



PLATE I.—SPHERULITIC STRUCTURE IN GRAY FLOW RHYOLITE OF PEMBROKE FORMATION.
Northeast shore of Denbow Neck. Natural size.



PLATE II.—WEATHERED SURFACE OF DIABASE TUFF OF PEMBROKE FORMATION.
Shore of Federal Harbor. Natural size.

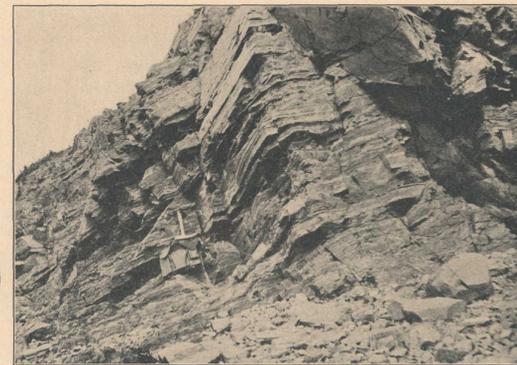


PLATE III.—TYPICAL SHALES OF THE UPPER PART OF THE EASTPORT FORMATION CUT AT THE RIGHT BY A DIKE OF RED RHYOLITE.
Northwest end of Carlow Island.

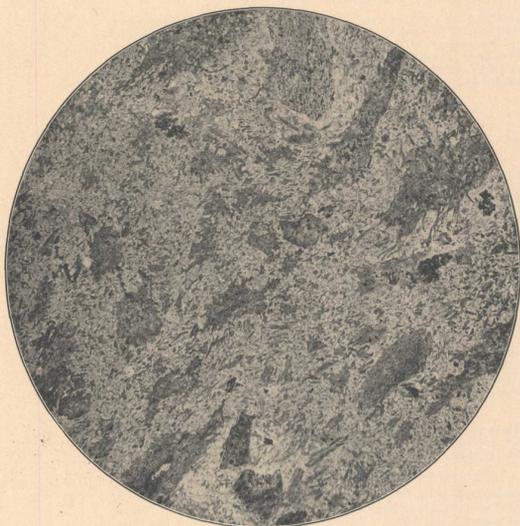


PLATE IV.—MICROPHOTOGRAPH OF DARK-RED RHYOLITE OF EASTPORT FORMATION, SHOWING FLOW-BRECCIA STRUCTURE.
Magnified 30 diameters. East shore of South Bay opposite Long Island.



PLATE V.—MICROPHOTOGRAPH OF NEARLY BLACK RHYOLITE IN EASTPORT FORMATION, SHOWING FLOW-BRECCIA STRUCTURE.
Magnified 30 diameters. East shore of South Bay opposite Long Island.

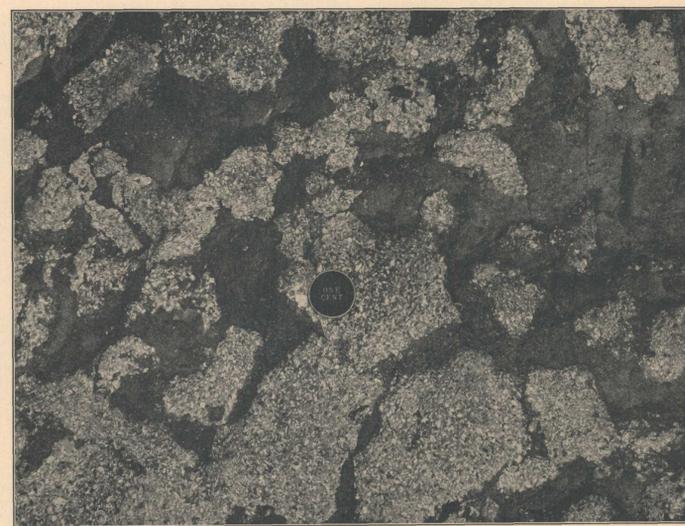


PLATE VI.—FLOW-BRECCIA STRUCTURE IN ANDESITE OF THE EDMUNDS FORMATION.
Near the point where Pembroke-Dennysville road crosses Wilson Stream. Fragments of highly porphyritic andesite are included in a dark-red aphanitic matrix.



PLATE VII.—COARSE VOLCANIC TUFF OF GRAY RHYOLITE OF EASTPORT FORMATION.
Shore of Moose Island, due south of Carlow Island.



PLATE VIII.—GRANITE BOULDERS FROM PERRY CONGLOMERATE SLICED DURING THE FOLDING AND MINOR FAULTING OF THE FORMATION AND THE FRAGMENTS RECEMENTED.
Shore northwest of Pigeon Hill, Perry.



PLATE IX.—SURFACE OF LOWER DIABASE FLOW OF PERRY FORMATION.
On shore 1 mile north of Perry. Shows abundance of calcite amygdules.

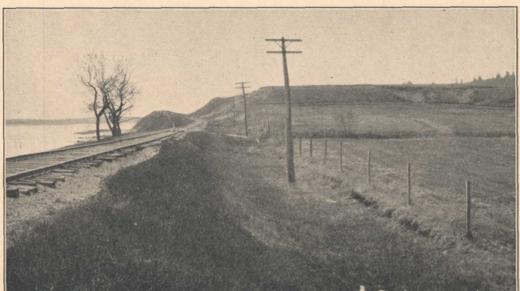


PLATE X.—VIEW LOOKING EAST FROM THE NECK BETWEEN JOHNSON AND CARRYINGPLACE COVES.

Showing the topographic position of the gravel pit shown in Plate XI. The situation and structure of these gravels show that they were deposited in the ocean when the land stood at least 100 feet lower than at present. The flats in the right foreground are marine clay.



PLATE XI.—GRAVEL PIT AT MCCOY FARM, NEAR CARRYINGPLACE COVE, MOOSE ISLAND, LOOKING EAST.

The gravels are about 30 feet thick and overlie marine clays. They show inclined structure typical of deposition in standing water. The inclined beds dip 30°-35° N.



PLATE XII.—HILL NORTHWEST OF JOHNSON COVE.

View looking east, showing the cliff-like profile of the south end of the hill, due possibly to marine erosion. The cliff is fronted on the south by gravels with "foreset" beds.



PLATE XIII.—ROCK OUTCROPS FLANKED BY FLATS OF GLACIO-MARINE GRAVELS.

Northern part of the city of Eastport. The form of the outcrops is suggestive of wave erosion.



PLATE XIV.—BOWLDER-STREWN TERRACE OF SAND AND CLAY BORDERING THE TIDAL FLAT SHOWN IN PLATE XV.

Probably formed on a tidal flat when the land stood at a lower level.

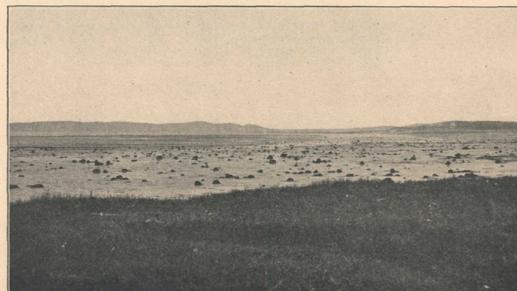


PLATE XV.—BOWLDER-STREWN TIDAL FLAT, EAST SHORE OF LUBEC NECK.

PLATE XVI.

FAUNA OF THE QUODDY FORMATION.

1. Crinoid stem. Exterior mold of joint face of an isolated segment of the stem. Enlarged 3 diameters.
2. *Plectambonites transversalis* (Wahlenberg). Pedicle valve, exterior of a worn shell. Enlarged 1 1/2 diameters.
3. *Leptana rhomboidalis* (Wilckens). Brachial valve in exterior mold, distorted by lateral extension. Enlarged 1 1/2 diameters.
4. *Dalmanella elegantula* (Dalman). Brachial valve in external mold, distorted by lateral extension. Enlarged 3 diameters.
5. *Schuchertella subplana* (Conrad). Exterior mold and interior of a distorted pedicle valve. Enlarged 2 diameters.
6. *Pentamerus cf. oblongus* Sowerby (cf. *pesovoti* Whitfield). Pedicle valve, interior mold, showing only umbonal part of shell. Enlarged 3 diameters.
7. *Atrypa reticularis* (Linné), cf. *A. nodostriata* Hall. Small brachial (?) valve, exterior mold of a crushed fragment. Enlarged 3 diameters.
8. *Anoplothea cf. barrandei* (Davidson). Pedicle valve, interior mold. Enlarged 3 diameters.
9. *Spirifer radiatus* Sowerby (cf. *S. nympha* Billings). Mold of exterior of brachial valve, showing characteristic striations. Enlarged 2 diameters.
10. *Spirifer crispus* (Hisinger) (cf. *S. staminea* Hall). Fragment of a brachial valve, showing exterior surface. Enlarged 3 diameters.
11. *Monograptus* sp. indet. Part of single rhachia with row of cellulose. Natural size.
12. *Orthoceras* sp. indet. A crushed sculpture cast. Natural size. Specimens shown in figs. 1-10 from locality on north shore of West Quoddy Head, east of life-saving station. Specimens shown in figs. 11 and 12 from locality on east shore of South Lubec, about a mile south of Woodward Point.

FAUNA OF THE DENNY'S FORMATION.

13. *Cf. Strepelasma calcicola* Hall. Side view of mold of interior. Enlarged 2 diameters.
14. *Lingula cf. obliqua* Hall. Fragment, showing interior. Natural size.
15. *Plectambonites transversalis* (Wahlenberg). Mold of an interior of a minute pedicle valve.
16. *Cf. Leptana levigata* (Sowerby). Mold of interior of pedicle valve. Enlarged 6 diameters.
17. *Cf. Leptana minima* (Sowerby) var. *grayii* Davidson. Mold of interior of brachial valve. Enlarged 6 diameters.
18. *Sternidium levisi* Davidson. Internal mold of brachial valve. Enlarged 6 diameters.
19. *Bilobites bilobus* (Linné). Mold of interior of pedicle valve. Enlarged 3 diameters.
20. *Cf. Orthos equicostalis* Davidson. Internal mold of pedicle valve. Enlarged 1 1/2 diameters.
21. *Cf. Orthos equicostalis* Davidson. Internal mold of brachial valve. Enlarged 1 1/2 diameters.
22. *Beurichia maccoyana* Jones var. External mold of right valve. Enlarged 10 diameters.
23. *Pterinea* (?) sp. Fragment of left valve. Enlarged 3 diameters.
24. *Spirifer crispus* (Hisinger). Mold of interior of brachial valve. Enlarged 2 diameters.
25. *Spirifer crispus* (Hisinger). A pedicle valve on a fragment of *Strophonella* (?). Natural size.
26. *Beurichia maccoyana* Jones var. Both valves in conjunction, distorted. Enlarged 10 diameters.
27. *Beurichia spinulosa* Boll var. Enlarged 10 diameters.
28. *Bolita hoodiana* Jones. Enlarged 10 diameters.
29. *Dalmanites longicaudatus* Murchison. A specimen showing pygidium and elongate spine. Enlarged 4 diameters.
30. *Cytherella concinna* Jones. Enlarged 10 diameters.
31. *Cytherella concinna* var. *oculis* Jones. About 2 miles east of Dennyville, on south side of Duck Harbor, one-fourth mile east of iron bridge.

PLATE XVII.

FAUNA OF THE EDMUNDS FORMATION.

- Whitfieldella edmundsi* Williams.
1. Brachial valve, showing muscular impressions.
 2. Front view of same specimen.
 3. A small specimen, showing spiral arms in the interior. Enlarged 2 1/2 diameters.
 4. Pedicle valve of same specimen as that shown in fig. 2. East shore of Burnt Cove, south of Cunningham Mountain, Edmunds Township.
- Chonetes edmundsi* Williams.
5. Pedicle valve, showing interior surface. Natural size.
 6. Mold of exterior of pedicle valve, showing spines. Enlarged 2 diameters.
 15. Brachial valve, interior. Natural size.
 16. Pedicle valve, showing spines. Enlarged 2 diameters. Specimens shown in figs. 5, 15, and 16 from locality one-half mile south of Field Point. Specimen shown in fig. 6 from west side of Burnt Cove, Edmunds Township.
- Wilsonia saffordi* Hall.
7. Front view of specimen, showing both valves. Enlarged 1 1/2 diameters.
 8. View of same specimen, showing interior of brachial valve.
 11. Cardinal view of another specimen. Enlarged 1 1/2 diameters.
 12. View of pedicle valve, interior, same specimen as fig. 11. East shore of Burnt Cove, south of Cunningham Mountain, Edmunds Township.
- Wilsonia wilsoni* (Sowerby).
13. View of exterior of pedicle valve, taken from wax mold. Natural size.
 14. Cardinal view of specimen, showing both valves, somewhat crushed endwise. Natural size. West shore of Falls Point, near the southern extremity of Leighton Neck, Pembroke Township.
- Chonetes striatella* (Dalman).
17. Mold of the interior of a pedicle valve, showing the typical characters of the species. In the original the bases of four spines are seen each side of the middle of hinge but are not shown in the figure. Natural size. West side of cove, about a mile southwest of Race Point, north-east part of Crowe Neck, Trescott Township.
- Chonetes cf. striatella* (Dalman).
9. A small pedicle valve, showing the general character expressed by the younger part of a typical *C. striatella* but not so wide as normal. It comes from the beds that furnished the specimen shown in fig. 17 and is interpreted to be a young of the same species. Enlarged 1 1/2 diameters. Crowe Neck, Trescott Township.
- Chonetes cobscooki* Williams.
10. Mold of the interior of a pedicle valve, showing a form that is less transverse than some of the specimens of the species, and that bears finer and more numerous lineations than *C. striatella*. Natural size. Calcareous shales south of Field Point, Edmunds Township.
- Monomerella woodwardi* (Salter).
18. Mold of the exterior of a pedicle valve. Seven-eighths natural size.
 19. Exterior of a brachial valve, showing the sculpture of external surface. Seven-eighths natural size. Gray tufts at Field Point, west side of Cobscook River, Edmunds Township.
- Pentamerus galeatus* (Dalman).
20. A somewhat crushed pedicle valve, showing the sulcus and radial plications. Natural size.
 - 21, 22. An exfoliated pedicle valve, showing the general form, the interior surface markings, and the median septum.
 23. A somewhat distorted shell, showing exterior of a pedicle valve, with smooth sides and plications in the sulcus. Calcareous shales on west side of Burnt Cove, Edmunds Township.
- Meristina tumida* (Dalman).
24. Exterior of pedicle valve, showing smooth surface, the radial striations on the inner layers where exfoliated at right lower corner of figure, and the median furrow reaching to the beak. Natural size.
 25. A fragment showing the median furrow and depressed beak.
 26. A mold of interior of pedicle valve, showing mold of the muscular scar and the longitudinal striations on the interior surface. Burnt Cove, Edmunds Township.

PLATE XVIII.

FAUNA OF EDMUNDS FORMATION.

- Leptostrophia filosa* (Sowerby).
1. Two molds of the interior of a pedicle valve, showing the hinge crenulations not extending to the extremities of the hinge, the muscular impressions, and the minute papillose vascular markings on each side of the muscular impressions. Natural size. West shore of Cobscook River, opposite Wilber Point, Edmunds Township.
 4. Another mold of a slightly larger specimen. Natural size. Locality same as fig. 1.
 5. Mold of cardinal portion of a brachial valve, showing the hinge crenulations, the crural process somewhat distorted, and the muscular impressions. Enlarged 2 diameters. Locality same as fig. 1.
 6. Exterior of a pedicle valve, showing the surface sculpture; taken from wax impression of original. Natural size. Locality same as fig. 1.

PLATE XVIII—Continued.

8. Mold of interior of a brachial valve, showing the impression of the upper part of the muscular scars and the crural and cardinal processes. Natural size. Locality same as fig. 1.
 - 9a, 9b. Molds of the interior (9a) and exterior (9b) of two pedicle valves, showing the surface sculpture, the muscular scars, the vascular papilla, and the crenulations limited to the central portion of the hinge area. Enlarged 2 diameters. Locality same as fig. 1.
- Brachyprion shaleri* Williams.
2. Mold of interior of a brachial valve, showing the hinge crenulations, cardinal process, crural process, dental sockets, and the strong ridges bounding the muscular impression. Enlarged 2 diameters. East shore of Burnt Cove, south of Cunningham Mountain, Edmunds Township.
 3. Exterior of a small (?) pedicle valve, showing the surface sculpture. Enlarged 2 diameters. Shore of small bay west of Field Point, south-east of Bells Mountain, Edmunds Township.
 7. Mold of interior of a pedicle valve, showing the short crenulated area and smooth terminal portion of the hinge and the subquadrate form of the muscular area bounded by strong subparallel ridges. Enlarged 2 diameters. West shore of Cobscook River, opposite Wilber Point, Edmunds Township.

PLATE XIX.

FAUNA OF EDMUNDS FORMATION.

- Palaepecten transversalis* Williams.
1. An imperfect mold of the interior of a left valve, showing the transversely elongate form, the rays, and the absence of a differentiated anterior ear. Natural size. East shore of Cobscook River, opposite Burnt Cove, Trescott Township.
 2. Mold of exterior of the same specimen. Locality same as fig. 1.
- Palaepecten cobscooki* Williams.
3. A nearly complete mold of the interior of left valve, showing the erect form, the characteristic radii, the pectinoid form, and the crural ridges. This species is the type of the genus. Natural size. Locality same as fig. 1.
- Tolmaia campestris* Williams.
4. A left valve, from a wax mold, showing the rectangular surface sculpture over body, ear, and wing. Natural size. Field Point on west shore of Cobscook River, Edmunds Township.
 5. Natural mold of interior of a right valve, showing through the thin and partly eroded shell the exterior surface sculpture over all parts of the right valve. Locality same as fig. 4.
- Palaepecten danbyi* (McCoy) sens. strict. Williams.
6. A small specimen, showing the mold of the exterior of a left valve, representing also the form of McCoy's pl. 11, fig. 11, British Paleozoic Fossils, taken as the typical form of his species. Under highway bridge crossing Wilson Stream at head of the tidal inlet, 2 miles north of village of Dennyville.
 7. A large specimen of the left valve, drawn from an exterior mold. Locality same as fig. 6.
- Pterinea* (*Tolmaia* ?) *trescotti* Williams.
8. A left valve, showing natural mold of the interior surface, the strong radii, traces of the cardinal teeth under the beak, the lateral tooth, and the well defined and developed anterior ear. Natural size. Cove on east side of Crowe Neck near north end, Trescott Township.
 9. Another specimen, showing interior of a right valve. Locality same as fig. 8.

PLATE XX.

FAUNA OF PEMBROKE FORMATION.

- Dalmanella lunata* (Sowerby).
1. A pedicle valve, drawn from a rubber mold of the exterior. Enlarged 1 1/2 diameters. Head of Leighton Cove, Pembroke Township.
 2. A small (young) specimen of the pedicle valve, showing natural mold of the interior. Enlarged 1 1/2 diameters. Locality same as fig. 1 but higher up stratigraphically.
 3. A pedicle valve of the broader type, taken from a wax mold of the exterior. Enlarged 1 1/2 diameters. Locality same as fig. 1.
 4. A small (young) brachial valve, from a stone mold of the interior. Enlarged 1 1/2 diameters. Locality same as fig. 2.
 5. A brachial valve showing the exterior, drawn from a wax mold of the exterior. Enlarged 1 1/2 diameters. Locality same as fig. 1.
 8. A pedicle valve of the wide variety, taken from a mold of the exterior. Enlarged 1 1/2 diameters. Leighton Cove, Pembroke Township. Figs. 1 and 5 show the form of the greater number of specimens. Figs. 3 and 8 show the wide form.
- Chonetes bastini* Williams.
6. Exterior of a pedicle valve, drawn from a partly exfoliated mold, the drawing being made to represent the exterior. Enlarged 1 1/2 diameters.
 7. Exterior of a pedicle valve, drawn from a rubber mold of the exterior, showing the spines and a median furrow. Enlarged 1 1/2 diameters.
 10. A slab showing several specimens. The specimen at the upper left-hand corner of the slab is over 20 millimeters wide and barely 10 millimeters long. The specimen on lower right-hand corner has proportions near to those of *C. novaezelandicus* Hall. On the middle of the sloping side to the left is the mold of an exterior on which the median line is larger than ordinary. Natural size. Leighton Cove, Pembroke Township.
- Camartoechia leightoni* Williams.
9. A brachial valve, mold of the interior, showing the median septum, the plications smooth for the early part of growth, the concentric imbrications not appearing till late stage in growth.
 11. A pedicle valve, mold of interior, showing the sinus with three well-defined plications and the imbrications beginning at mid-growth.
 12. A pedicle valve, drawn from a rubber mold of the exterior, showing the characteristic smoothness of plications in upper part and concentric imbrications in lower half of shell.
 13. Front view of interior, showing both valves. The specimen is compressed from front to back, making it appear more gibbous than normal. Leighton Cove, Pembroke Township.
- Actinopteria formicata* Williams.
- 14, 15, 16. Three views of the same specimen, showing internal form and the surface sculpture on fig. 14. Natural size. Northwest shore of Youngs Cove, Pembroke Township.
- Actinopteria bella* Williams.
17. A natural mold of the exterior of a left valve, slightly enlarged, showing the concentric lines over the whole surface, the radiating lines confined to the body of the shell. Leighton Cove, Pembroke Township.
 19. Mold of interior of a right valve, showing concentric lines over the whole surface but no radii. Locality same as fig. 17.
- Actinopteria dispar* Williams.
20. Mold of interior of a left valve. Natural size. Leighton Cove, Pembroke Township.
 21. A small left valve. Enlarged 2 diameters. Locality same as fig. 20.
- Lingula scobina* Williams.
18. A specimen showing the original shell over part of the surface and its peculiar surface sculpture. Enlarged 3 diameters. Leighton Cove, Pembroke Township.

PLATE XXI.

FAUNA OF PEMBROKE FORMATION.

- Orthoceras cf. imbricatum* Sowerby.
1. Partial cast of a fragment with thirty abandoned chambers and most of the body or living chamber.
 - 1a. View of a septum, showing position of siphon.
 11. Partial cast of a fragment, showing ventral bend of the sutures. Leighton Cove, Pembroke Township.
- Calyptene blumenbachi* (Brongniart).
2. Wax impression of exterior mold of cranidium.
 - 2a. Profile of same.
 5. Wax impression of exterior mold of tail or pygidium. Head of Long Cove, Leighton Neck, Pembroke Township.
- Acoste downingia* (Murchison).
3. Specimen incomplete on left side, showing upper view of whole shell, drawn from impression of exterior mold. Leighton Cove, Pembroke Township.
- Platyschisma helictes* (Sowerby).
4. Dorsal view of spine of a specimen, showing the outer surface. Enlarged 1 1/2 diameters.
 6. Umbilical view of same specimen.
 8. Apertural view of same specimen. Leighton Cove, Pembroke Township.
- Orbiculodea cf. morrisi* (Davidson).
7. Brachial valve of partly decorticated shell. Enlarged 2 diameters.
 - 7a. Profile of both valves; restoration. Leighton Cove, Pembroke Township.

PLATE XXI—Continued.

- Orbiculodea rugata* (Sowerby).
9. Brachial valve of partly decorticated shell. Enlarged 2 diameters.
 - 9b. Pedicle or flat valve in external mold. Enlarged 2 diameters.
 10. Profile of both valves. Horan Head, west side of South Bay, Lubec Township.
- Pholidops implicata* (Sowerby).
- 12, 13. Impressions from exterior molds of two isolated valves. Enlarged 6 diameters.
- 12a. Profiles of both valves; restoration. East side of Leighton Point, Pembroke Township.
- Palaepecten danbyi* (McCoy).
14. Left or rayed valve, sculpture cast. Enlarged 1 1/2 diameters. Horan Head, west side of South Bay, Lubec Township.
- Cornulites serpularius* var. *bellistriatus* Hall.
15. Wax impression from crushed and flattened exterior mold, showing the form and the exterior sculpturing. Natural size. Leighton Cove, Pembroke Township.
- Bellerophon* (*Tropidodiscus*) *carinatus* Sowerby.
- 16, 17. Interior molds, umbilical and dorsal views. Enlarged 2 diameters. Leighton Cove, Pembroke Township.
- Orthoceras* (*Dawsonoceras*) *perelegans* Salter.
18. A fragment showing the central portion of the cone with the surface sculpture. Leighton Cove, Pembroke Township.
- Bellerophon globatus* Sowerby (? = *expansus* Sowerby).
19. Sculpture cast, dorsal view. Enlarged 2 diameters. Horan Head, west side of South Bay, Lubec Township.
- Bellerophon* (*Plectonotus*) *trilobatus* Sowerby.
20. Partial interior and exterior mold, apertural view, of the largest specimen observed. The specimen shows the adult form with expanded lip, deep furrows proceeding to extreme front, separating the shell into three lobes; a marginal sinus (not shown in this figure) which is continued backward along the keel as a distinct slit band. Natural size. Leighton Cove, Pembroke Township.

PLATE XXII.

FAUNA OF PEMBROKE FORMATION.

- Grammysia pembrokeensis* Williams.
2. A right valve. The specimen is believed to be slightly elongated transversely from its natural form. The anterior front of the shell is more sharply angular than associated specimens. Enlarged 1 1/2 diameters. Purple shales of upper part of Pembroke formation in several localities in Pembroke Township.
- Grammysia cf. pembrokeensis* Williams.
3. Specimens showing great differences from the typical characters of the species, probably due almost entirely to distortion of the shell after fossilization. Enlarged 1 1/2 diameters. Purple shales of Pembroke formation, exposed on west shore of northernmost cove of Sipp Bay, south of highway bridge, 1 1/2 miles east of Pembroke village.
- Grammysia triangulata* (Salter).
18. A specimen of the left valve, closely representing the form of one of Salter's figures of the species. Natural size. Tough gray sandstone beds of Pembroke formation at head of Long Cove, near the base of the formation, Leighton Neck, Pembroke Township.
- Leiopteria* sp. indet.
- 4a. A small left valve. Enlarged 1 1/2 diameters. Purple shales at head of Sipp Bay, 100 yards south of highway bridge, about 1 1/2 miles east of Pembroke village.
- Eurymyella shaleri* var. *minor* Williams.
5. A small specimen showing left valve, having the general form and size of the species as it occurs in the Carlow member of the Eastport formation. Enlarged 3 diameters. Purple shales in upper part of the Pembroke formation, on west shore of Sipp Bay, south of highway bridge, about 1 1/2 miles east of Pembroke village.
- Lingula minima* var. *americana* Williams.
6. A specimen a little larger than medium size, showing the general form of the species. Enlarged 2 diameters. Locality same as fig. 5.
- Modiolopsis leightoni* Williams.
- 7, 8, 9, 10. A set of two right and two left valves, showing the fluctuating characters presented by the species. Enlarged 1 1/2 diameters. Argillaceous shales at head of Leighton Cove, Pembroke Township.
- Modiolopsis leightoni* var. *quadrata* Williams.
- 12, 13. Two left valves. Fig. 12 shows the ordinary form. Enlarged 1 1/2 diameters. Locality same as figs. 7-10.
- Nuculites corrugata* Williams.
11. A right valve, the shape a little shorter and the ventral margin a little more arched than average form. Enlarged 1 1/2 diameters. Gray argillaceous shales at head of Leighton Cove, Pembroke Township.
 14. A right valve of about normal form, except that by crushing the ventral border is rolled under the edge; if flattened out it would add about a millimeter to the height. Locality same as fig. 11.
- Platyschisma helictes* (Sowerby).
- 15, 16. Two views of a medium-sized specimen that by pressure has been elongated in the direction of the mouth, giving a lower spine than is common. Enlarged 2 diameters. Upper purple shales of the Pembroke formation on eastern shore of Hersey Cove, Pembroke Township.
 17. A slab showing the molds of exterior of minute specimens, probably young. Enlarged 2 diameters. Upper purple shales of the Pembroke formation on eastern shore of Hersey Cove, Pembroke Township.

PLATE XXIII.

FAUNA OF EASTPORT FORMATION.

- Eurymyella shaleri* Williams.
1. A right valve. Natural size. Shackford Head, Moose Island.
 2. A left valve, crushed. Natural size. Salt works, city of Eastport.
 3. A left valve, normal size and shape. Natural size. Salt works, city of Eastport. Shackford member of the Eastport formation.
- Eurymyella shaleri* var. *brevis* Williams.
- 4, 5. A right and left valve. Natural size. Locality same as figs. 2 and 3.
- Eurymyella shaleri* var. *longa* Williams.
6. A left valve. Natural size. East side Seward Neck, near North Lubec landing.
- Eurymyella angularis* Williams.
- 7, 8. Right and left valves of normal size. Natural size. From the upper part of a thick series of gray shales on south side of river below North Lubec Landing, Lubec Township.
- Eurymyella recta* Williams.
9. A left valve, normal size, made from wax impression. Natural size. Locality same as fig. 7.
- Eurymyella plana* Williams.
12. A left valve. Natural size. Locality same as fig. 7.
- Lingula cornea* Sowerby.
10. A valve with the outer layers of the shell removed from lower part, showing the fine radiating lines. Enlarged 1 1/2 diameters. Shackford member of the Eastport formation on the north shore of Moose Island, west of Kendall Head.
 11. A specimen somewhat shorter than specimen shown in fig. 10, the two showing the variation assumed by the species in the Eastport formation. Enlarged 1 1/2 diameters. Carlow member of the Eastport formation, Carlow Island.
- Streptotrochus carinatus* Williams.
18. A specimen showing the carinated whorls. Enlarged 2 diameters. Shales of the Shackford member of the Eastport formation on south side of Shackford Head, Moose Island.
- Streptotrochus sulcatus* Williams.
14. A specimen from same slab as fig. 13. Enlarged 2 diameters.
- Streptotrochus regularis* Williams.
15. A specimen showing no revolving carina. From the same slab as fig. 13. Enlarged 2 diameters.
- Streptotrochus ione* Williams.
16. A nearly perfect shell showing carina on next to last whorl and sulcus on outer whorl, from same slab as fig. 13. Enlarged 2 diameters.
- NOTE.—The four specimens shown in figs. 13-16, which lie on a single slab, exhibit the great variability generally expressed by this shell wherever collected in the Eastport shales. The specific names are given to designate different forms, although their specific rank may be questioned.

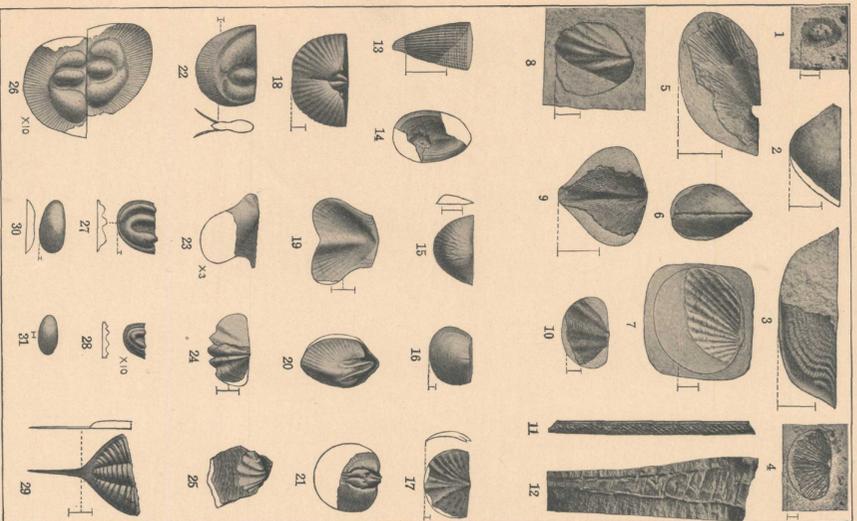


PLATE XVI.—FAUNAS OF QUODDY AND DENNIS FORMATIONS.
Figures 1-12, Quoddy formation; figures 13-31, Dennis formation.

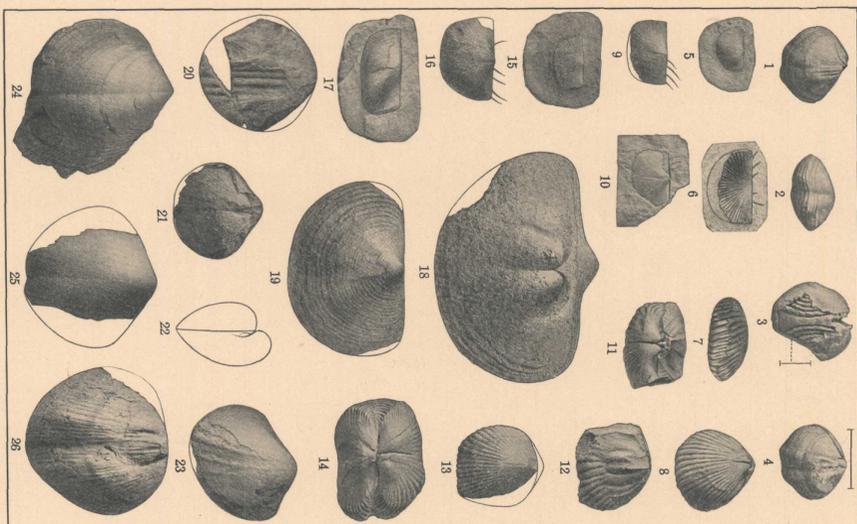


PLATE XVII.—FAUNA OF EDMUNDS FORMATION.

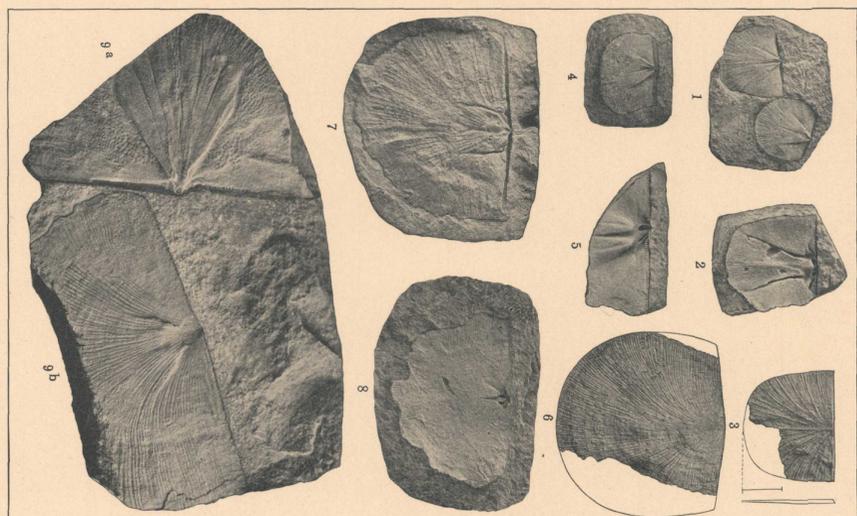


PLATE XVIII.—FAUNA OF EDMUNDS FORMATION.



PLATE XIX.—FAUNA OF EDMUNDS FORMATION.

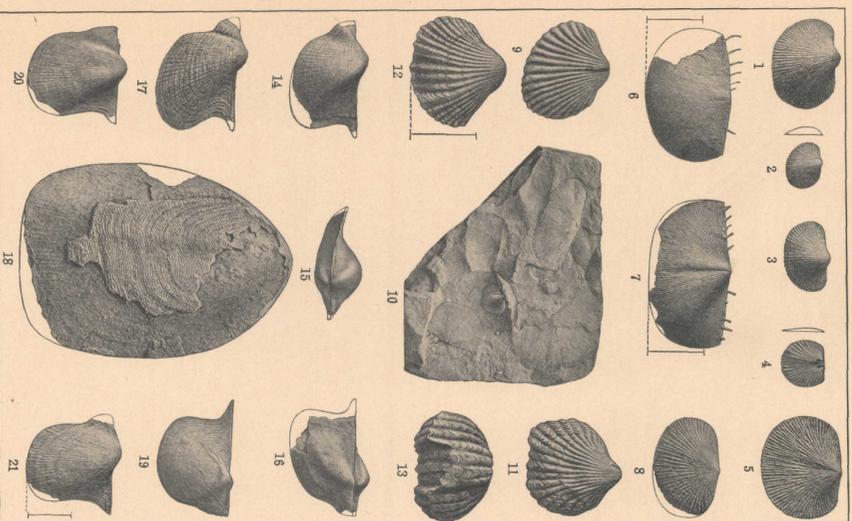


PLATE XX.—FAUNA OF PEMBROKE FORMATION.

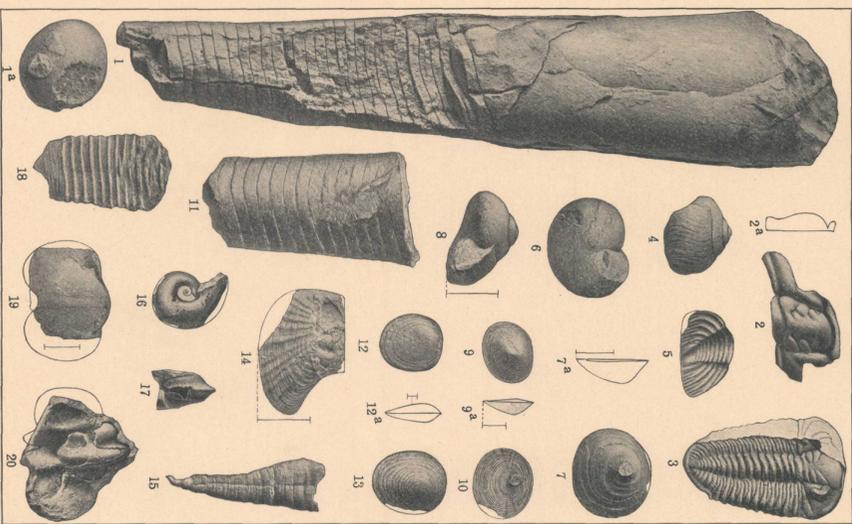


PLATE XXI.—FAUNA OF PEMBROKE FORMATION.

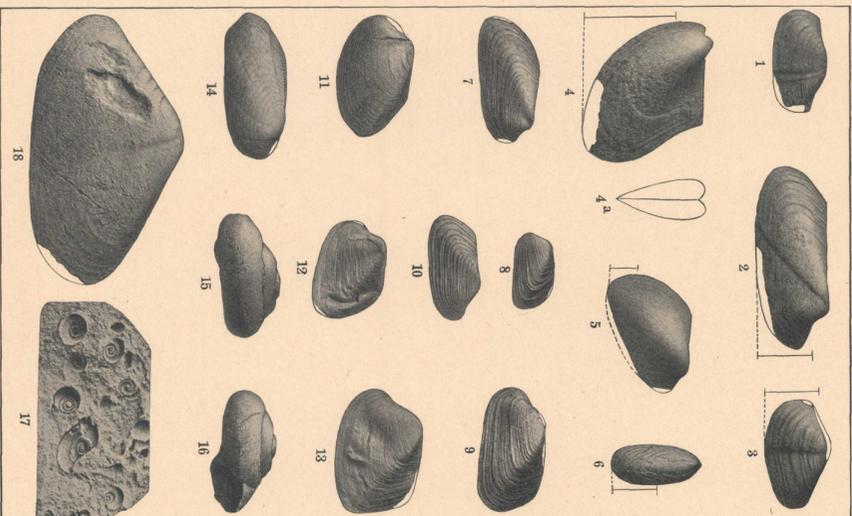


PLATE XXII.—FAUNA OF PEMBROKE FORMATION.

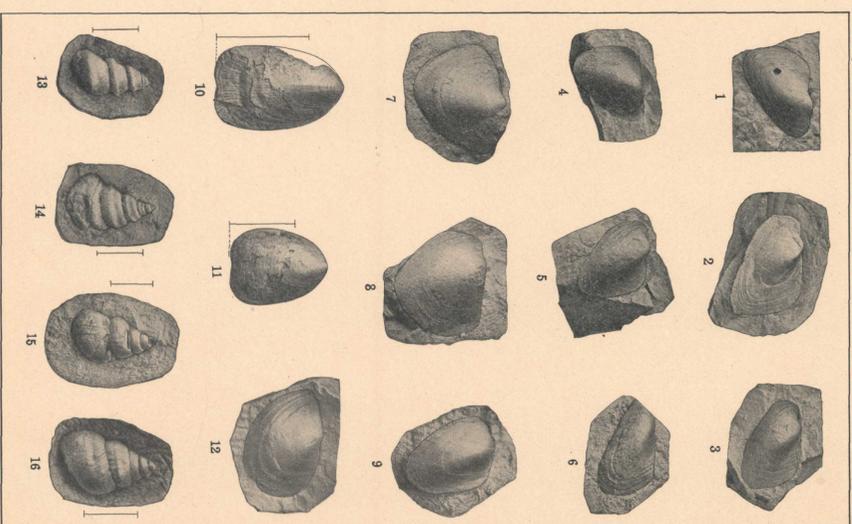


PLATE XXIII.—FAUNA OF EASTPORT FORMATION.