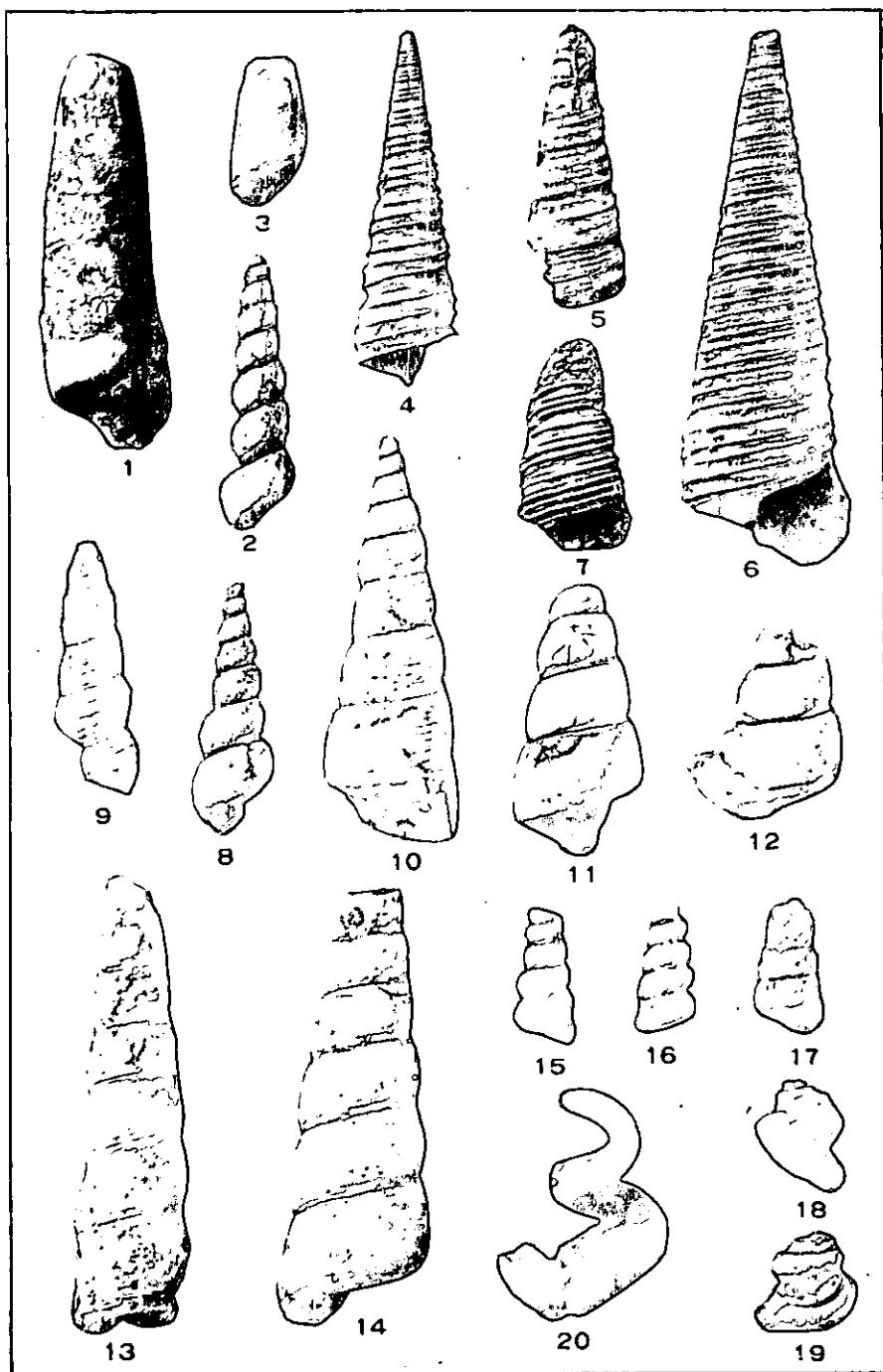


GASTROPODA.

EXPLANATION OF PLATE LXXIX.

- TURRITELLA LIPPINCOTTI Whitfield,..... p. 698
 1. Lateral view of one of the type specimens.
Navesink marl; Holmdel.
- TURRITELLA JERSEYENSIS n. sp.,..... p. 702
 2. Lateral view of an internal cast.
 3. Lateral view of a plaster cast from a part of the natural
 mould of the same.
Cliffwood clay; Cliffwood Point, (185).
- TURRITELLA TRILIRA Conrad,..... p. 699
 4. Lateral view of a specimen from Eufaula, Alabama, preserv-
 ing the shell.
Coll. U. S. Nat. Mus., No. 21,123.
 5. View of a plaster cast from a natural mould of the exterior.
Wenonah sand; near Crawfords Corner, (126³).
- TURRITELLA TIPPANA Conrad,..... p. 700
 6. Lateral view of a specimen from Ripley, Mississippi, preserv-
 ing the shell.
Coll. U. S. Nat. Mus., No. 20,419.
 7. An imperfect specimen preserving the shell.
Marshalltown clay-marl; near Swedesboro, (177).
- TURRITELLA sp.
 8. Lateral view of an internal cast.
 9. Lateral view of a plaster cast from a natural mould of the
 exterior.
Wenonah sand; near Crawfords Corner, (126³).
- TURRITELLA LORILLARDENSIS n. sp.,..... p. 703
 10. Lateral view of a plaster cast from a natural mould.
 11-12. Lateral views of two imperfect internal casts.
Woodbury clay; Lorillard, (102).
- TURRITELLA MERCHANTVILLENSIS n. sp.,..... p. 704
 13. Lateral view of a plaster cast from a natural mould.
Merchantville clay-marl; near Jamesburg, (140).
- TURRITELLA MARSHALLTOWNENSIS n. sp.,..... p. 705
 14. Lateral view of a specimen preserving the shell.
Marshalltown clay-marl; near Swedesboro, (177).
- TURRITELLA GRANULICOSTA Gabb,..... p. 696
 15-16. Two lateral views of the type of *T. compacta* Whitf.
 17. Lateral view of the type of *T. granulicosta* Gabb.
Navesink marl ?.
- SILIQUARIA PAUPERATA Whitfield,..... p. 705
 18-19. Two lateral views of one of the type specimens.
 20. Lateral view of another of the type specimens, (x2).
Navesink marl.

PLATE LXXIX.



GASTROPODA.

EXPLANATION OF PLATE LXXX.

1. Slab of sandstone containing casts of *Turritella* sp., and a mould of a small pelecypod shell, probably *Cymbophora lineata*.

Raritan; Sayreville.

PLATE LXXX.

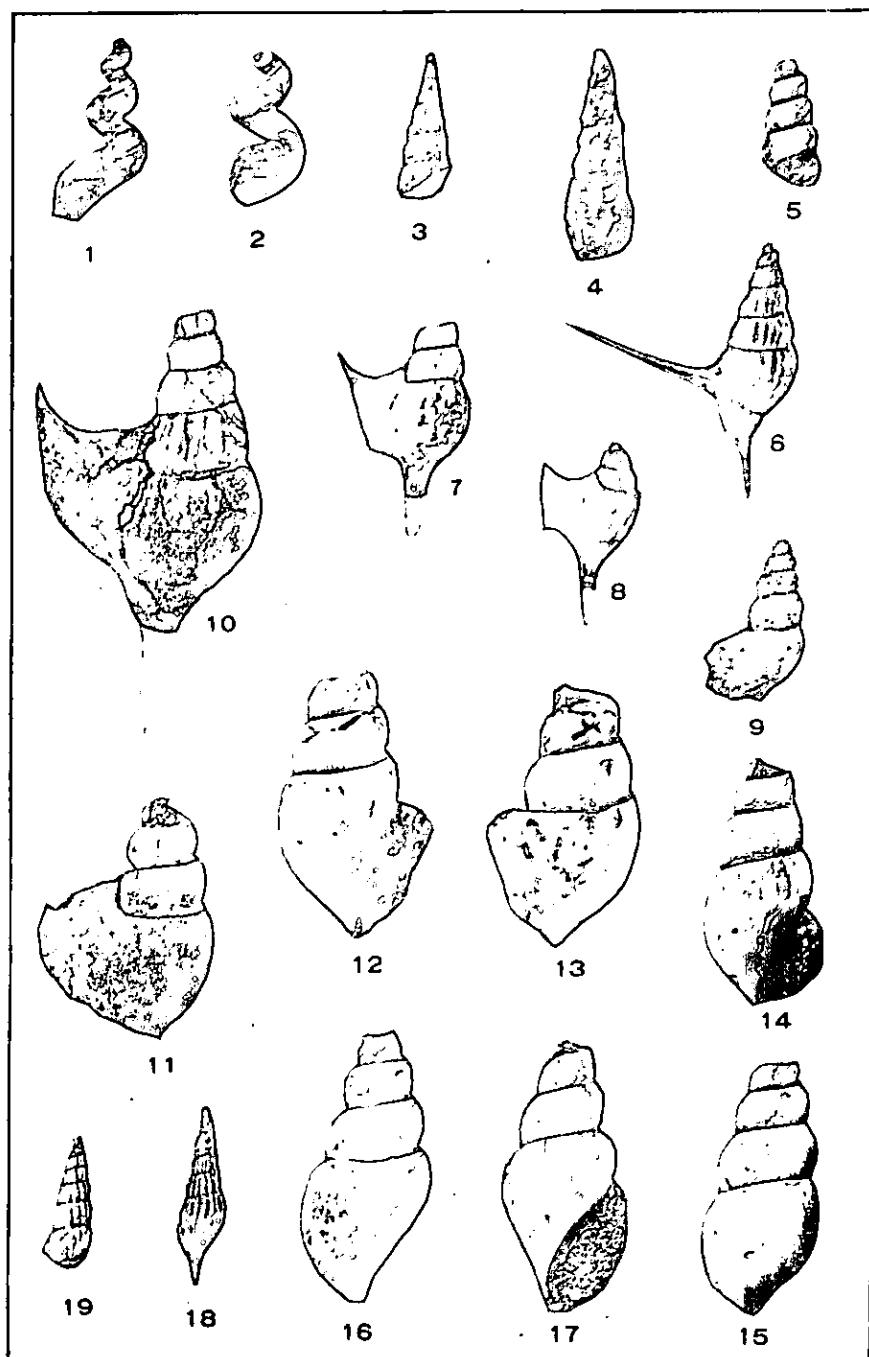


GASTROPODA.

EXPLANATION OF PLATE LXXXI.

- LAXISPIRA LUMBRICALIS Gabb, p. 706
 1. Lateral view of a squeeze from a natural mould.
 2. Lateral view of the internal cast of the same.
 Woodbury clay; Lorillard, (102).
- CERITHIUM PILSBRYI Whitfield, p. 708
 3-4. Lateral views of two plaster casts from natural moulds of the exterior.
 5. Lateral view of an internal cast.
 Merchantville clay-marl; Lenola, (163).
- ANCHURA SOLITARIA Whitfield, p. 714
 6. Lateral view of a nearly perfect specimen.
 Merchantville clay-marl; near Jamesburg, (141).
- ANCHURA ROSTRATA (Gabb), p. 709
 7. Lateral view of a specimen showing the form of the expanded aperture.
 Merchantville clay-marl; Lenola, (163).
 8. Lateral view of a specimen showing the expanded aperture.
 Merchantville clay-marl; near Matawan, (101).
 9. Lateral view of a specimen referred doubtfully to this species.
 Wenonah sand; near Cradfords Corner, (126³).
- ANCHURA PENNATA (Morton), p. 711
 10. Lateral view of a specimen showing the expended aperture.
 Navesink marl; Holmdel.
 11. Lateral view of a specimen whose expanded aperture is partially preserved.
 Navesink marl; Mullica Hill, (169).
12-13. Two lateral views of the type specimen of *A. compressa* Whit.
 Navesink marl; Upper Frechold.
14-15. Two lateral views of an incomplete internal cast.
 Navesink marl; Middletown, (113)
16-17. Two lateral views of an incomplete internal cast.
 Navesink marl; Mullica Hill, (169).
- ANCHURA PERGRACILIS Johnson, p. 713
 18. Lateral view of a squeeze from a natural mould of the exterior.
 Woodbury clay; near Matawan, (101).
 19. Lateral view of a plaster cast from a natural mould, doubtfully referred to this species.
 Cliffwood clay; Cliffwood Point, (185).

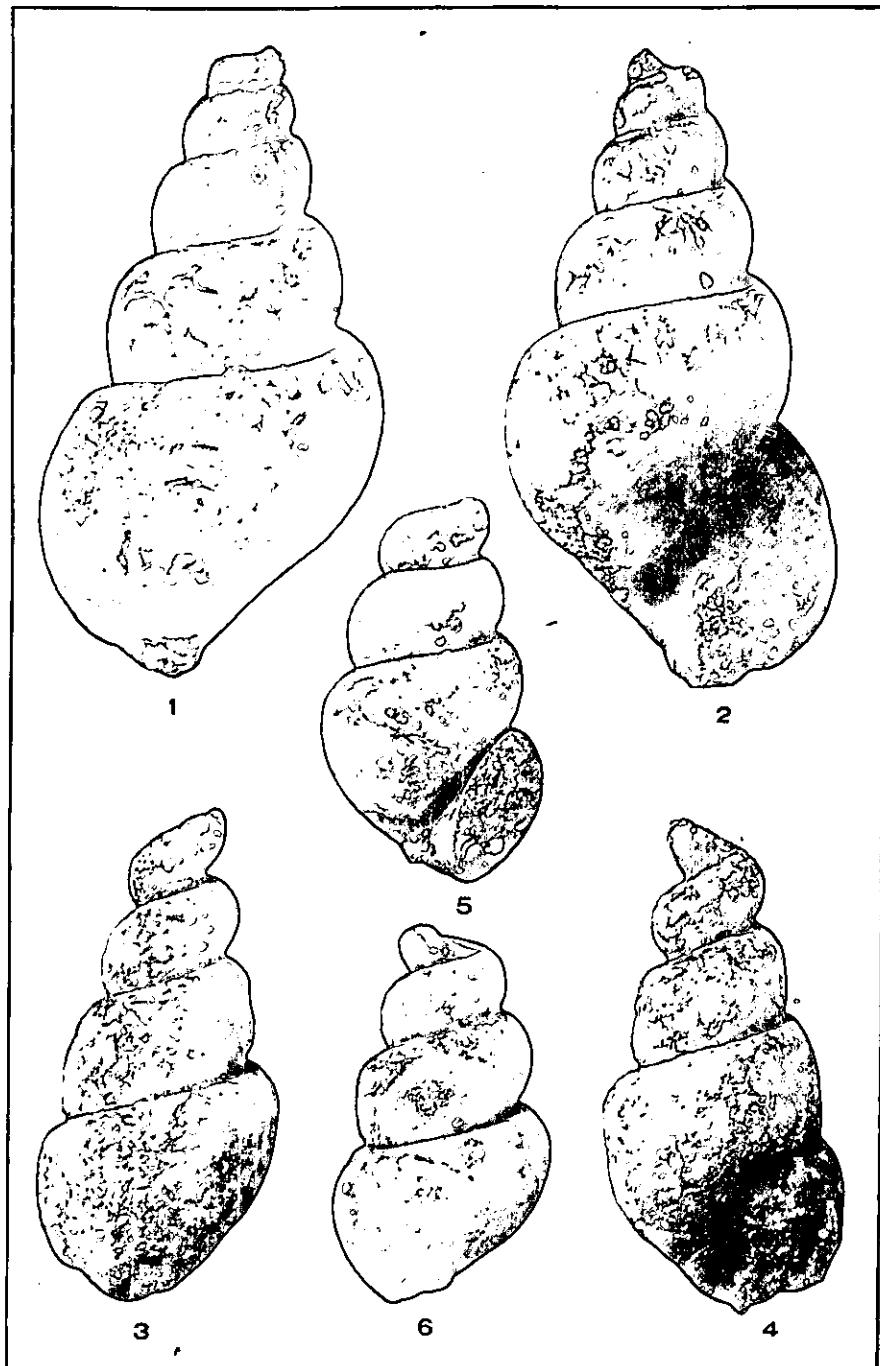
PLATE LXXXI.



GASTROPODA.

EXPLANATION OF PLATE LXXXII.

- ANCHURA ABRUPTA Conrad, p. 715
1-2. Two lateral views of the type of *Rostellaria nobilis* Whitf.
 Navesink marl?; no locality.
3-4. Two lateral views of the type of *Anchura pagodaformis*
 Whitf.
 Navesink marl; Monmouth County.
5-6. Two lateral views of the type of *Rostellaria hebe* Whitf.
 Navesink marl; Mullica Hill.



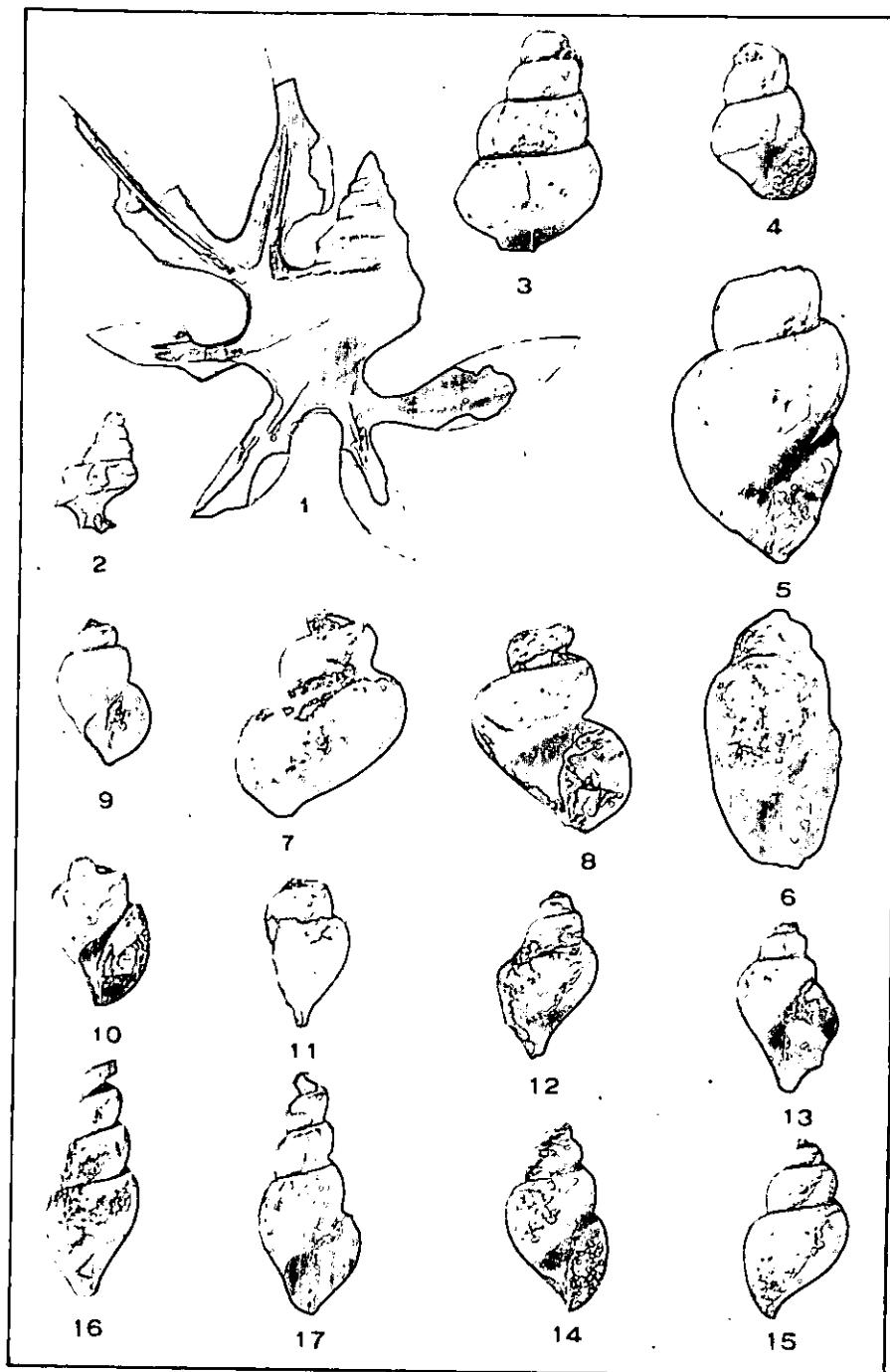
GASTROPODA.

12* PAL

EXPLANATION OF PLATE LXXXIII.

- PETROCERELLA TIPPANA (Conrad), p. 718
 1. Lateral view of a very perfect specimen from Texas.
 Chatfield, Texas, Pal. Coll. U. S. Nat. Mus., No. 26,994.
2. Lateral view of a small internal cast.
 Wenonah sand; near Crawfords Corner, (126³).
- ANCHURA ABRUPTA Conrad, p. 715
 3-4. Lateral views of two small, incomplete internal casts.
 Navesink marl; near Crawfords Corner, (126³).
- ANCHURA ARENARIA (Morton), p. 717
 5. Lateral view of the type specimen.
 Navesink marl.
- PUGNELLUS DENSATUS Conrad, p. 720
 6. Lateral view of an internal cast referred to this species.
 Wenonah sand; near Crawfords Corner, (126³).
- TURBINOPSIS ? MAJOR Whitfield, p. 799
 7-8. Two lateral views of the type specimen.
 Navesink marl; Navesink hills.
- ROSTELLARIA CURTA Whitfield, p. 721
 9, 10-11, 12-13. Lateral views of the three type specimens.
 Navesink marl; Crosswicks Creek.
- TURBINOPSIS ? ELEVATA Whitfield, p. 797
 14-15. Two lateral views of a nearly complete internal cast.
 Navesink marl; Mullica Hill, (169).
- ROSTELLARIA FUSIFORMIS Whitfield, p. 722
 16-17. Two lateral views of the type specimen.
 Navesink marl; Crosswicks creek.

PLATE LXXXIII.

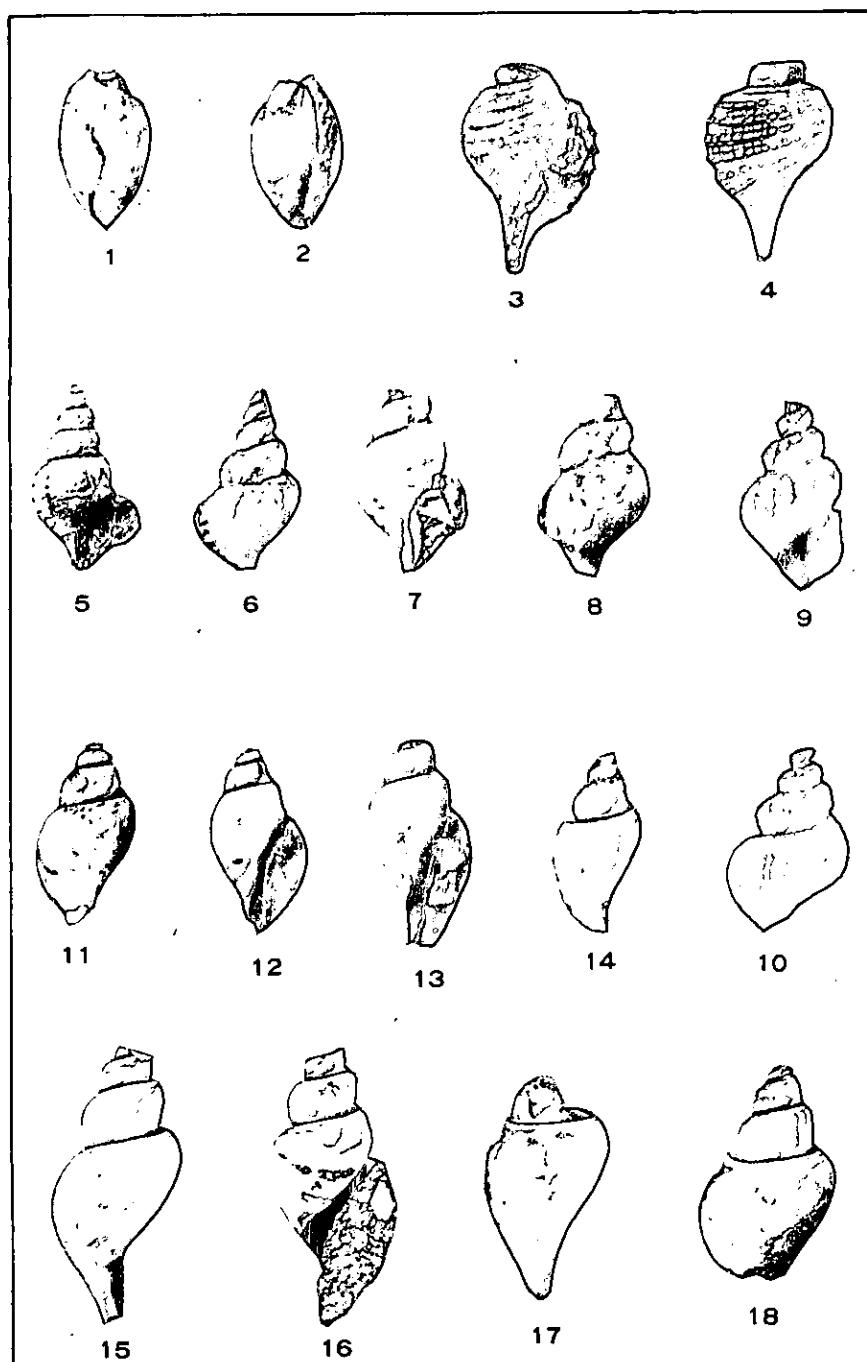


GASTROPODA.

EXPLANATION OF PLATE LXXXIV.

- CYPRAEA MORTONI Gabb,.....p. 722
1-2. Two views of an internal cast.
Navesink marl; Atlantic Highlands.
- PYRULA PRECEDENS (Whitfield),.....p. 724
3-4. Two lateral views of the type specimen. (After Whitfield.)
Navesink marl; near Holmdel.
- TRITON LORILLARDENSIS n. sp.,.....p. 725
5-6. Two lateral views of the type specimen, the spire partially restored.
Woodbury clay; Lorillard, (102).
- TRITON PRAECEDENS Whitfield,.....p. 726
7-8. Two lateral views of the type specimen.
Navesink marl; Mullica Hill.
- TRACHYTRITON ? HOLMDELENSE Whitfield,.....p. 728
9-10. Two lateral views of the type specimen. (After Whitfield.)
Navesink marl; Holmdel.
- TRACHYTRITON ATLANTICUM Whitfield,.....p. 727
11-12, 13, 14. Lateral views of the three type specimens.
Navesink marl; Crosswicks Creek.
- TRACHYTRITON ? MULTIVARICOSUM Whitfield,.....p. 729
15-16, 17, 18. Lateral views of the three type specimens.
Navesink marl; Crosswicks Creek.

PLATE LXXXIV.

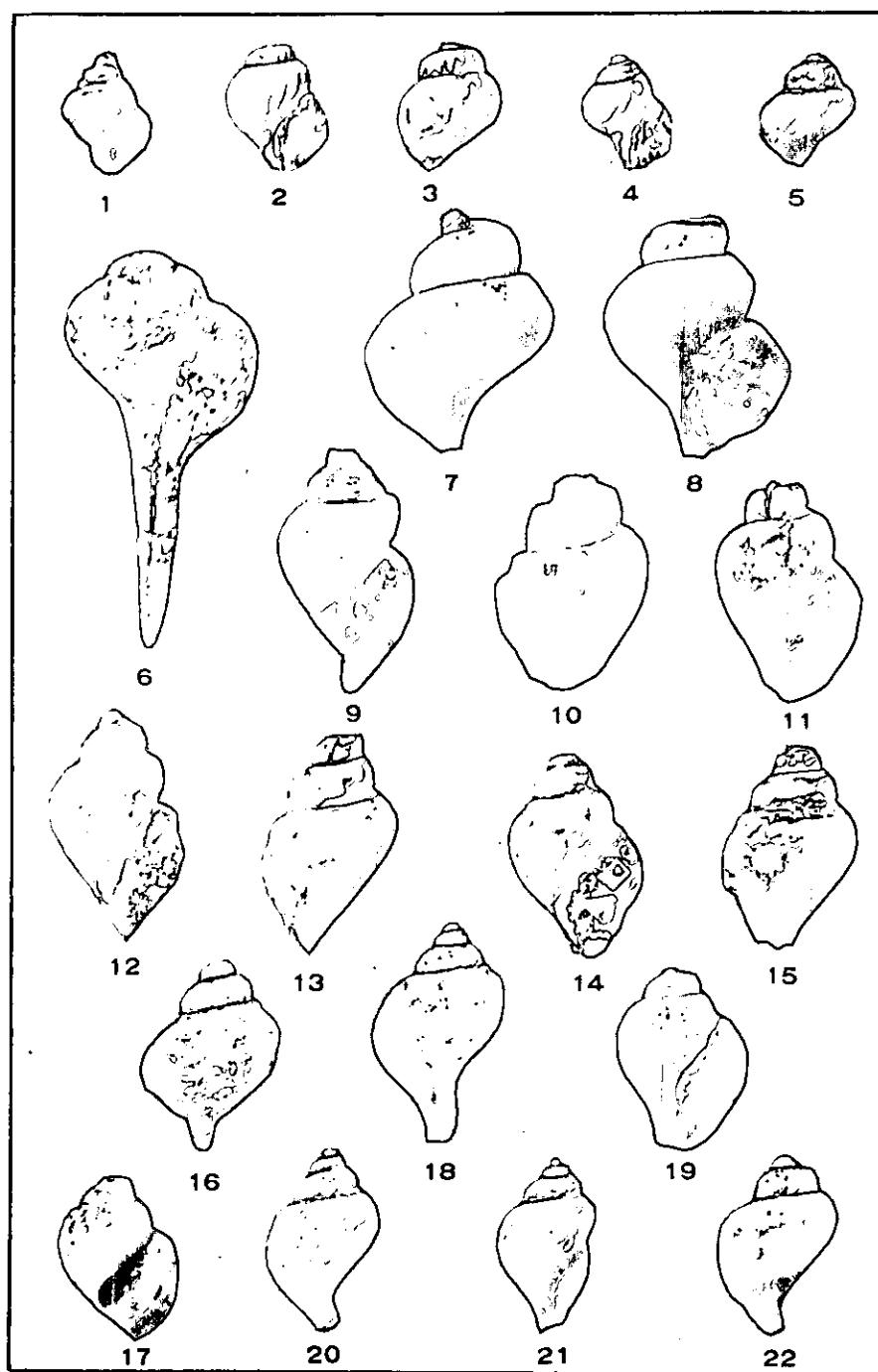


GASTROPODA.

EXPLANATION OF PLATE LXXXV.

- PERISSOLAX DUBIA (Gabb).....p. 730
 1. Lateral view of an internal cast.
Navesink marl; Mullica Hill.
- 2-3. Two lateral views of an internal cast.
Navesink marl; near Crawfords Corner, (126').
- 4-5. Two lateral views of one of the types of *Tritonidea obesa* Whitf.
Navesink marl; Crosswicks Creek.
- PERISSOLAX TRIVOLVA Gabb,.....p. 731
 6. Lateral view of the type specimen.
Vincentown limesand, Timber Creek.
- PYRIFUSUS MEEKI Whitfield,.....p. 732
 7-8. Two lateral views of a nearly perfect internal cast. One of the type specimens.
Navesink marl; Mullica Hill.
- PYRIFUSUS MULLICAENSIS (Gabb),.....p. 733
 9. Lateral view of an internal cast.
 10-11. Two lateral views of another internal cast.
Navesink marl; Mullica Hill.
- 12-13. Two lateral views of the type specimen of *Pyrifusus cuneus* Whitf.
Navesink marl; Freehold.
- 14-15. Two lateral views of the type specimen of *Eripachya paludinaformis* Whitf.
Navesink marl; Crosswicks Creek.
- PYRIFUSUS ERRATICUS Whitfield,.....p. 736
 16. Lateral view of an internal cast.
Cliffwood clay; Cliffwood Point, (105).
- PYRIFUSUS MACFARLANDI Whitfield,.....p. 735
 17. Lateral view of an internal cast.
Navesink marl; Mullica Hill, (169).
- HERCORHYNCHUS JERSEYENSIS n. sp.,.....p. 737
 18. Plaster cast of a natural mould of the exterior of this species.
 19-20. Two lateral views of the internal cast of the same individual.
 21-22. Two lateral views of another internal cast.
Cliffwood clay; Cliffwood Point, (185).

PLATE LXXXV.



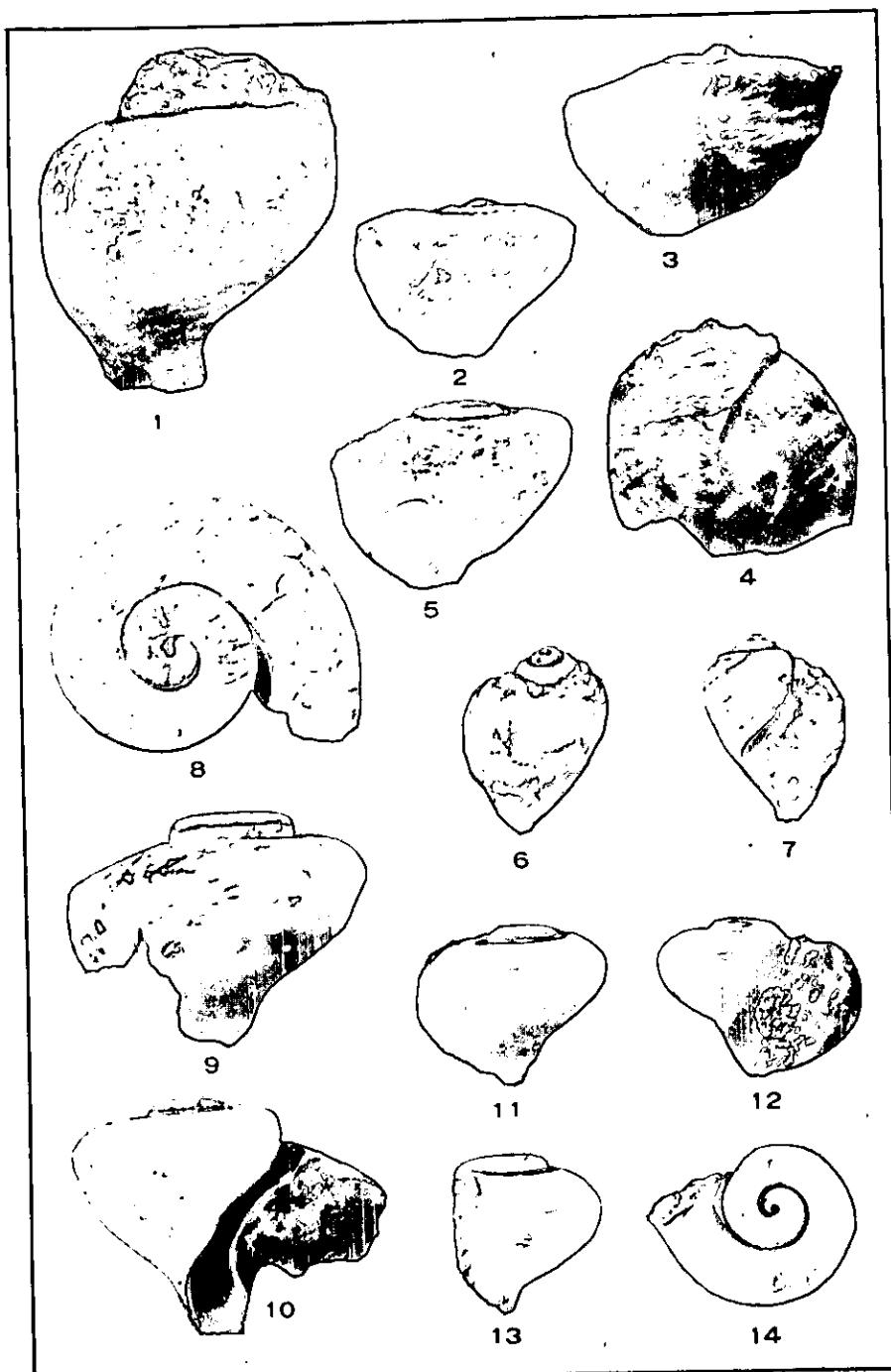
GASTROPODA.

EXPLANATION OF PLATE LXXXVI.

- NASSA GLOBOSA Gabb,.....p. 738
1. Lateral view of a somewhat crushed internal cast.
Wenonah sand; near Marlboro, (130).
- PYROPSIS RICHARDSONI (Tuomey),.....p. 739
2. Lateral view of a small internal cast.
Navesink marl; Atlantic Highlands, (108).
- 3-4. Lateral and vertical views of a plaster cast from a natural mould partially showing the external characters of the shell.
5. Lateral view of the internal cast of the same individual.
Merchantville clay-marl; near Matawan, (101).
- PYROPSIS PYRULOIDEA (Gabb),.....p. 742
6-7. Two lateral views of the type specimen.
Navesink marl; Burlington County.
- PYROPSIS SEPTEMPLIRATA Gabb,.....p. 744
8-10. Vertical and two lateral views of an internal cast, illustrated as *P. perlata* by Whitfield.
Navesink marl; Freehold.
- PYROPSIS PLANIMARGINATA (Whitfield),.....p. 745
11-14. Three lateral views and one vertical view of the type specimen.
Navesink marl; Crosswicks Creek.

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PLATE LXXXVI.

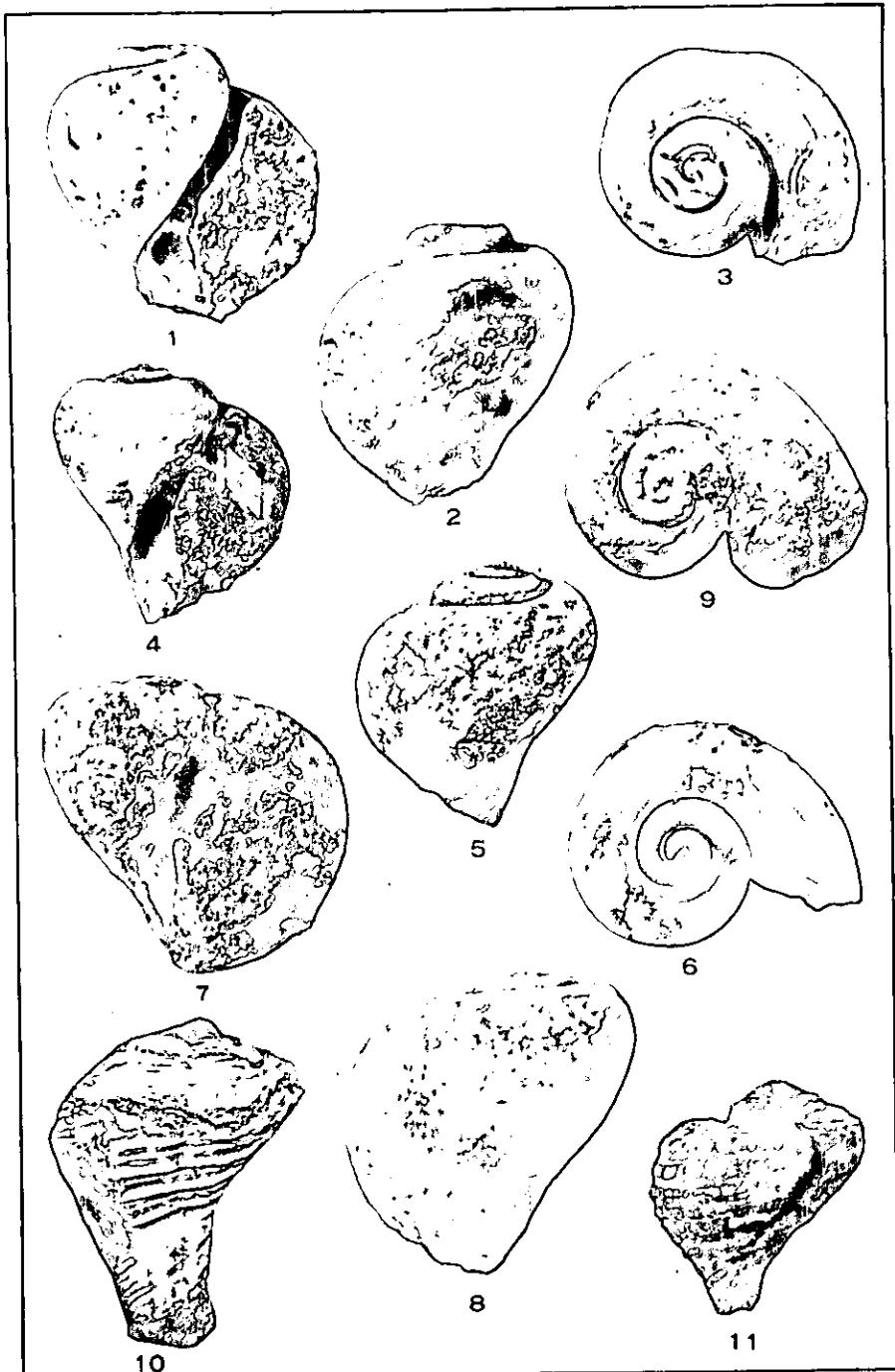


GASTROPODA.

EXPLANATION OF PLATE LXXXVII.

- PYROPSIS TROCHIFORMIS (Tuomey), p. 746
- 1-3. Two lateral views and a vertical view of a specimen illustrated by Whitfield as *P. reileyi*.
Navesink marl; Holmdel.
- 4-6. Two lateral views of one specimen and a vertical view of another individual.
Navesink marl; Mullica Hill, (169).
- 7-9. Two lateral views and a vertical view of a specimen illustrated by Whitfield as *P. richardsoni*.
Navesink marl; Monmouth County.
10. Lateral view of a specimen partially preserving the shell.
Marshalltown clay-marl; near Swedesboro, (177).
11. Lateral view of a specimen illustrated by Whitfield partially preserving the external characters.
Navesink marl.

PLATE LXXXVII.

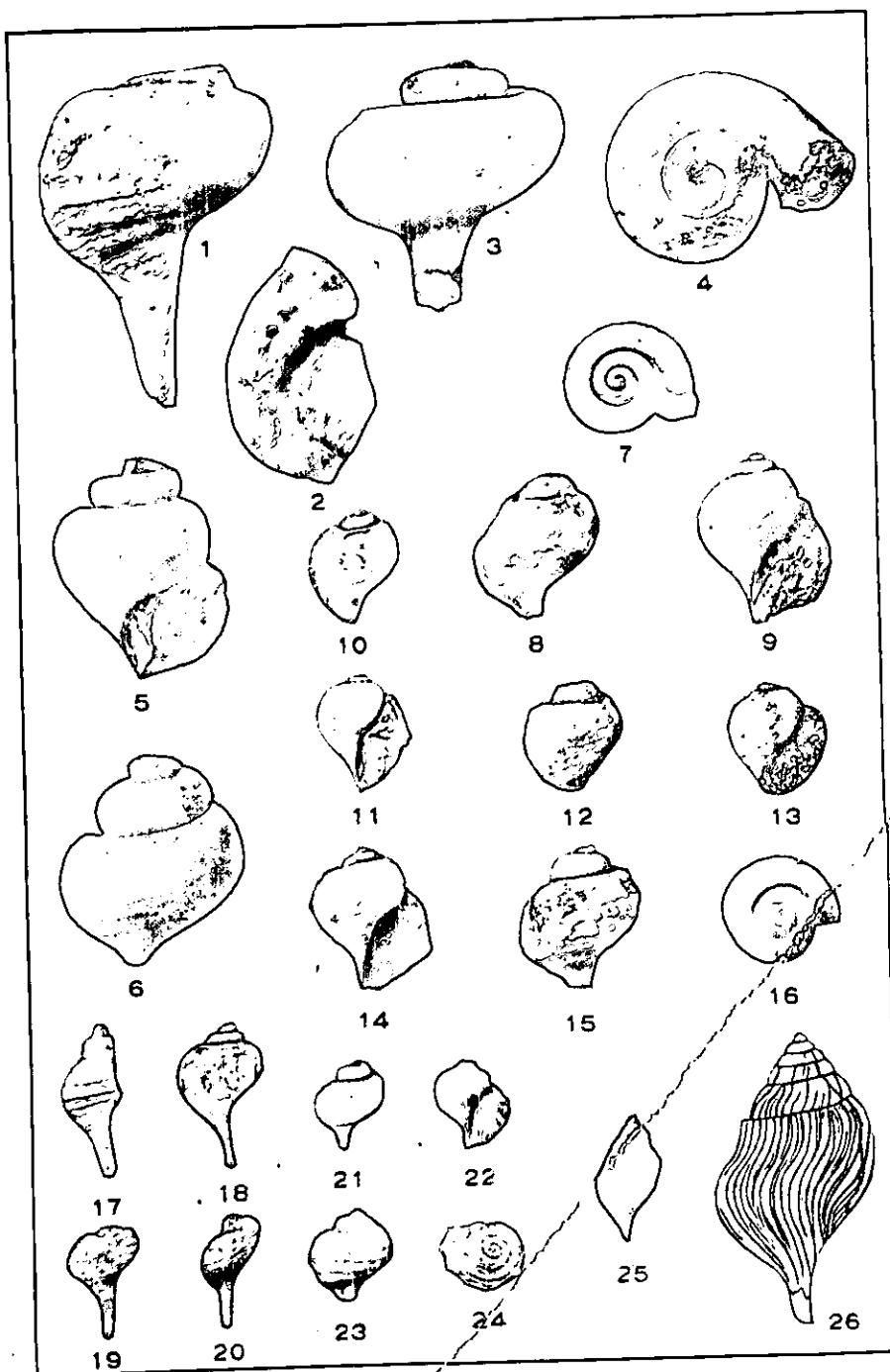


GASTROPODA.

EXPLANATION OF PLATE LXXXVIII.

- PYROPSIS SEPTEMLIRATA** Gabb,.....p. 744
 1-2. Lateral and vertical views of a plaster cast from a natural mould, showing some of the external features of the shell.
 3-4. Lateral and vertical views of the internal cast of the same individual.
Navesink marl; Mullica Hill, (169).
- PYROPSIS ? OBESA** Whitfield,.....p. 748
 5-6. Two lateral views of the type specimen. (After Whitfield.)
Navesink marl; Mullica Hill.
- PYROPSIS RETIFER** (Gabb),.....p. 749
 7-9. Vertical, and two lateral views of a nearly complete internal cast.
Navesink marl.
 10-11. Two vertical views of the type specimen of *Dolium multiliratum* Whif.
Navesink marl; Freehold.
 12-13. Two lateral views of an internal cast.
Wenonah sand; near Crawfords Corner, (126°).
- PYROPSIS WHITFIELDI** n. sp.,.....p. 750
 14-16. Two lateral views and a vertical view of the type specimen.
 Illustrated by Whitfield as *P. octolirata* Con.
Navesink marl; near Walnford.
- PYROPSIS OCTOLIRATA** (Conrad),.....p. 751
 17. Lateral view of a plaster cast from a natural mould, showing the external characters of the shell.
 18. Internal cast of the same individual.
Woodbury clay; Lorillard, (102).
- PYROPSIS** sp.
 19. Lateral view of a somewhat distorted individual.
Red Bank sand; Shrewsbury River, (119).
- PYROPSIS LENOLENSIS** n. sp.,.....p. 752
 20. Lateral view of a distorted individual showing the elongate anterior canal.
 21-22. Two lateral views of an internal cast.
 23-24. Lateral and vertical views of a plaster cast from a natural mould of the same individual.
Merchantville clay-marl; Lenola, (163).
- EUTHRIA ? FRAGILIS** Whitfield,p. 753
 25. Lateral view of the type specimen.
 26. Enlarged outline view of the same. (After Whitfield.)
Woodbury clay; Haddonfield, (183).

PLATE LXXXVIII.

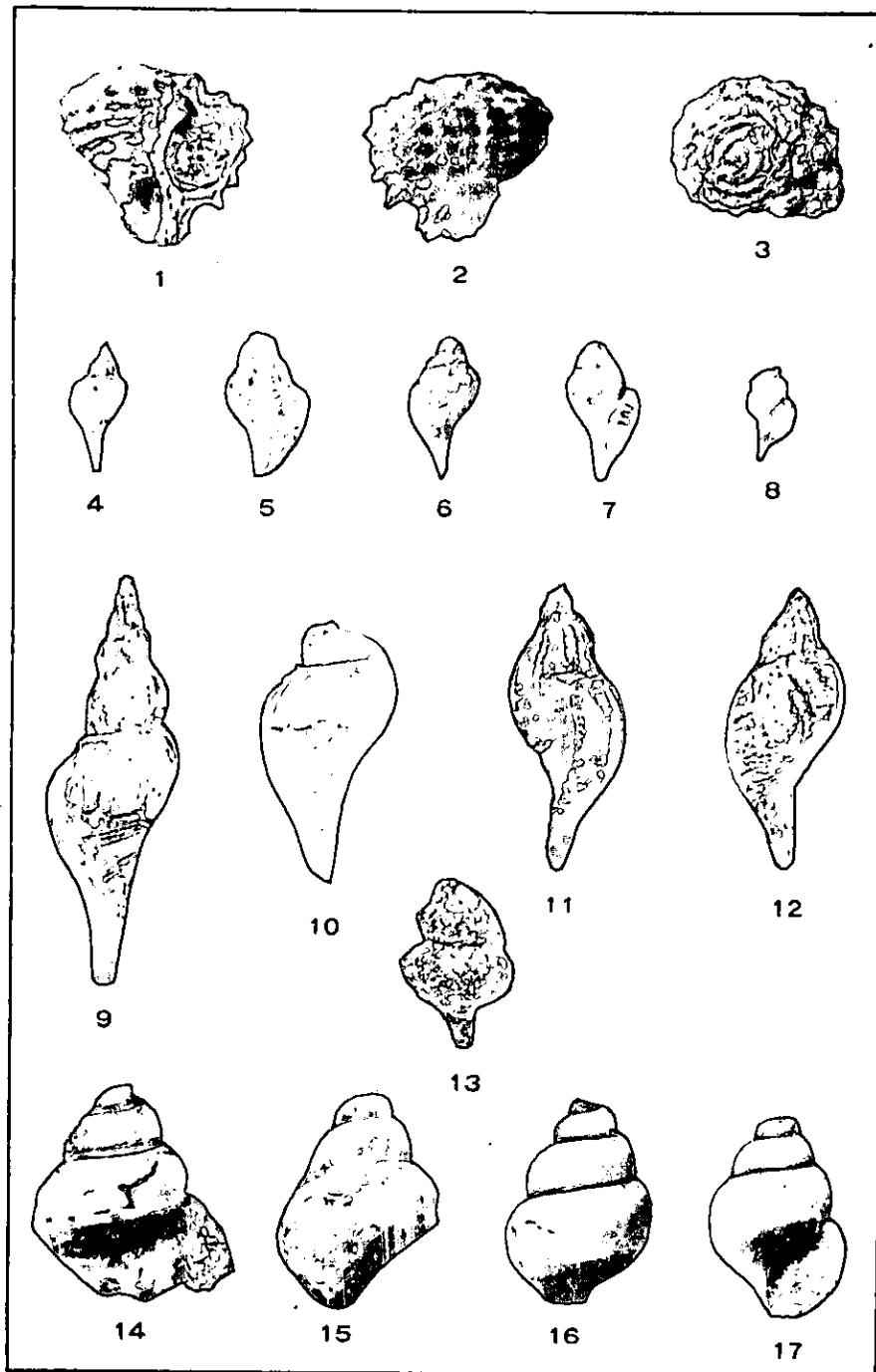


GASTROPODA.

EXPLANATION OF PLATE LXXXIX.

- RAPANA STANTONI n. sp., p. 754
1-3. Two lateral views and a vertical view of the type specimen.
Chatfield, Texas, Coll. U. S. Nat. Mus.; No. 21,070.
- FUSUS HOLMESIANUS Gabb, p. 755
4. Lateral view of a plaster cast from a natural mould of the exterior.
Wenonah sand; near Crawfords Corner, (126^a).
- FUSUS sp.
5. Lateral view of a plaster cast from a natural mould of the exterior.
Wenonah sand; near Crawfords Corner, (126^a).
- FUSUS CLIFFWOODENSIS n. sp., p. 756
6-7. Two lateral views of a plaster cast from a natural mould of the exterior.
Cliffwood clay, near Matawan, (107).
- CRYPTORHYTIS OBLIQUICOSTATA Gabb, p. 759
8. Squeeze from a natural mould preserving some of the external characters of this species.
Woodbury clay; Lorillard, (102).
- FUSUS LORILLARDENSIS n. sp., p. 758
9. Lateral view of a plaster cast from a natural mould of the exterior.
10. Lateral view of the incomplete internal cast of the same individual.
Woodbury clay; Lorillard, (102).
- FUSUS HOLMDELENIS Whitfield, p. 757
11-12. Two lateral views of the type specimen.
Navesink marl; Holmdel.
- SERRIFUSUS NODOCARINATUS Whitfield, p. 760
13. Lateral view of the type specimen.
Navesink marl; Holmdel.
- SERRIFUSUS CROSSWICKENSIS Whitfield, p. 761
14-15. Two lateral views of the type specimen.
Navesink marl; Crosswicks Creek.
16-17. Two lateral views of another internal cast.
Navesink marl; Atlantic Highlands.

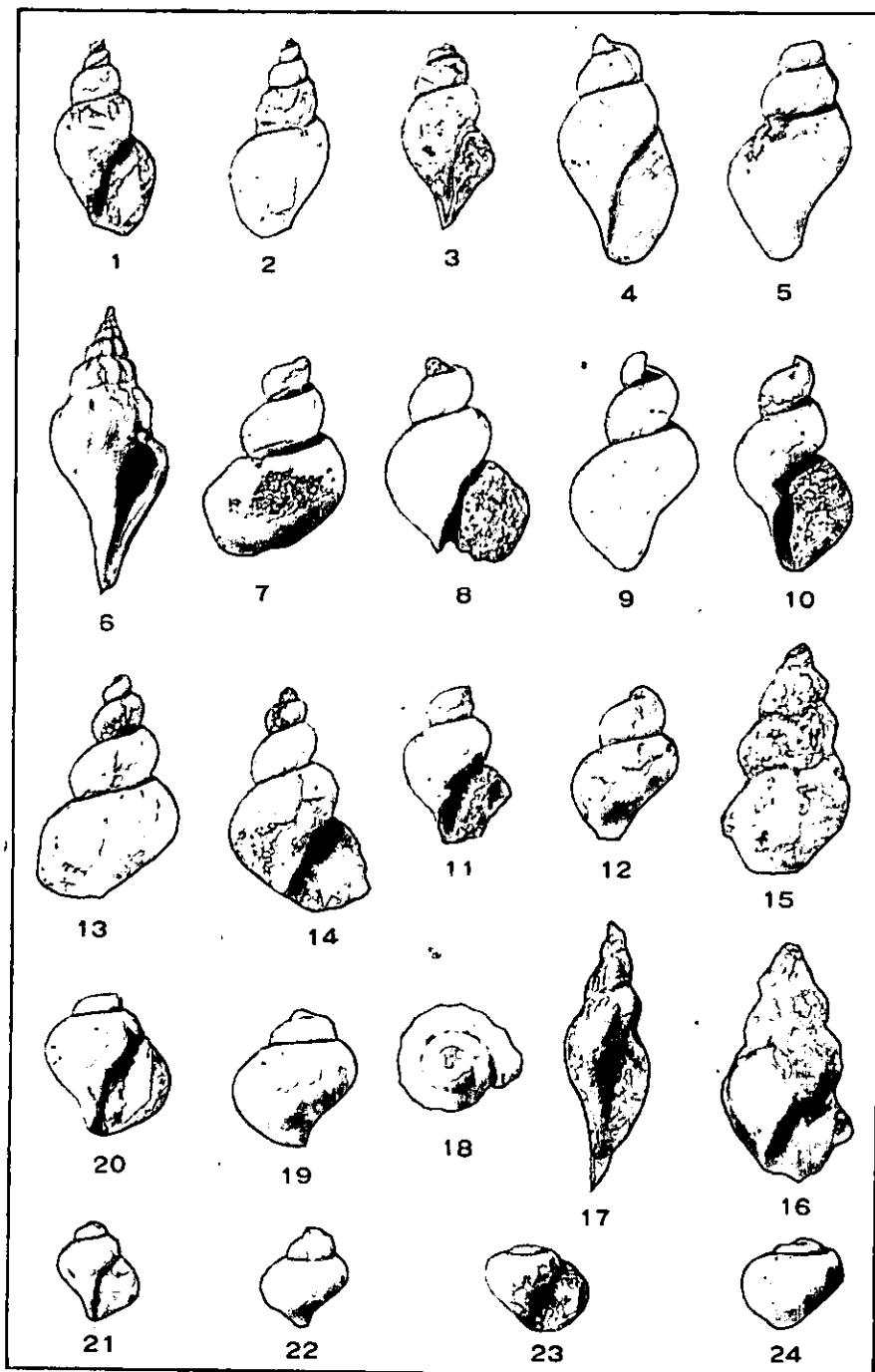
PLATE LXXXIX.



GASTROPODA.

EXPLANATION OF PLATE XC.

- ODONTOFUSUS MEDIANUS Whitfield, p. 761
1-2, 3. Lateral views of the type specimens illustrated by Whitfield.
Navesink marl.
4-5. Two lateral views of a larger internal cast.
Navesink marl; near Walnford, (149).
6. Lateral view of a shell referred to this species.
Ripley, Mississippi, Coll. U. S. Nat. Mus., No. 20,490.
- ODONTOFUSUS TYPICUS Whitfield, p. 763
7-12. Two lateral views each of three type specimens used by Whitfield.
Navesink marl; Crosswicks Creek.
13-14. Two lateral views of an internal cast.
Navesink marl, near Crawfords Corner, (126⁷).
15-16. Two lateral views of a specimen retaining part of the shell.
Navesink marl; Mullica Hill, (169).
- ODONTOFUSUS SLACKI (Gabb), p. 766
17. Lateral view of a somewhat distorted internal cast.
Merchantville clay-marl; Lenola, (163).
- TURBINELLA INTERMEDIA n. sp., p. 767
18-20. Vertical and two lateral views of a large internal cast.
21-22. Two lateral views of a smaller internal cast.
Merchantville clay-marl; Lenola, (163).
- TURBINELLA PARVA Gabb, p. 770
23-24. Two lateral views of an internal cast.
Navesink marl, near Crawfords Corner, (126⁷).



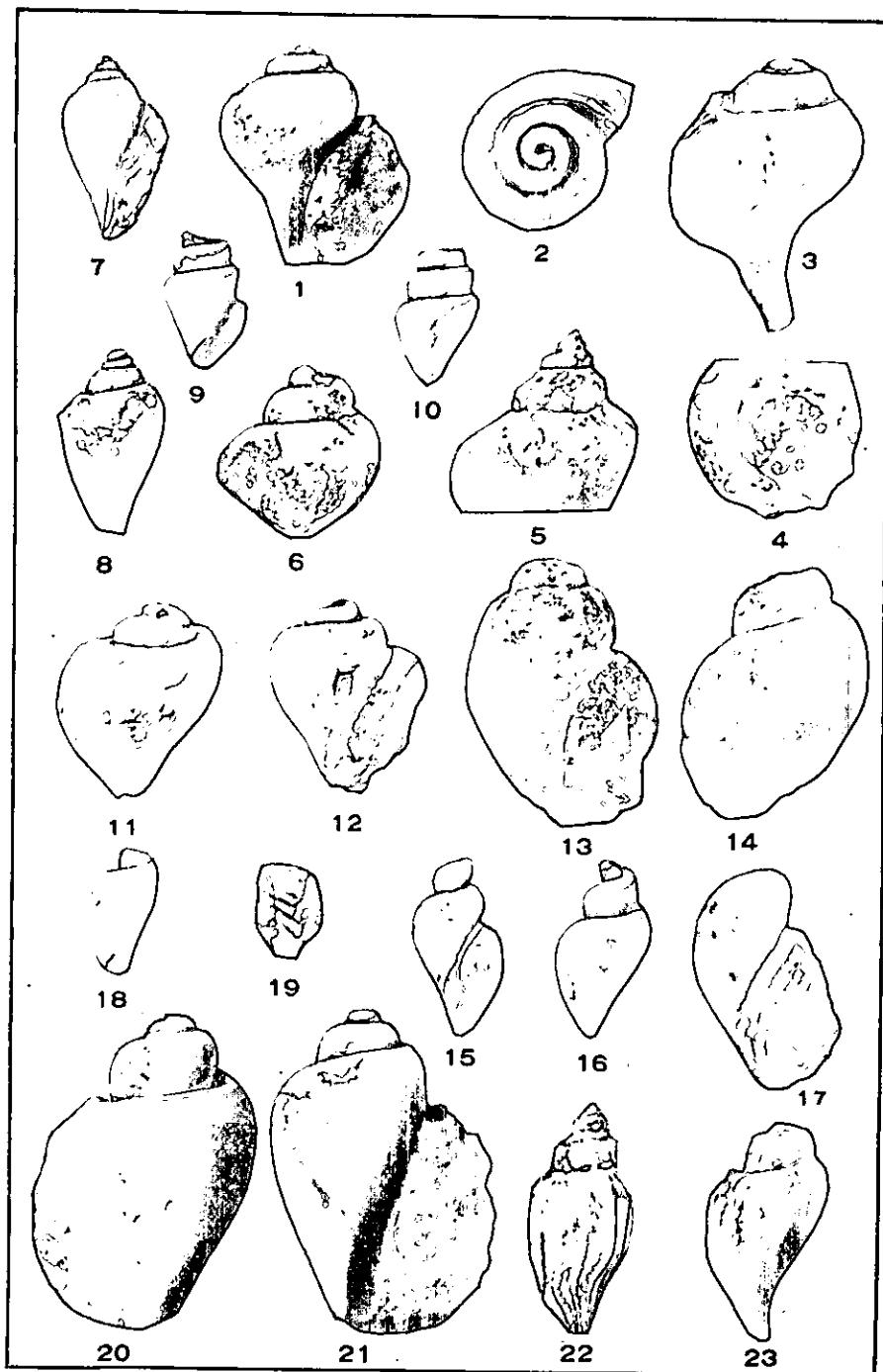
GASTROPODA.

13* PAL.

EXPLANATION OF PLATE XCI.

- TURBINELLA ALABAMENSIS** (Gabb), p. 768
 1-2. Lateral and vertical views of the type of *T. verticalis* Whitf.
Navesink marl; Upper Freehold.
 3. Lateral view of an internal cast preserving the anterior canal.
Navesink marl; Atlantic Highlands (108).
 4-5. Vertical and lateral views of a plaster cast from a natural
 mould of the exterior.
 6. Internal cast of the same individual.
Wenonah sand; near Crawfords Corner, (126³).
- CARICELLA PLICATA** Whitfield, p. 772
 7-8. Two lateral views of the type specimen.
Manasquan marl, Farmingdale.
- VASUM CONOIDES** Whitfield, p. 773
 9-10. Two lateral views of the type specimen.
Navesink marl; Walnford.
- TURBINELLA SUBCONICA** Gabb, p. 771
 11-12. Two lateral views of the type specimen.
Navesink marl; Monmouth County.
- VOLUTODERMA BIPLOCATA** (Gabb), p. 775
 13-14. Two lateral views of a large internal cast.
Wenonah sand; near Crawfords Corner, (126³).
 15-16. Two lateral views of a small internal cast.
 17. Lateral view of a large, imperfect internal cast.
Merchantville clay-marl; Lenola, (163).
- VOLUTODERMA WOOLMANI** Whitfield, p. 774
 18-19. Lateral views of two fragmentary internal casts.
Merchantville clay-marl; Lenola, (163).
- VOLUTODERMA OVATA** Whitfield, p. 776
 20-21. Two lateral views of a large internal cast.
Navesink marl; Atlantic Highlands (108).
- VOLUTODERMA JAMESBURGENSIS** n. sp., p. 777
 22. Lateral view of a squeeze from a natural mould.
 23. Lateral view of the internal cast of the same individual.
Merchantville clay-marl; near Jamesburg, (140).

PLATE XCI.

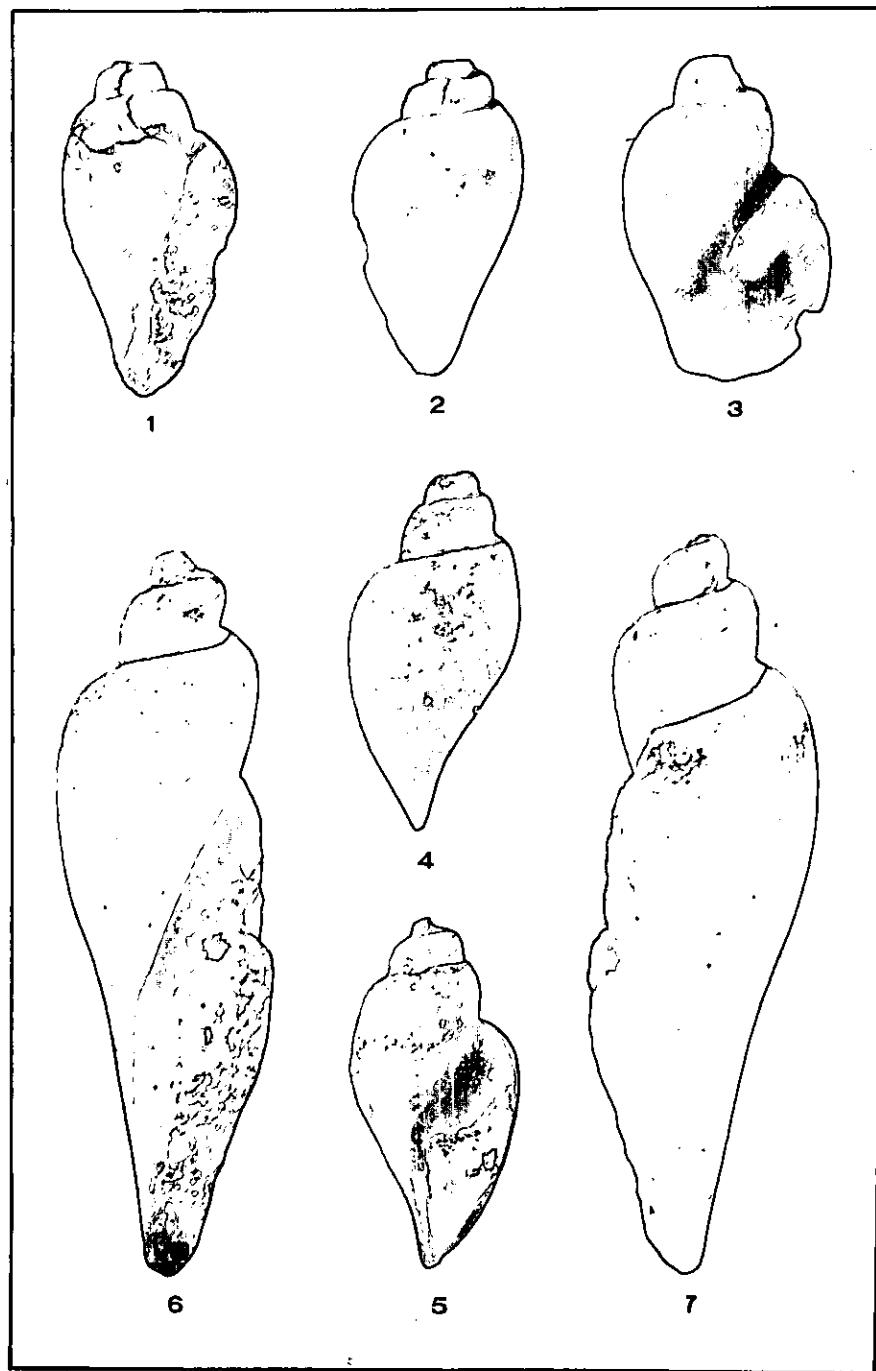


GASTROPODA.

EXPLANATION OF PLATE XCI.

- VOLUTODERMA ABBOTTI (Gabb),.....p. 778
 1-2. Two lateral views of the type specimen.
 Horizon and locality uncertain.
- VOLUTODERMA INTERMEDIA Whitfield,.....p. 779
 3. Lateral view of the type specimen.
 Manasquan marl; near Vincentown.
- PIESTOCHILUS BELLA Gabb ?,.....p. 782
 4-5. Two lateral views of an internal cast, partially restored.
 Menonah sand; Crawfords Corner, (126³).
- VOLUTOMORPHA CONRADI (Gabb).....p. 780
 6-7. Two lateral views of the type specimen.
 Navesink marl; Crosswicks Creek.

PLATE XCII.



GASTROPODA.

EXPLANATION OF PLATE XCIII.

VOLUTOMORPHIA CONRADI (Gabb).....p. 780

1-2. Two lateral views of a large internal cast.

Navesink marl; near Holmdel.

3. Lateral view of a cast retaining some of the surface markings.

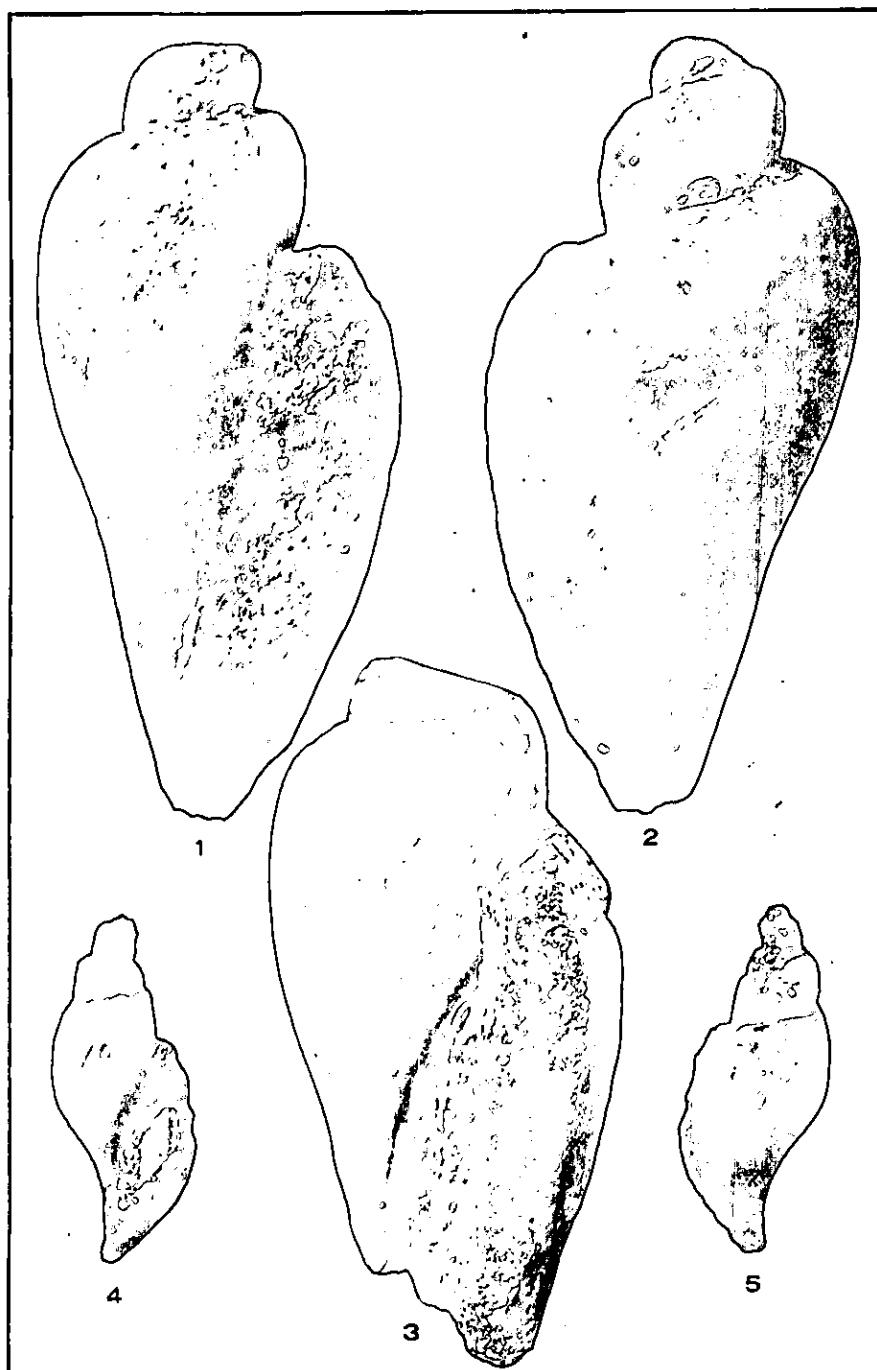
Navesink marl.

VOLUTOMORPHIA sp..

4-5. Two lateral views of an internal cast.

Wenonah sand; near Crawfords Corner, (126³).

PLATE XCIII.



GASTROPODA.

EXPLANATION OF PLATE XCIV.

VOLUTOMORPHA CONRADI (Gabb), p. 780

1-2. Two lateral views of a very broad internal cast.

Cliffwood clay; Cliffwood Point, (105).

3. Lateral view of one of the type specimens of *V. gabbi* Whitfield.

Navesink marl; Mullica Hill.

4. Lateral view of one of the type specimens of *V. gabbi*. (After Whitfield.)

Navesink marl, Holmdel.

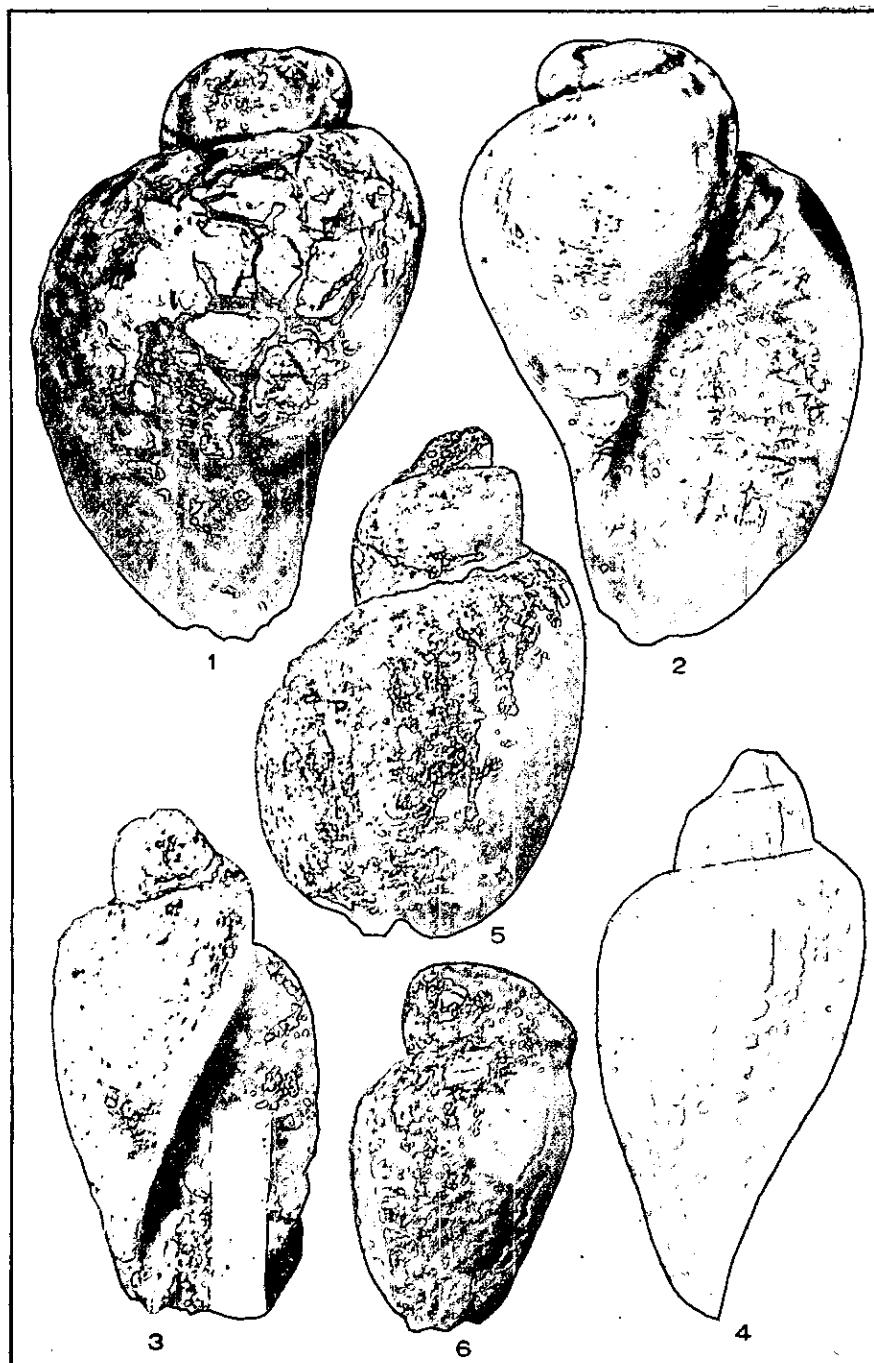
5. Lateral view of an internal cast preserving some of the surface markings.

Navesink marl; Mullica Hill (169).

6. Lateral view of a small internal cast illustrated by Whitfield as *V. gabbi*.

Navesink marl; Marlboro.

PLATE XCIV.

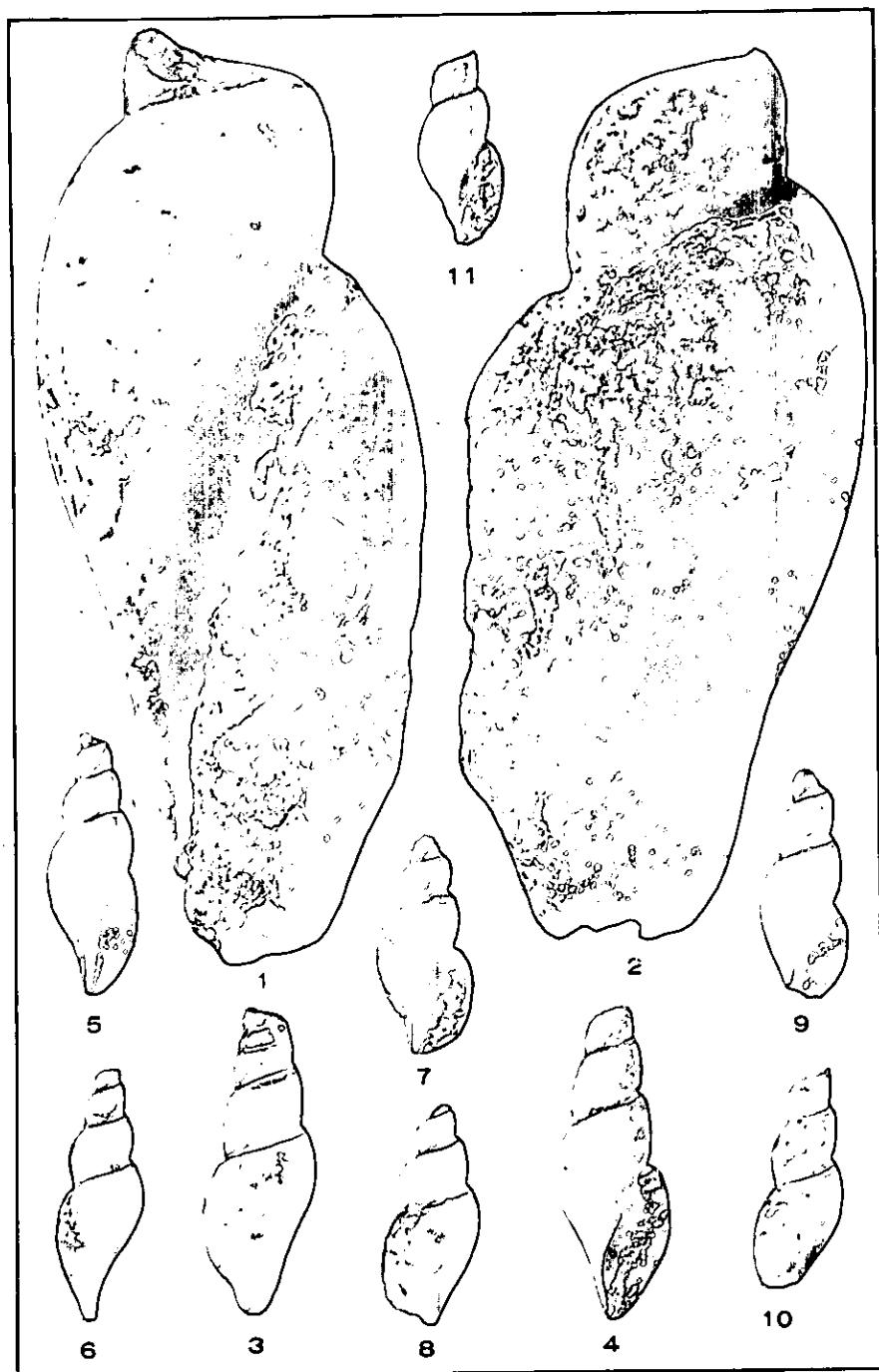


GASTROPODA.

EXPLANATION OF PLATE XCV.

- VOTUTOMORPHIA PONDEROSA Whitfield,.....p. 781
1-2. Two lateral views of one of the type specimens.
Navesink marl; Navesink Hills.
- PIESTOCHILUS sp.
3-4. Two lateral views of an internal cast.
Navesink marl; Mullica Hill, (169).
- ODONTOFUSUS MUCRONATA Gabb,.....p. 764
5-6. Two lateral views of an internal cast.
Navesink marl; Middleton, (113).
- 7-8. Two lateral views of the type specimen of *O. rostellaroides*
Whitf.
Navesink marl; Holmdel.
- 9-10. Two lateral views of an internal cast.
11. Lateral view of an internal cast.
Navesink marl; near Crawfords Corner, (126').

PLATE XCV.

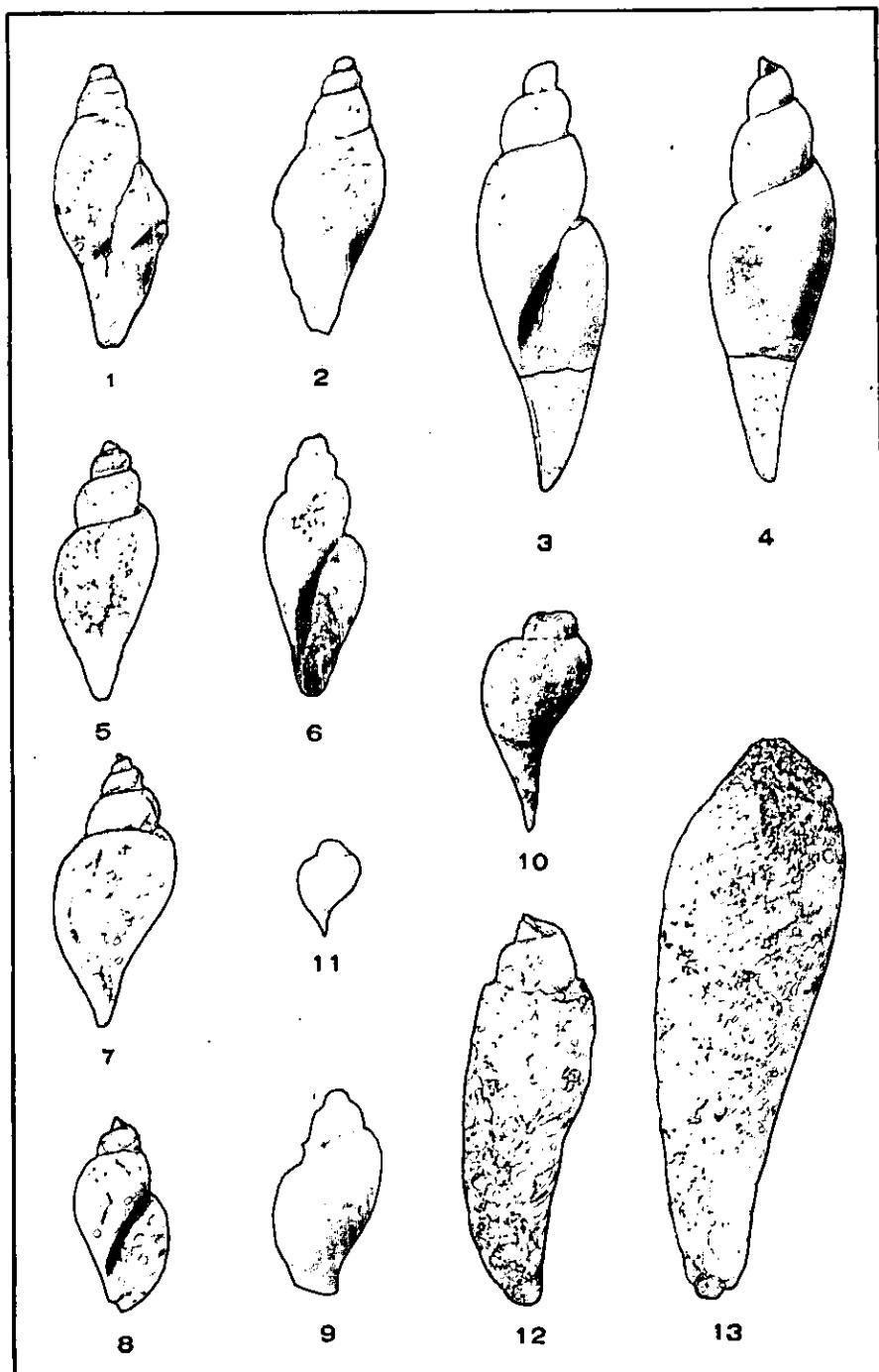


GASTROPODA.

EXPLANATION OF PLATE XCVI.

- PIESTOCHILUS BELLA (Gabb).....p. 782
1-2. Two lateral views of an internal cast.
3-4. Two lateral views of a large internal cast, probably the type
of the species.
Navesink marl; Monmouth County.
- PIESTOCHILUS KANEI Gabb.....p. 784
5-6. Two lateral views of an internal cast.
Wenonah sand; near Crawfords Corner, (126³).
7. Lateral view of an internal cast doubtfully referred to this
species.
Cliffwood clay; Cliffwood Point, (185).
8-9. Two lateral views of the type of the species.
Navesink marl; Crosswicks Creek.
- VOLUTOMORPHA ? sp.
10-11. Lateral views of two internal casts.
Wenonah sand; near Crawfords Corner, (126³).
- ROSTELLITES TEXTURATUS Whitfield.....p. 785
12. Lateral view of an imperfect internal cast.
Merchantville clay-marl; Lenola, (163).
13. Lateral view of an internal cast illustrated by Whitfield.
Navesink marl; Holmdel.

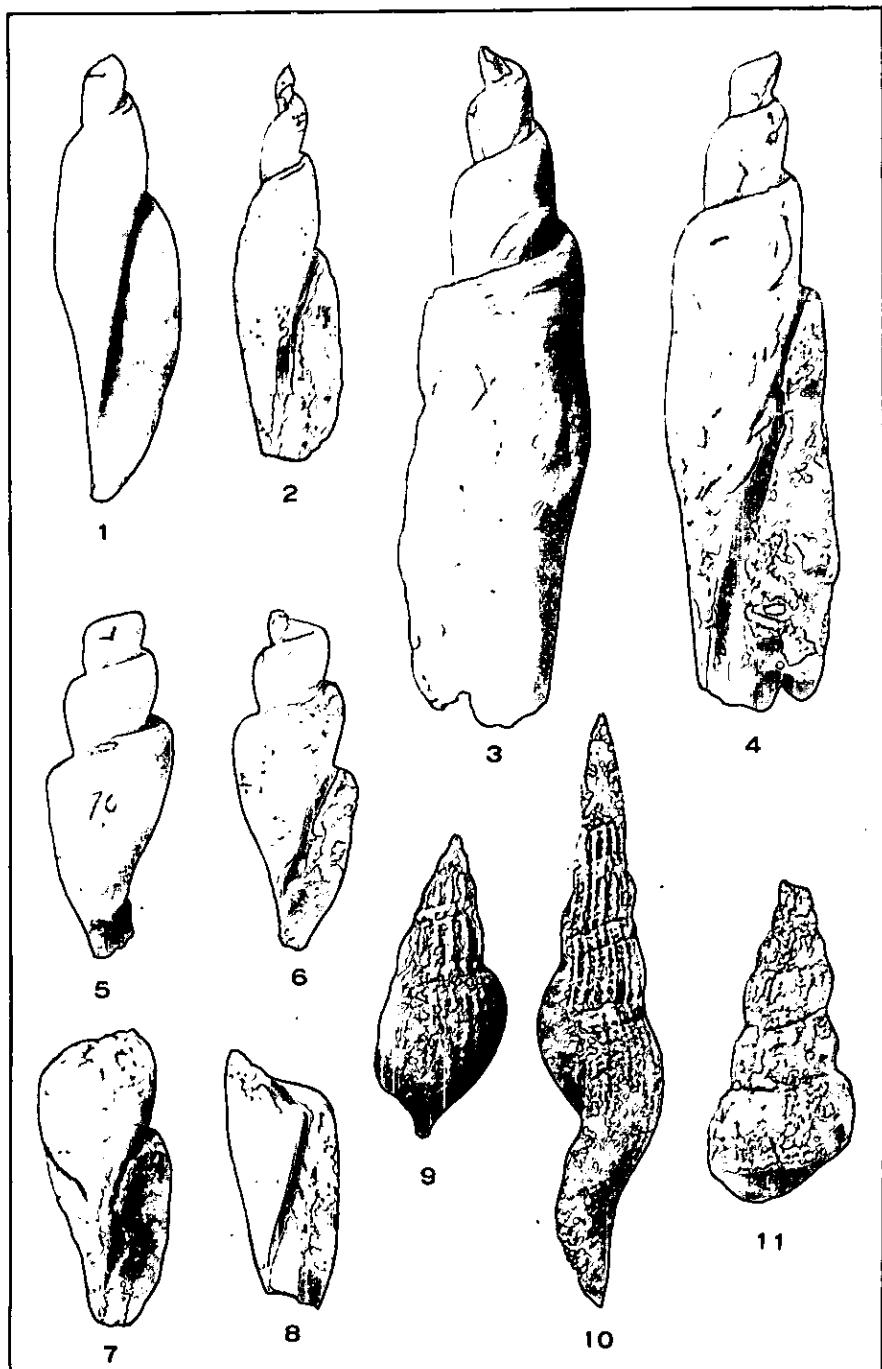
PLATE XCVI.



GASTROPODA.

EXPLANATION OF PLATE XCVII.

- ROSTELLITES NASUTUS Gabb, p. 786
1-2. Two lateral views of the type specimen.
Navesink marl; Monmouth County.
- ROSTELLITES ANGULATUS Whitfield, p. 787
3-4. Two lateral views of the type specimen.
Navesink marl.
- ROSTELLITES BICONICUS Whitfield, p. 788
5-6. Two lateral views of an internal cast.
7-8. Lateral views of two imperfect casts.
Manasquan marl; Farmingdale.
- TURRICULA LERA Whitfield, p. 790
9. View of the type specimen.
Navesink marl; Freehold.
- TURRICULA REILEYI Whitfield, p. 791
10. View of the type specimen.
Navesink marl; Freehold.
- TURRICULA SCALARIFORMIS Whitfield, p. 789
11. View of the type specimen.
Navesink marl; Holmdel.

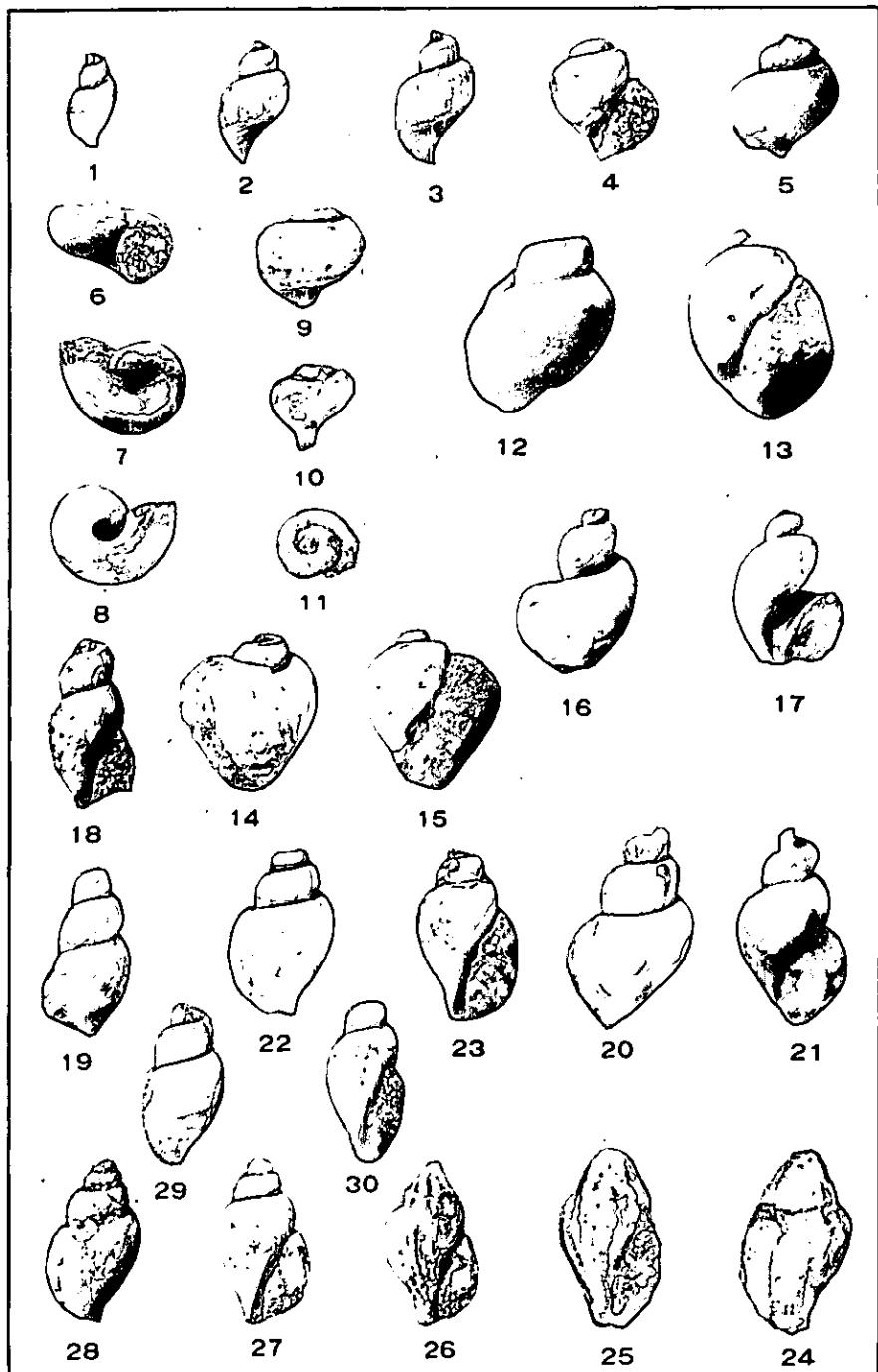


GASTROPODA.

EXPLANATION OF PLATE XCVIII.

- CANCELLARIA SUBALTA Conrad, p. 792
 1. Lateral view of an internal cast.
Woodbury clay; Lorillard, (102).
- CANCELLARIA SMOCKI n. sp., p. 793
 2-3. Lateral views of two internal casts.
Woodbury clay; Lorillard, (102).
- TURBINOPSIS ? CURTA Whitfield, p. 798
 4-5. Two lateral views of an internal cast.
Navesink marl; near Walnford, (149).
- TURBINOPSIS DEPRESSA Gabb, p. 794
 6-8. Lateral, vertical and basal views of an internal cast.
Navesink marl; near Walnford, (148¹).
9. Lateral view of an internal cast showing some of the external markings.
- 10-11. Lateral and vertical views of an internal cast showing anterior extension of shell.
Wenonah sand; near Crawfords Corner, (126¹).
- TURBINOPSIS ANGULATA Whitfield, p. 796
 12-13. Two lateral views of the type specimen.
Navesink marl; Crosswicks.
- MOREA NATICELLA Gabb, p. 800
 14-15. Two lateral views of an internal cast, retaining some of the markings of the exterior.
Merchantville clay-marl; Lenola, (163).
- MOREA PLICATA (Whitfield), p. 801
 16-17. Two lateral views of the type specimen.
Navesink marl; Crosswicks.
- PLEUROTOMA FARMINGDALENSIS Whitfield, p. 802
 18-19. Two lateral views of the type specimen.
Manasquan marl; Farmingdale.
- CITHARA CROSSWICKENSIS Whitfield, p. 803
 20-21. Two lateral views of the type specimen.
Navesink marl; Crosswicks Creek.
- CITHARA MULLICAENSIS Whitfield, p. 804
 22-25. Two lateral views each of two specimens, one an internal cast, and one partially preserving the shell.
Navesink marl; Mullica Hill, (169).
26. Lateral view of one of the type specimens partially preserving the shell.
- 27-28. Two lateral views of another of the type specimens.
Navesink marl; Freehold.
- CITHARA sp.
 29-30. Two lateral views of an internal cast.
Navesink marl; near Crawfords Corner, (126¹).

PLATE XCVIII.



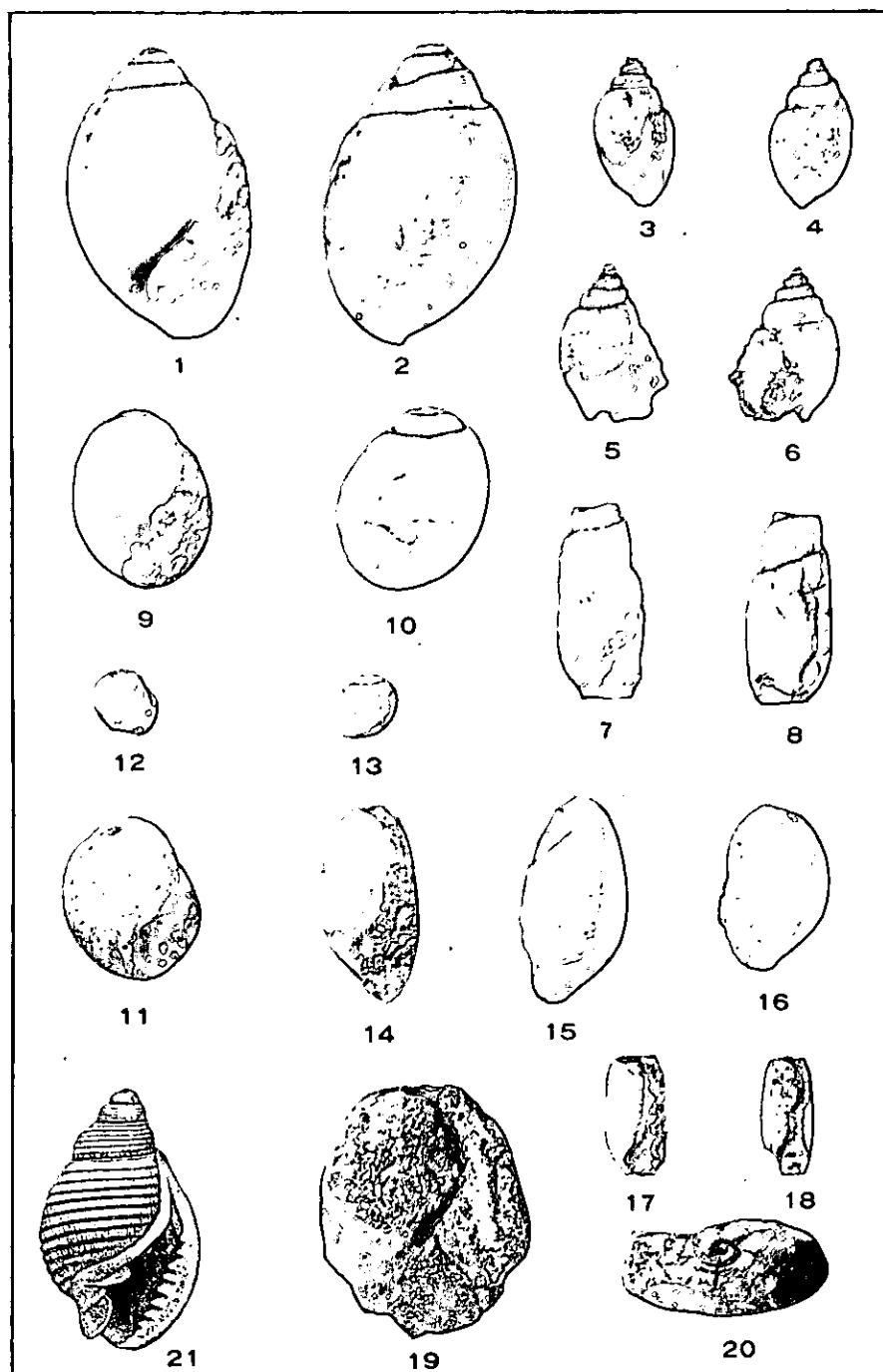
GASTROPODA.

14* PAL

EXPLANATION OF PLATE XCIX.

- ACTAEON CRETACEA Gabb, p. 805
 1-2. Two lateral views of a very large internal cast.
Navesink marl; Atlantic Highlands, (108).
- 3-6. Two lateral views each of two internal casts.
Wenonah sand; near Crawfords Corner, (126³).
- ACTAEON GABBANA Whitfield, p. 807
 7-8. Two lateral views of a large internal cast.
Woodbury clay; near Matawan, (103).
- AVELLANA BULLATA (Morton), p. 808
 9-10. Two lateral views of one of the specimens used by Morton
 in his description of the species.
Navesink marl.
11. Lateral view of a distorted internal cast.
Merchantville clay-marl; Lenola, (163).
- CINULIA NATICOIDES (Gabb), p. 811
 12-13. Two lateral views of an internal cast.
Navesink marl; near Freehold, (133).
- HAMINEA MORTONI (Forbes), p. 812
 14-15. Two lateral views of an internal cast.
Navesink marl; Atlantic Highlands, (108).
16. Lateral view of a shorter internal cast.
Navesink marl; near Crawfords Corner, (126³).
- CYLICHNA RECTA Gabb, p. 814
 17. Lateral view of an internal cast, (x2).
Navesink marl; near Freehold, (133).
18. Lateral view of an internal cast, (x2).
Wenonah sand; near Crawfords Corner, (126³).
- BULLA MACROSTOMA Gabb, p. 812
 19-20. Lateral and vertical views of a crushed internal cast.
Red Bank sand; near Middletown, (112).
- AVELLANA COSTATA (Johnson), p. 810
 21. Lateral view of the type specimen (x8½). (After Johnson.)
Woodbury clay?; Artesian well at Mount Laurel.

PLATE XCIX.

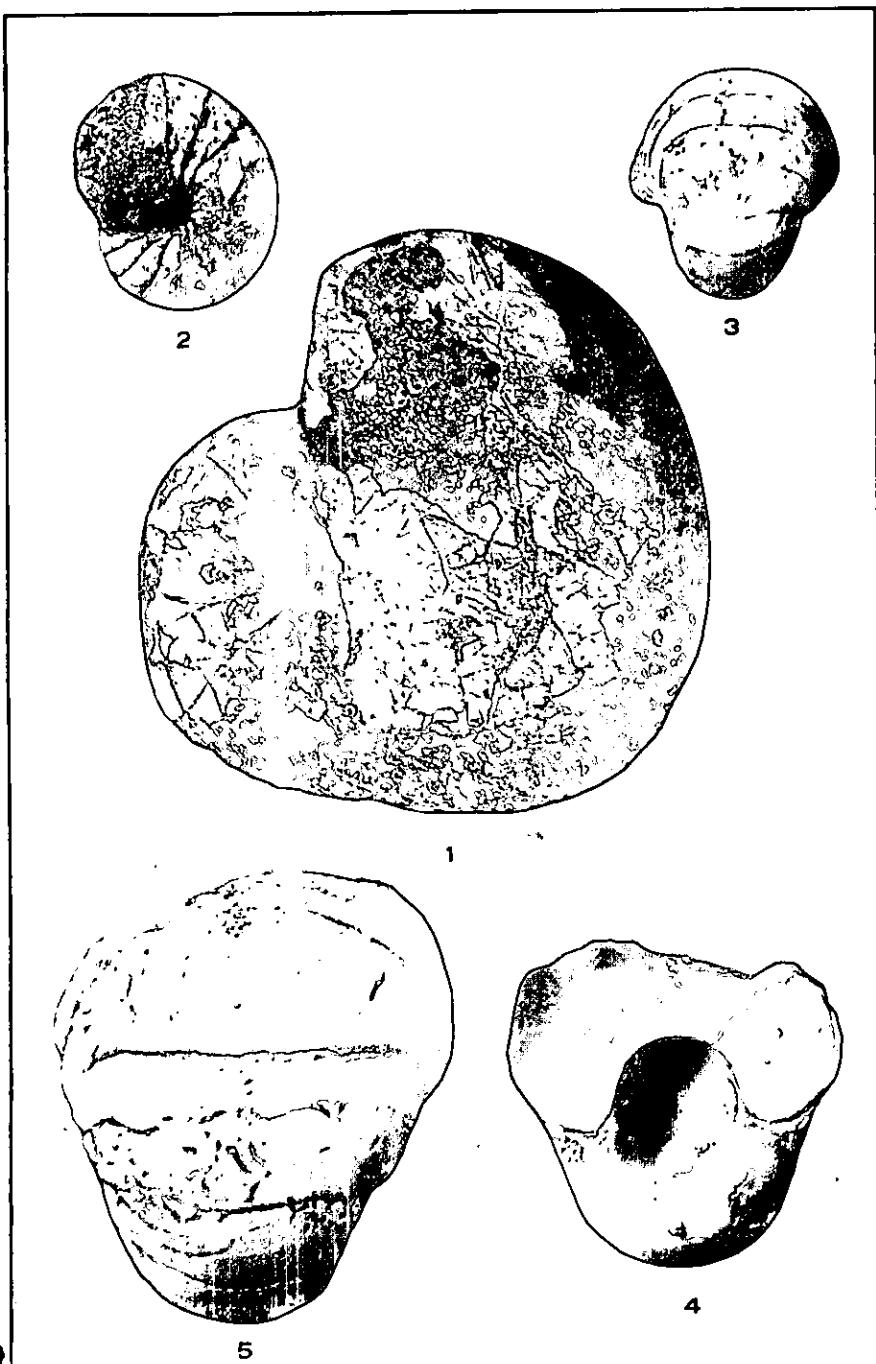


GASTROPODA.

EXPLANATION OF PLATE C.

- NAUTILUS DEKAYI Morton, p. 817
1. Lateral view of an incomplete internal cast.
Red Bank sand; Shrewsbury River, (119).
 - 2-3. Lateral and dorsal views of a small internal cast, illustrated by Whitfield.
 4. Ventral view of a fragmentary internal cast, illustrated by Whitfield.
Navesink marl; Marlboro.
 5. Dorsal view of a fragmentary internal cast illustrated by Whitfield.
Hornerstown marl; Cook's pits near Tinton Falls.

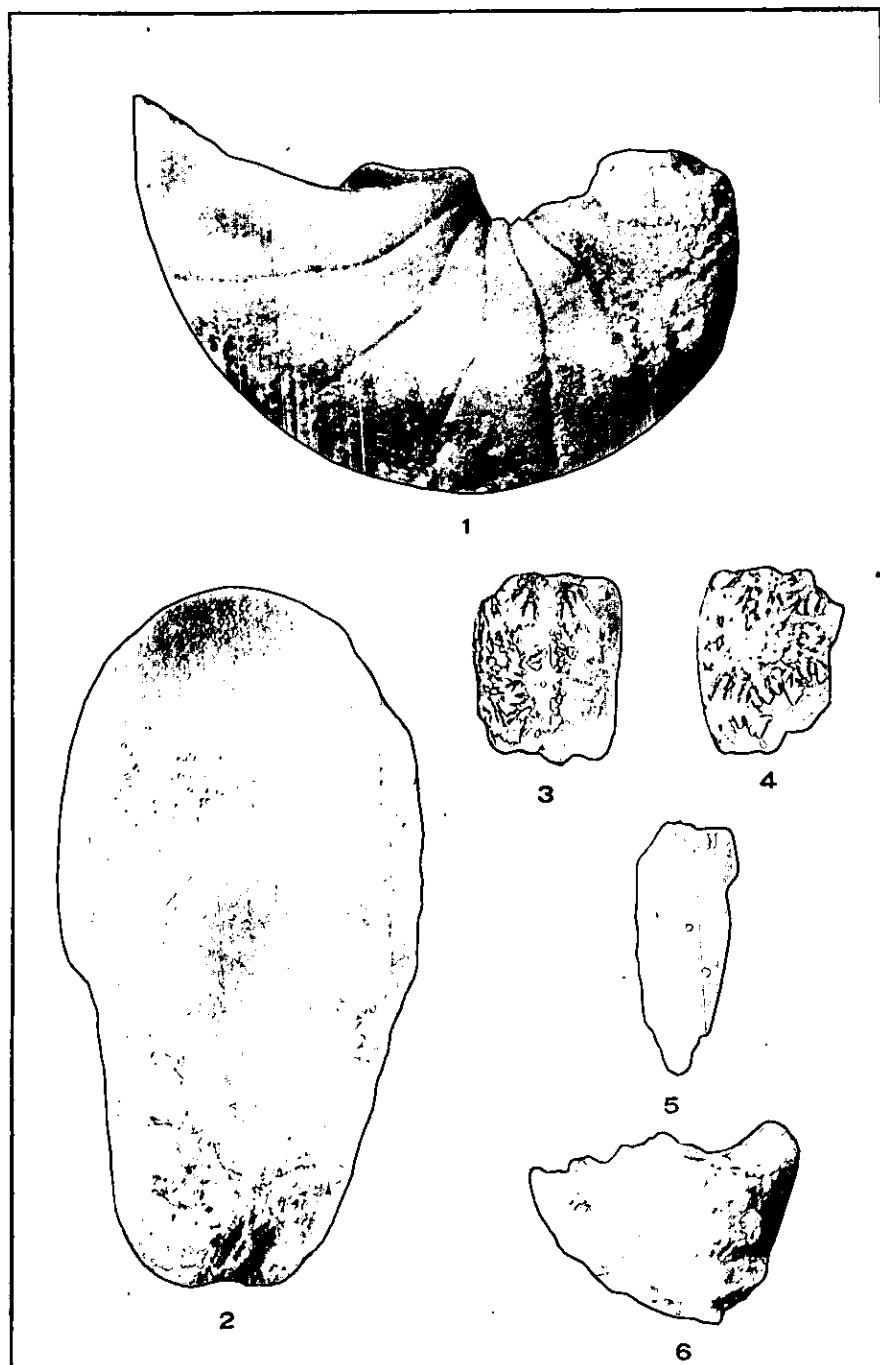
PLATE C.



GASTROPODA.

EXPLANATION OF PLATE CI.

- NAUTILUS BRYANI Gabb, p. 818
1-2. Lateral and ventral views of the type specimen.
Vincentown limesand; Vincentown.
- PACHYDISCUS COMPLEXUS (Hall and Meek)?..... p. 819
3-4. Dorsal and lateral views of a fragment of an internal cast
illustrated by Whitfield.
Locality unknown.
- BARROISICERAS DENTATO-CARINATUS (Roemer), p. 836
5-6. Dorsal and lateral views of a fragmentary internal cast illus-
trated by Whitfield.
Locality unknown.



CEPHALOPODA.

EXPLANATION OF PLATE CH.

- HERCOGLOSSA PAUCIFEX (Cope), p. 815
1. Lateral view of the type specimen, ($\times \frac{1}{2} +$).
Hornerstown marl; Glassboro.

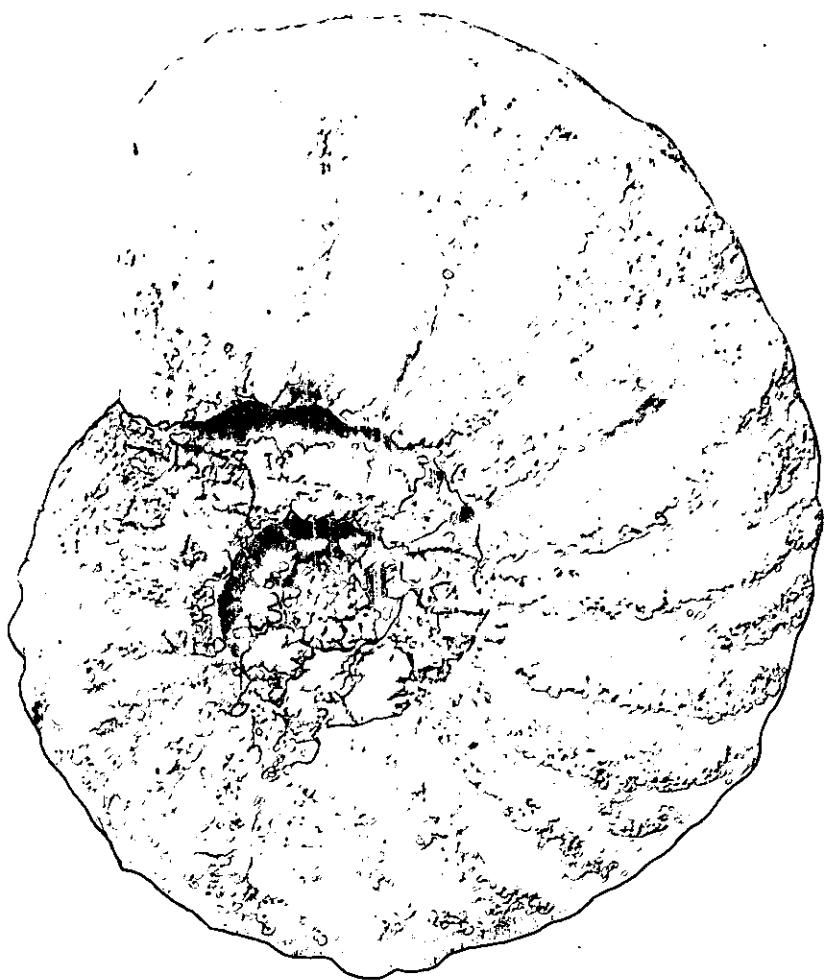
PLATE CII.



CEPHALOPODA.

EXPLANATION OF PLATE CII.

MORTONICERAS DELAWARENSIS (Morton).;..... p. 837
1. Lateral view of a nearly perfect internal cast.
Merchantville clay-marl.



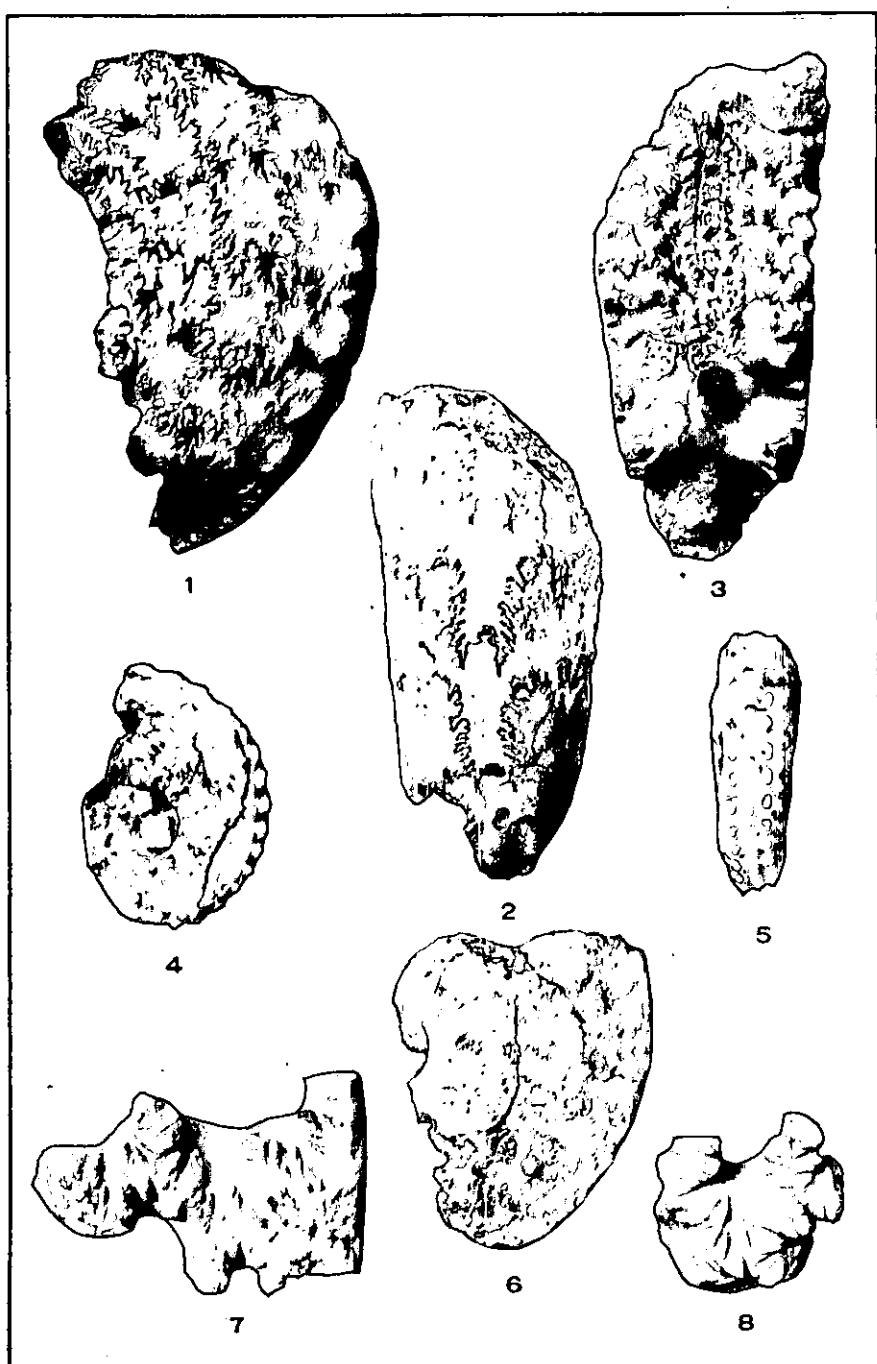
1

CEPHALOPODA.

EXPLANATION OF PLATE CIV.

- MORTONICERAS DELAWARENSIS (Morton), p. 837
1-3. Lateral, ventral and dorsal views of an incomplete internal cast.
Merchantville clay-marl; Lenola, (163).
4-5. Lateral and dorsal views of the type specimen.
Merchantville clay-marl.
- PLACENTICERAS PLACENTA (DeKay), p. 830
6. Lateral view of an incomplete internal cast of an immature specimen.
Merchantville clay-marl; Lenola, (163).
- PLACENTICERAS TELIFER (Morton), p. 832
7-8. Views of two fragments used by Morton in his description of the species.
Locality not known.

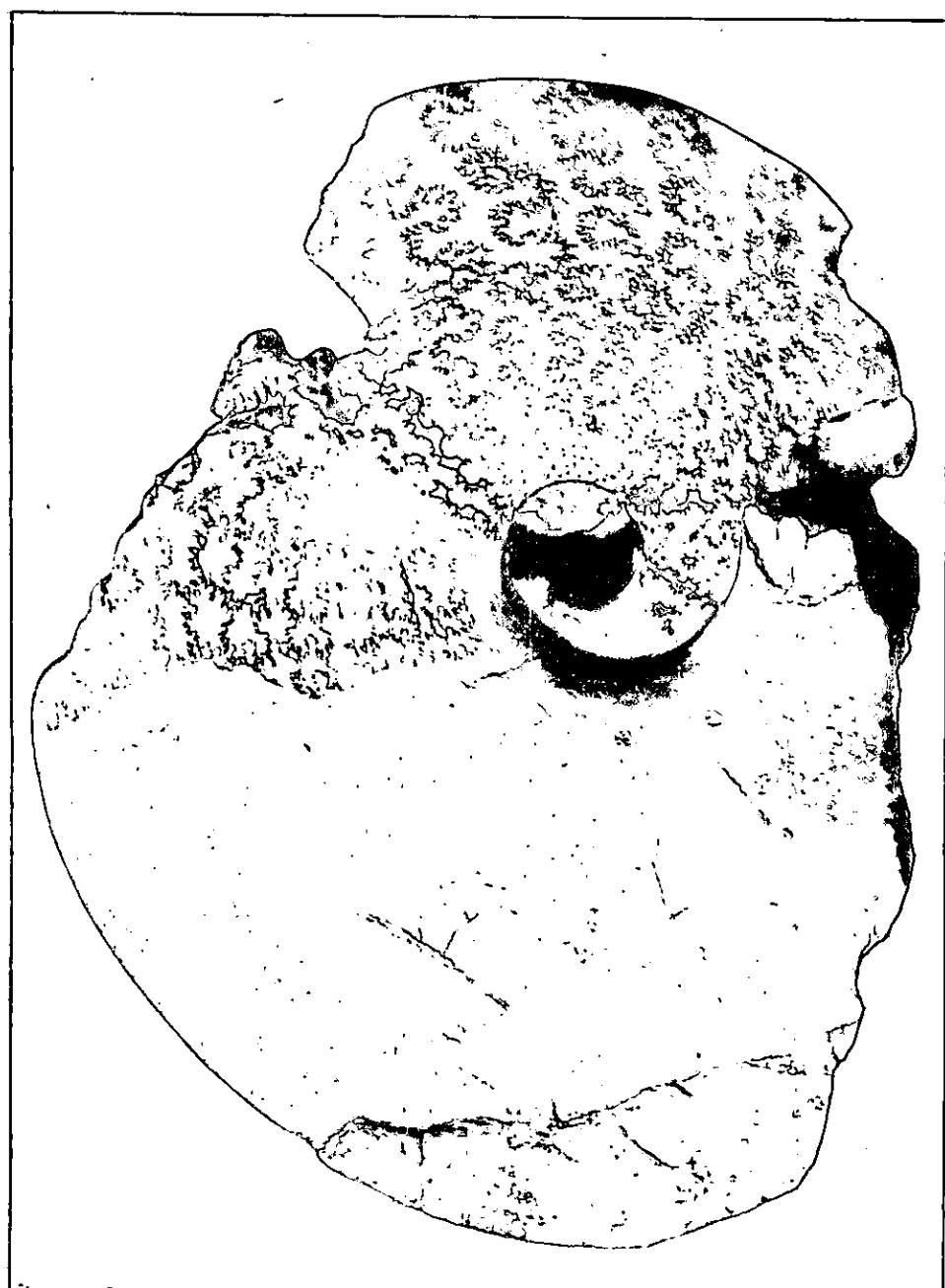
PLATE CIV.



CEPHALOPODA.

EXPLANATION OF PLATE CV.

PLACENTICERAS PLACENTA (DeKay), p. 830
I. Lateral view of a large internal cast, ($x\frac{1}{2}+$).
Merchantville clay-marl; Lenola, (163).



CEPHALOPODA.

EXPLANATION OF PLATE CVI.

- SPHENODISCUS LOBATUS** (Tuomey), p. 828
1. Lateral view of an incomplete internal cast.
2. The suture of the same.
Tinton beds; Tinton Falls, (110).



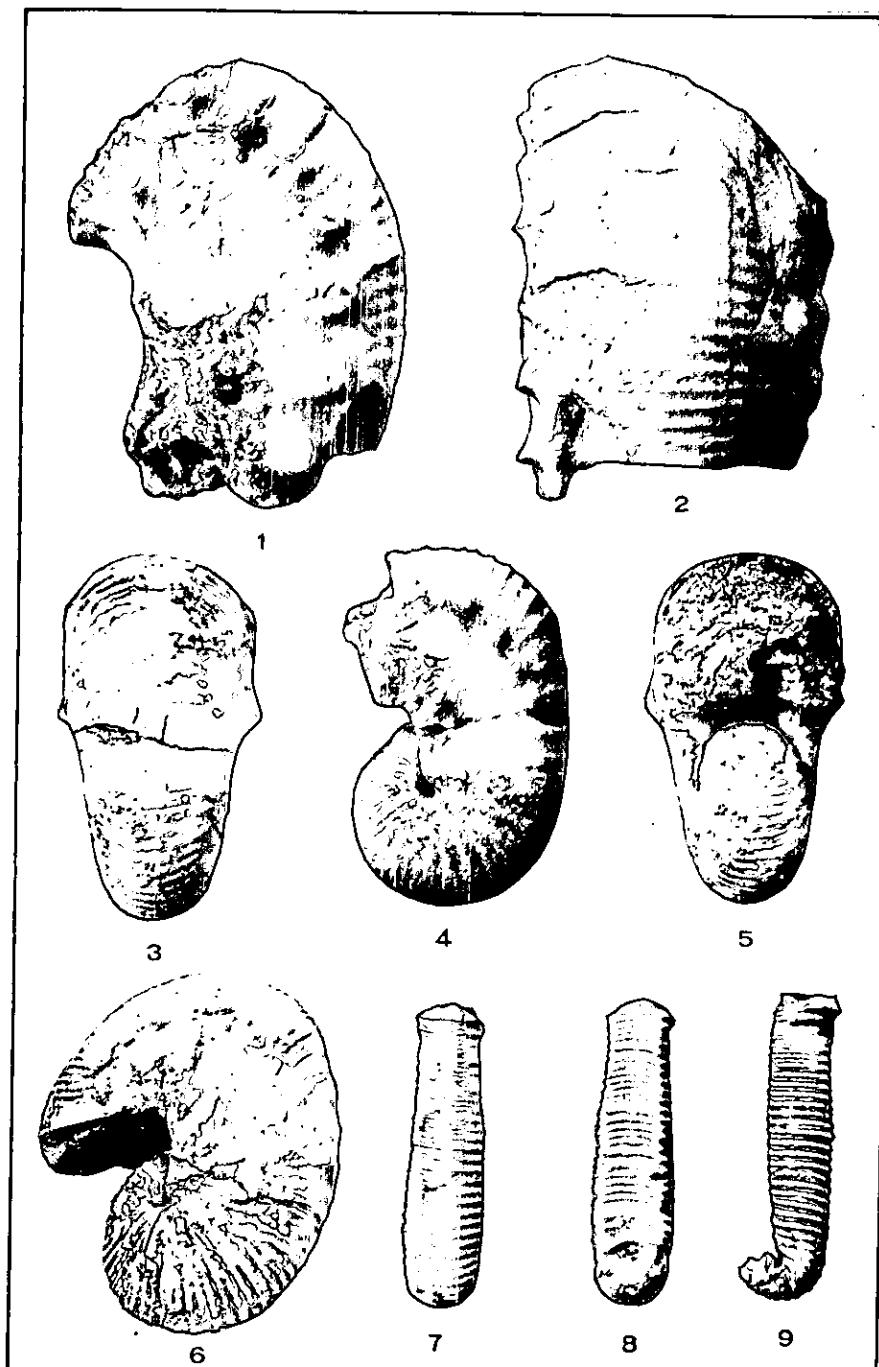
CEPHALOPODA.

15* PAL

EXPLANATION OF PLATE CVII.

- SCAPHITES NODOSUS Owen ?,.....p. 824
1-2. Lateral and dorsal views of an imperfect specimen illustrated
by Whitfield.
Locality not known.
- SCAPHITES HIPPOCREPIS (DeKay),.....p. 826
3-5. Three views of an internal cast.
6. Lateral view of another internal cast.
Merchantville clay-marl; Lenola, (163).
- PTYCHOCERAS (SOLENOCERAS) ANNULIFER Morton,
7-9. Three views of the type specimen, (x2).
*Merchantville clay-marl, Delaware and Chesapeake
Canal.*

PLATE CVII.

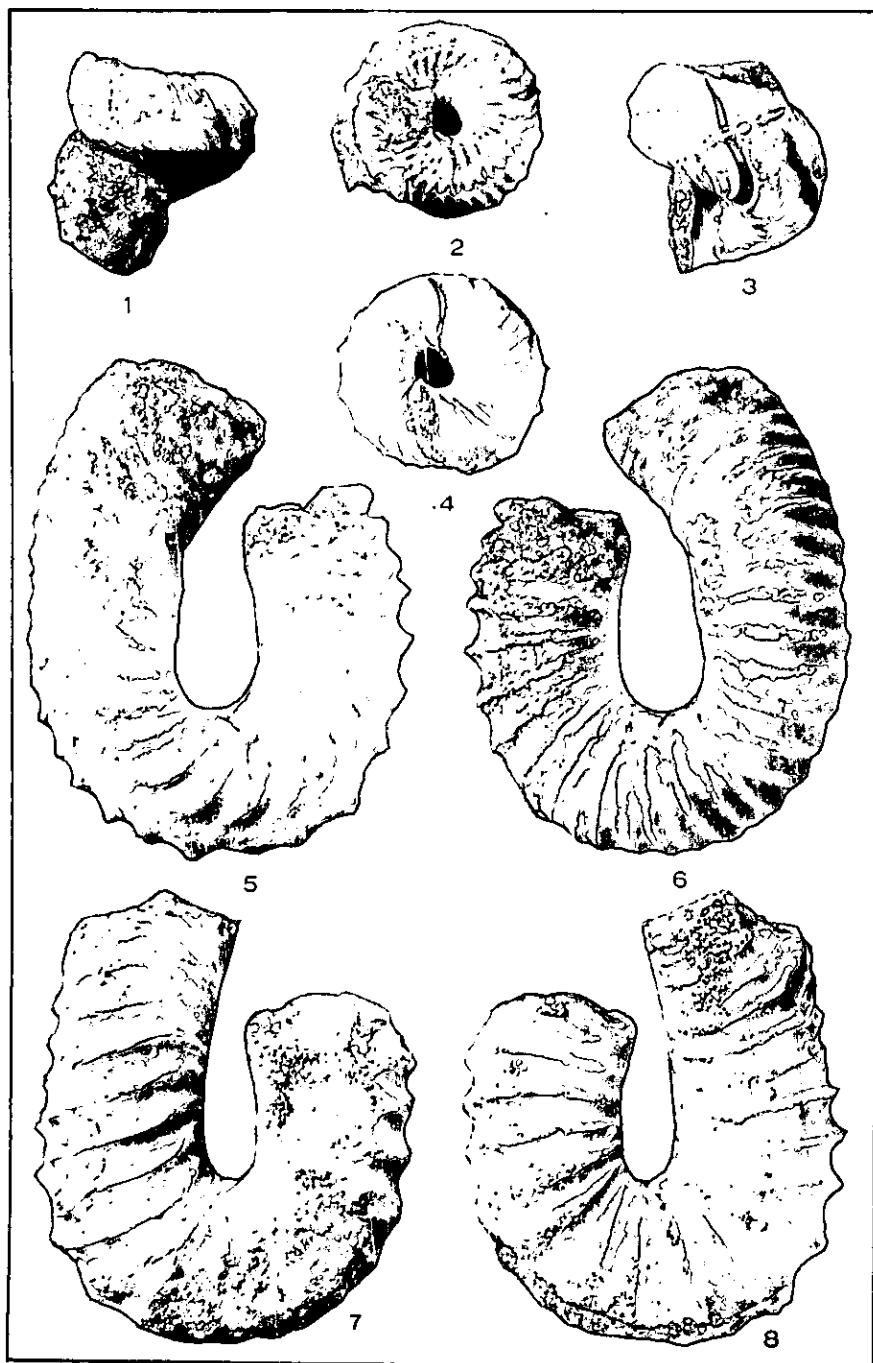


CEPHALOPODA.

EXPLANATION OF PLATE CVIII.

- TURRILITES PAUPER Whitfield,.....p. 834
1-4. Four views of the type specimen.
Navesink marl; Navesink Hills.
- HETEROCERAS CONRADII (Morton),.....p. 833
5-8. Two views each of two specimens.
Navesink marl; Atlantic Highlands, (108).

PLATE CVIII.

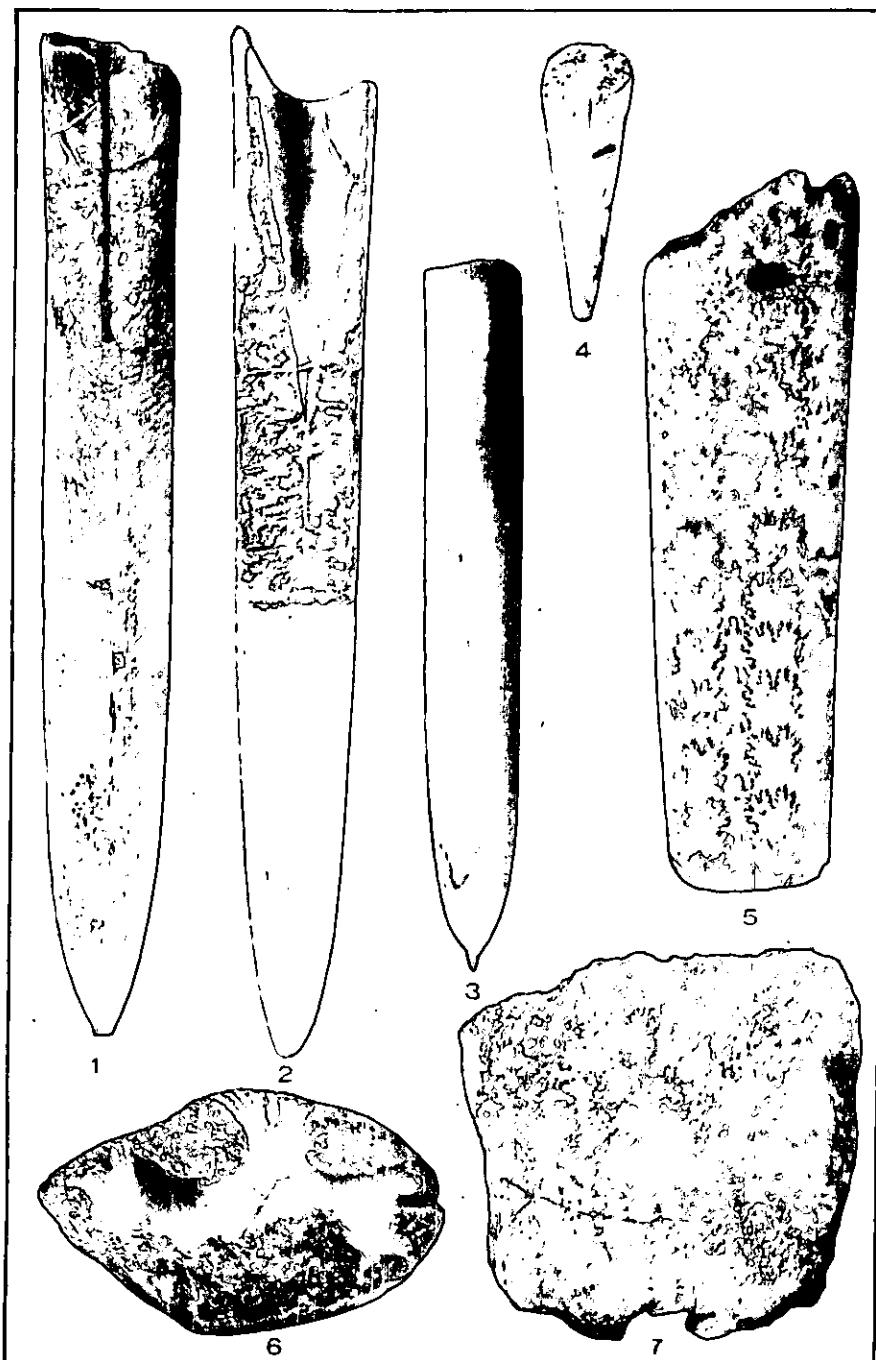


CÉPHALOPODA.

EXPLANATION OF PLATE CIX.

- BELEMNITELLA AMERICANA (Morton).....p. 839
1. Ventral view of a large individual showing the slit.
2. Another view of the same individual with a section removed
to show the alveolar cavity.
3. View of a smaller individual preserving the mucronate ex-
tremity.
Navesink marl; Holmdel.
4. View of a cast of the alveolar cavity.
Navesink marl; Atlantic Highlands, (108).
- BACULITES OVATUS Say.....p. 821
5. Lateral view of an internal cast.
Navesink marl; Atlantic Highlands, (108).
- BACULITES ASPER Morton ?,.....p. 823
6-7. Two views of a specimen identified and illustrated by Whit-
field.
Navesink marl; Holmdel.

PLATE CIX.

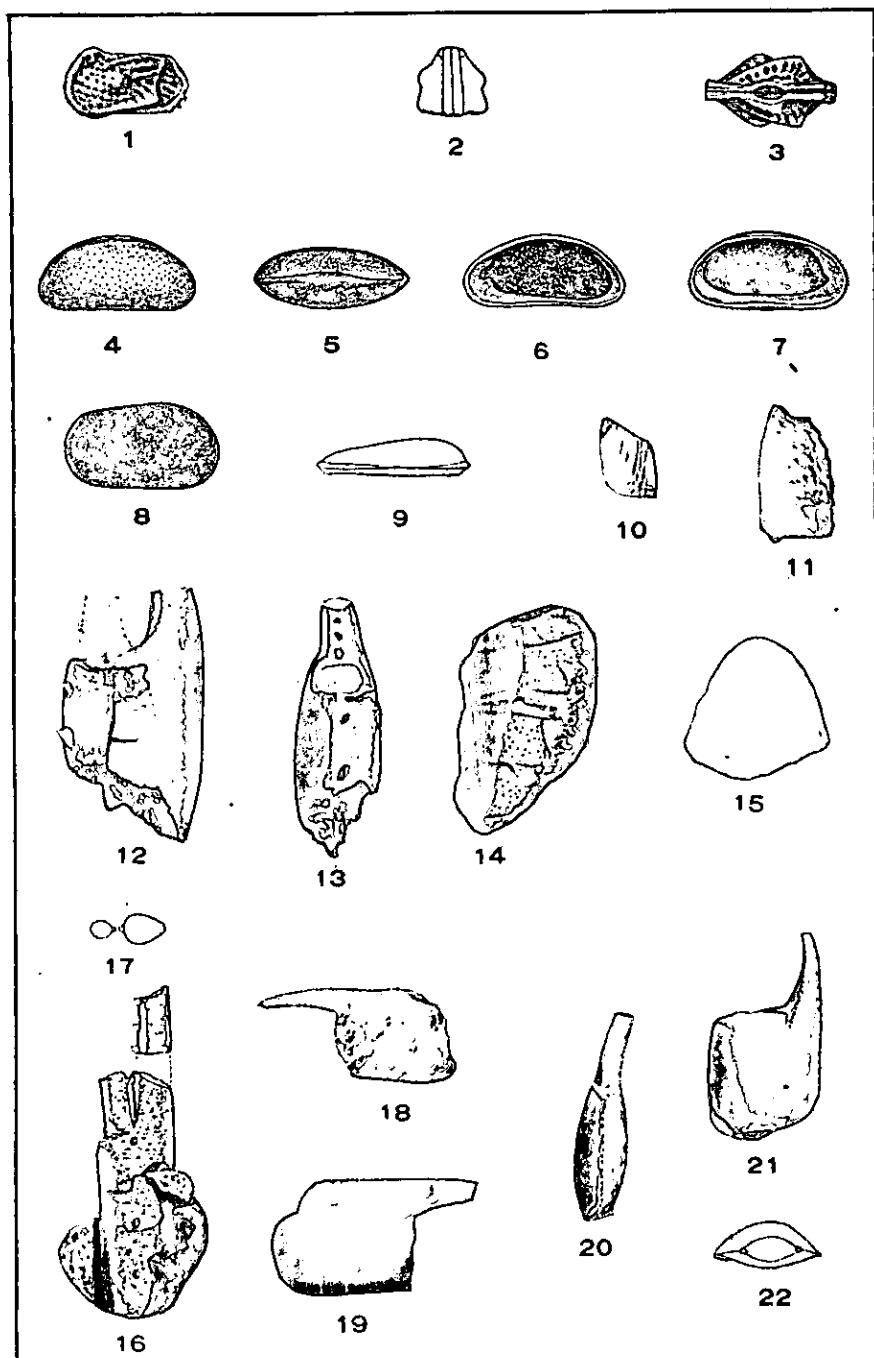


CEPHALOPODA.

EXPLANATION OF PLATE CX.

CYTHEREIS BASSLERI Ulrich,	p. 843
1-3. Left lateral, anterior and ventral views of a complete carapace from the Eocene of Maryland. (After Ulrich.)	
BYTHOCYPRIS PARILIS Ulrich,.....	p. 844
4-5. Right lateral, and ventral views of a complete carapace from the Eocene of Maryland. (After Ulrich.)	
6. Inside view of right valve. (After Ulrich.)	
7. Inside view of left valve. (After Ulrich.)	
CYTHERELLA SUBMARGINATA Ulrich,.....	p. 845
8. A left valve showing slight mesial depression and marginal rim, from the Eocene of Maryland. (After Ulrich.)	
9. Ventral view of same. (After Ulrich.)	
SCALPELLUM CONRADI Gabb,.....	p. 845
10. View of a scutal plate. <i>Vincentown limesand; near Hurffville, (170).</i>	
UNDETERMINED CRUSTACEAN, 11. Lateral view of one of the leg joints. <i>Merchantville clay-marl; Lenola, (163).</i>	
HOPLOPARIA GABBI Pilsbry,.....	p. 846
12. Left propodite, outer face; the dactylopodite supplied from another specimen.	
13. Left propodite, profile view.	
14. Portions of four abdominal segments.	
15. Section of anterior end of same. (All after Pilsbry.) <i>Merchantville clay-marl; Lenola, (163).</i>	
HOPLOPARIA GLADIATOR Pilsbry,.....	p. 848
16. Propodite with dactylopodite.	
17. Outline of the broken fingers of the same. (After Pilsbry.) <i>Merchantville clay-marl; Lenola, (163).</i>	
CALLIANASSA CONRADI Pilsbry,.....	p. 851
18. View of a left propodite. <i>Tinton beds; near Freehold, (132).</i>	
19. View of a right propodite. <i>Tinton beds; Beers Hill Cut, (129⁰).</i>	
20. Profile view of left propodite. (After Pilsbry.)	
21. Inner face of same. (After Pilsbry.)	
22. Posterior view of same. (After Pilsbry.)	

PLATE CX.

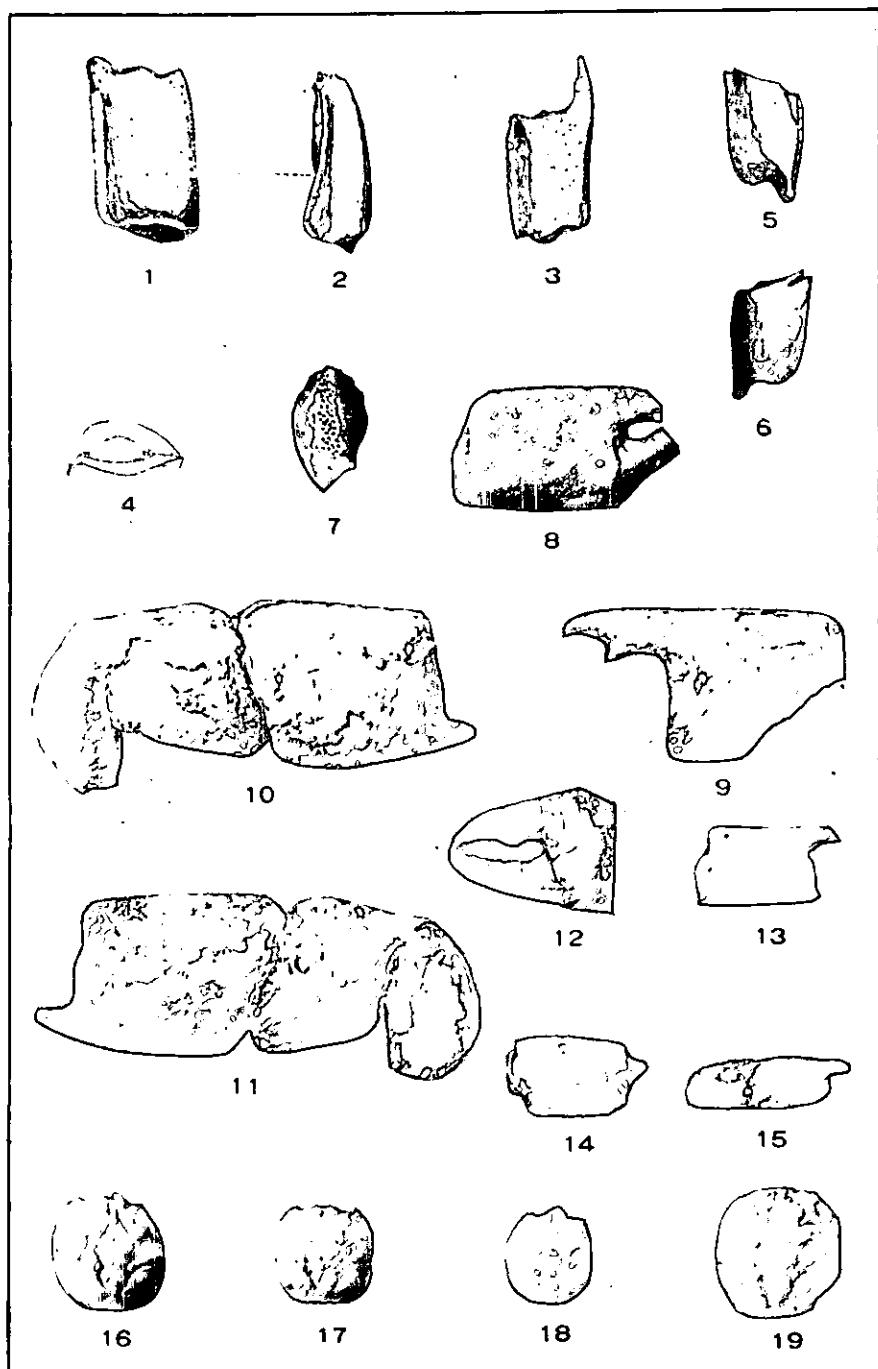


CRUSTACEA.

EXPLANATION OF PLATE CXI.

- CALLIANASSA MORTONI Pilsbry, p. 849
1-4. Inside, profile, outside, and posterior views of a right propo-
dite. (After Pilsbry.)
5-6. Inside and outside views of a right carpopodite. (After Pils-
bry.)
7. Outside view of left mesopodite. (After Pilsbry.)
Merchantville clay-marl; Lenola, (163).
8. Outside view of a left propodite retaining a portion of the
dactylopodite.
Navesink marl, near Walnford (149).
9. Outside view of an incomplete, large right propodite.
10-11. Outside and inside views of a specimen retaining the propo-
dite, carpopodite and mesopodite of the right side, in posi-
tion.
Tinton beds, Beers Hill Cut, (129^e).
12. Outside view of the extremity of a right propodite with the
dactylopodite.
Tinton beds, Beers Hill Cut, (129^e).
13-15. Outside views of three specimens probably members of this
species.
Merchantville clay-marl; Lenola, (163).
TETRACARCINUS SUBQUADRATUS Weller, p. 852
16-17. Dorsal views of two individuals.
Cliffwood clay; Cliffwood Point, (105).
18-19. Dorsal views of two individuals.
Woodbury clay; Lorillard, (102).

PLATE CXI.



CRUSTACEA.