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**A monograph of the Mollusca from the Great Oolite, chiefly from
Minchinhampton and the coast of Yorkshire**

Morris, John

London, 1850-1863

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[Pl. XXXI - XLV.]

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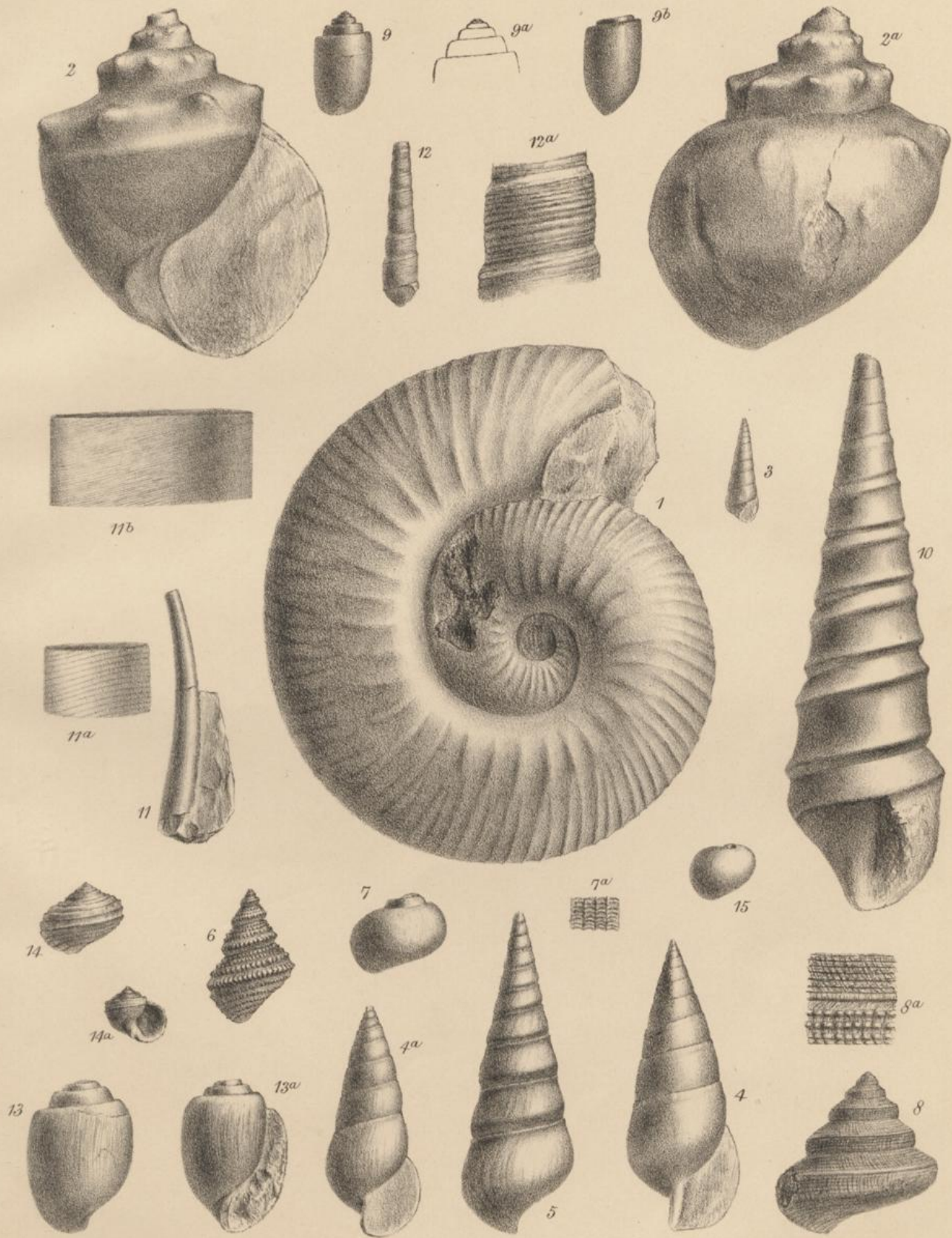
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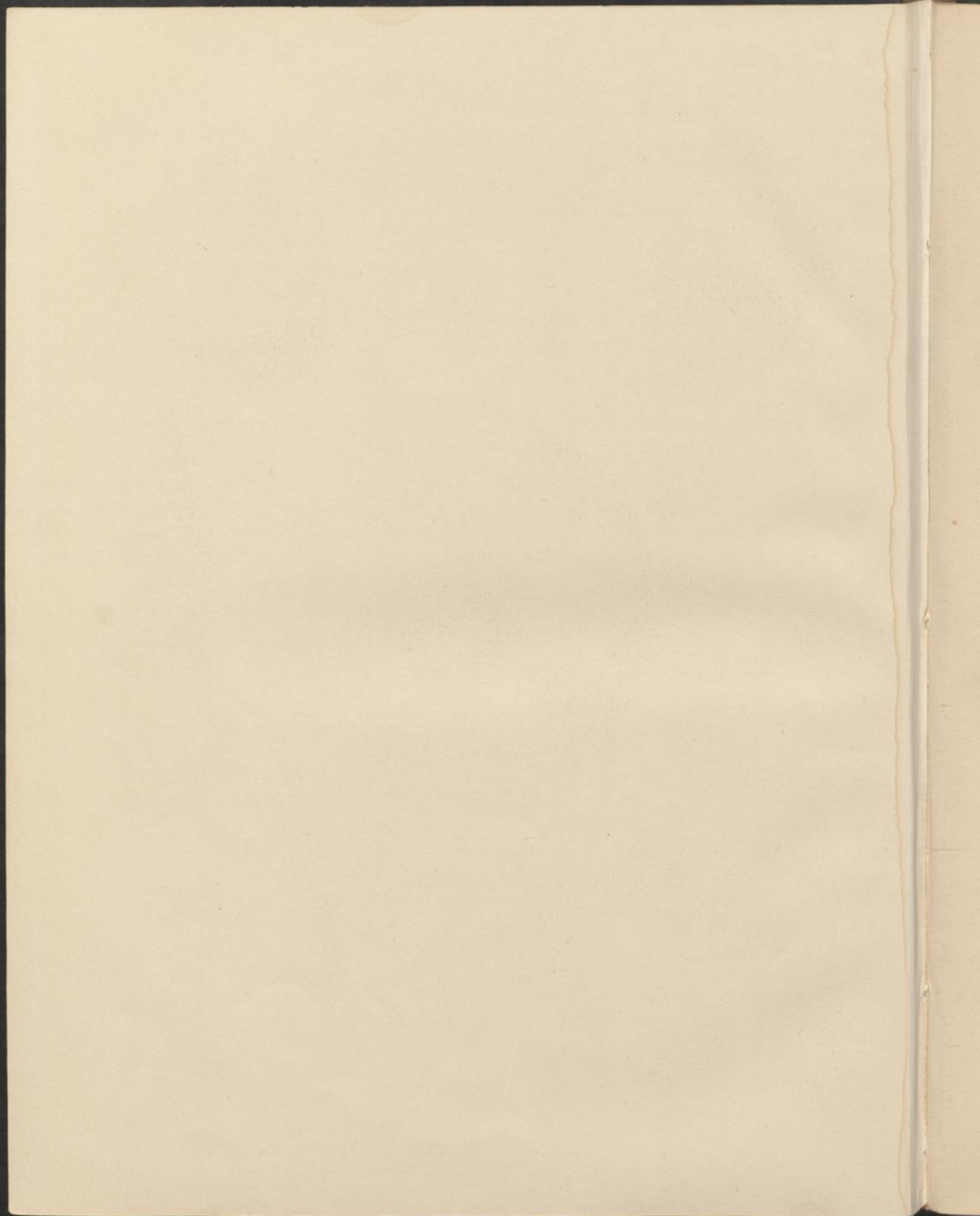
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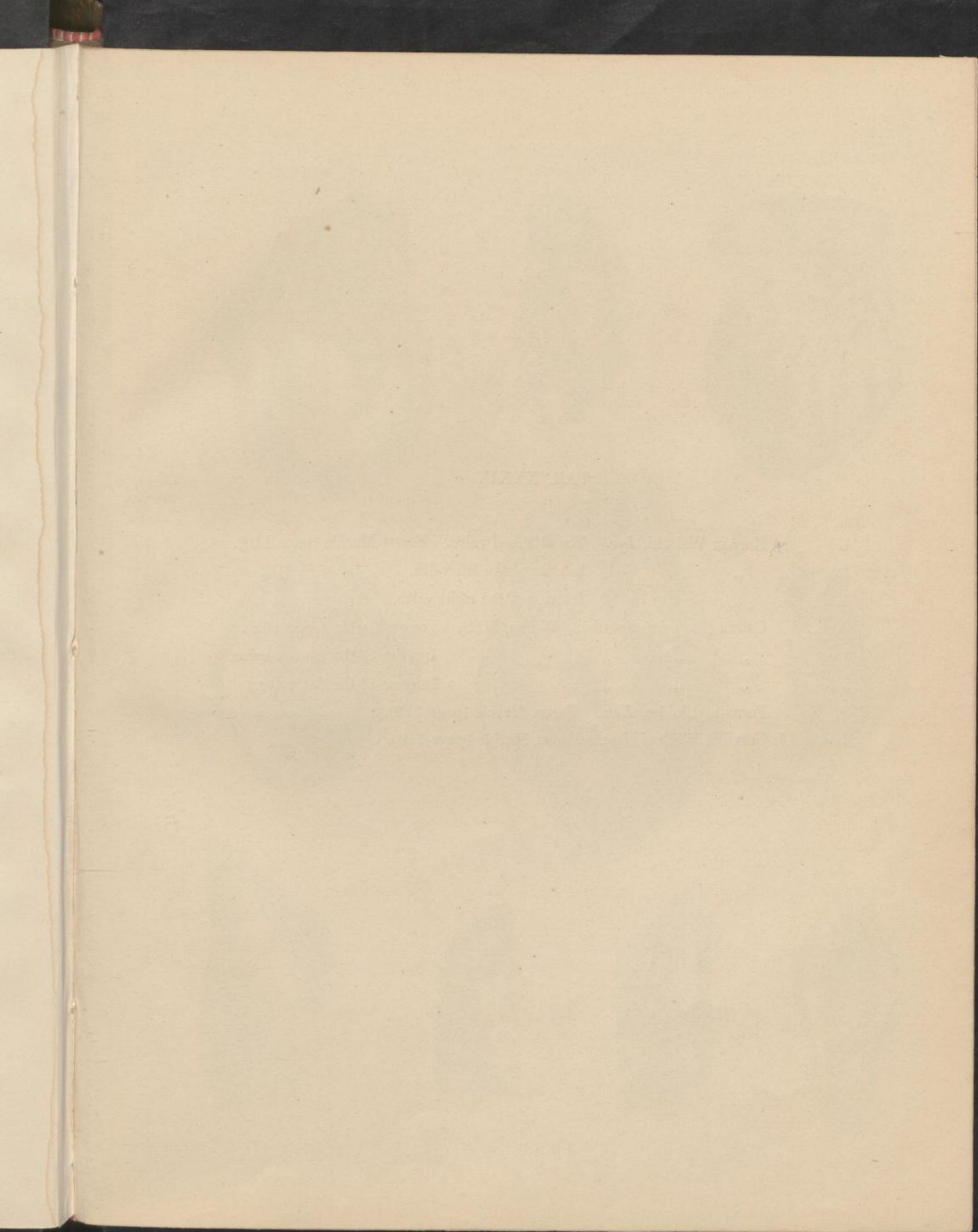
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TAB. XXXI.

- FIG.
1. Ammonites Bullatus, *D'Orb.* Reduced one half. Great Oolite (page 3).
 - 2, 2 a. Purpuroidea insignis, *Lyc.* An aged shell, in which the tubercles have disappeared upon the anterior portion of the last volution. Great Oolite (page 6).
 3. Eulina? lævigata, *Lyc.* Cornbrash (page 13).
 4. Fibula variata, *Lyc.* Specimen with the anterior extremity of the aperture approaching to Cerithium.
 - 4 a. " " With the anterior part of the aperture approaching to Turritella. From the Great Oolite of Kirklington, Oxon. (page 16).
 5. " eulimoides, *Whiteaves.* From the Great Oolite of Stonesfield (page 17).
 6. Amberleya armigera, *Lyc.* Cornbrash (page 20).
 7. Neritopsis Archiaci, *D'Archiac,* sp. Cornbrash (page 21).
 - 7 a. " " A portion of the surface magnified (page 21).
 8. Pleurotomaria granulata, *Sow.,* sp. Cornbrash (page 24).
 - 8 a. " " A portion of the surface magnified, including the fascia of the sinus.
 9. Acteonina canaliculata, *Lyc.* Great Oolite of Kirklington, Oxon. (page 27).
 - 9 a. " " The spire enlarged.
 10. Chemnitzia vittata, *Phil.,* sp. Cornbrash (page 14).
 11. Dentalium entaloides, *Desl.* Cornbrash (page 28).
 - 11 a. " " A portion of the posterior part of the shell enlarged, to exhibit the oblique striations.
 - 11 a. " " Enlarged view of the anterior portion of the shell, in which the striations have disappeared.
 12. Nerinæa granulata, *Phil.,* sp. Cornbrash (page 10).
 12. " " A portion of the spire enlarged.
 - 13, 13 a. Acteonina Scarburgensis. Cornbrash (page 28).
 14. Monodonta Lycetti, *Whiteaves.* Bradfordian beds of Islip, Oxon. (page 22).
 15. Nerita involuta, *Lyc.* Great Oolite, Kirklington (page 20).
 16. Acteonina Luidii, *Luid.,* sp. Forest Marble, Kidlington, Oxon. A small specimen, with short spire (page 27). See also Tab. LXI, figs. 18 a, b, c.

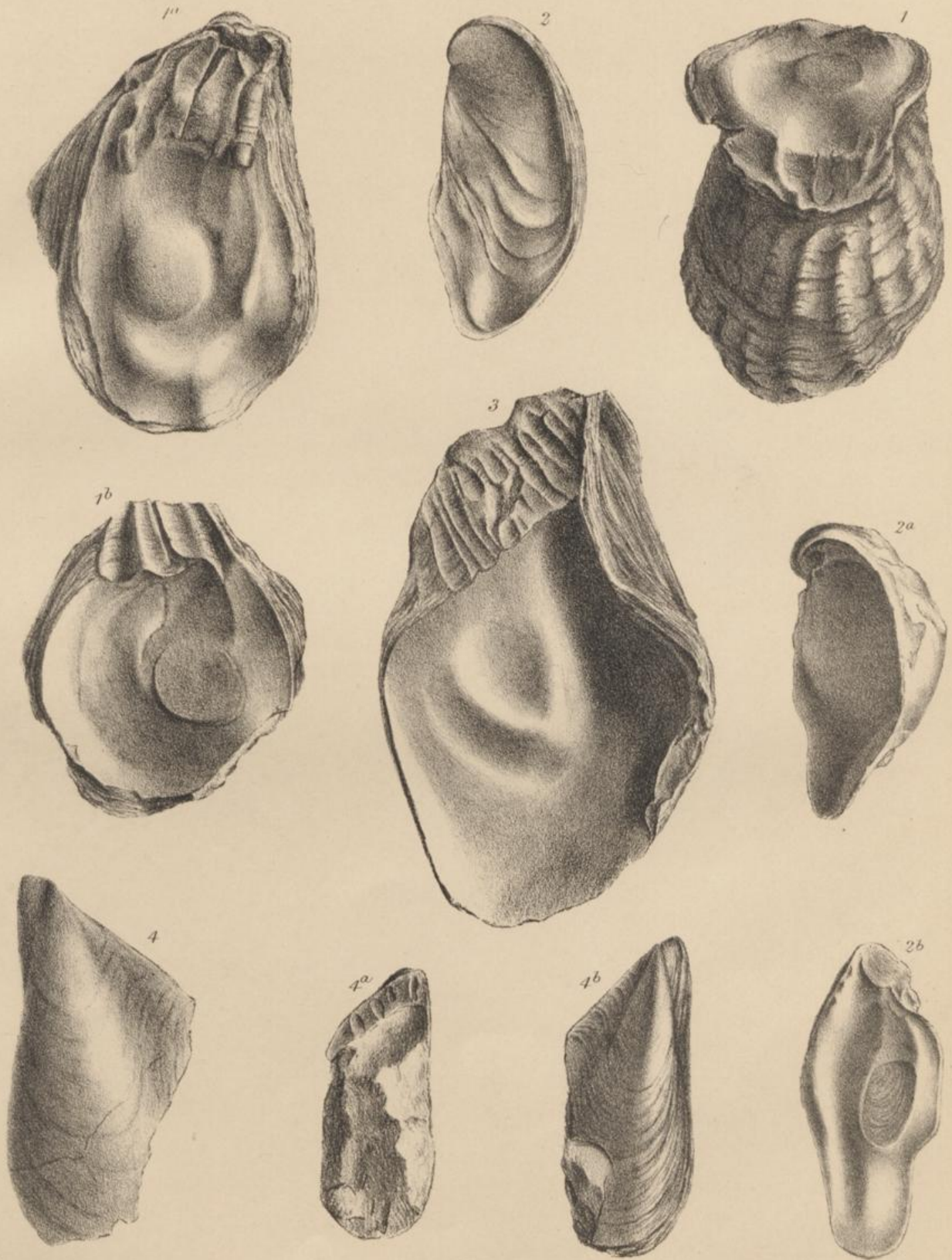






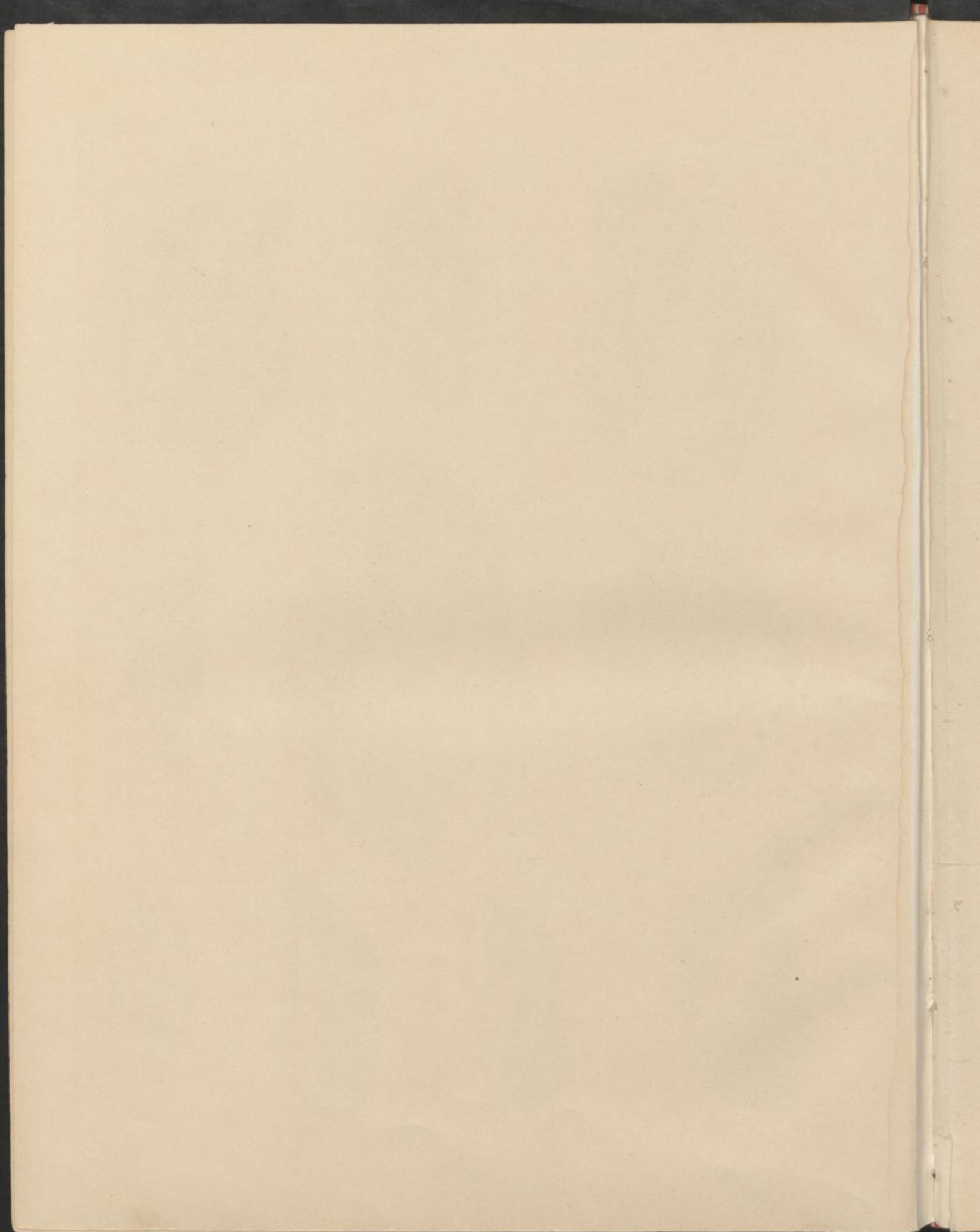
TAB. XXXII.

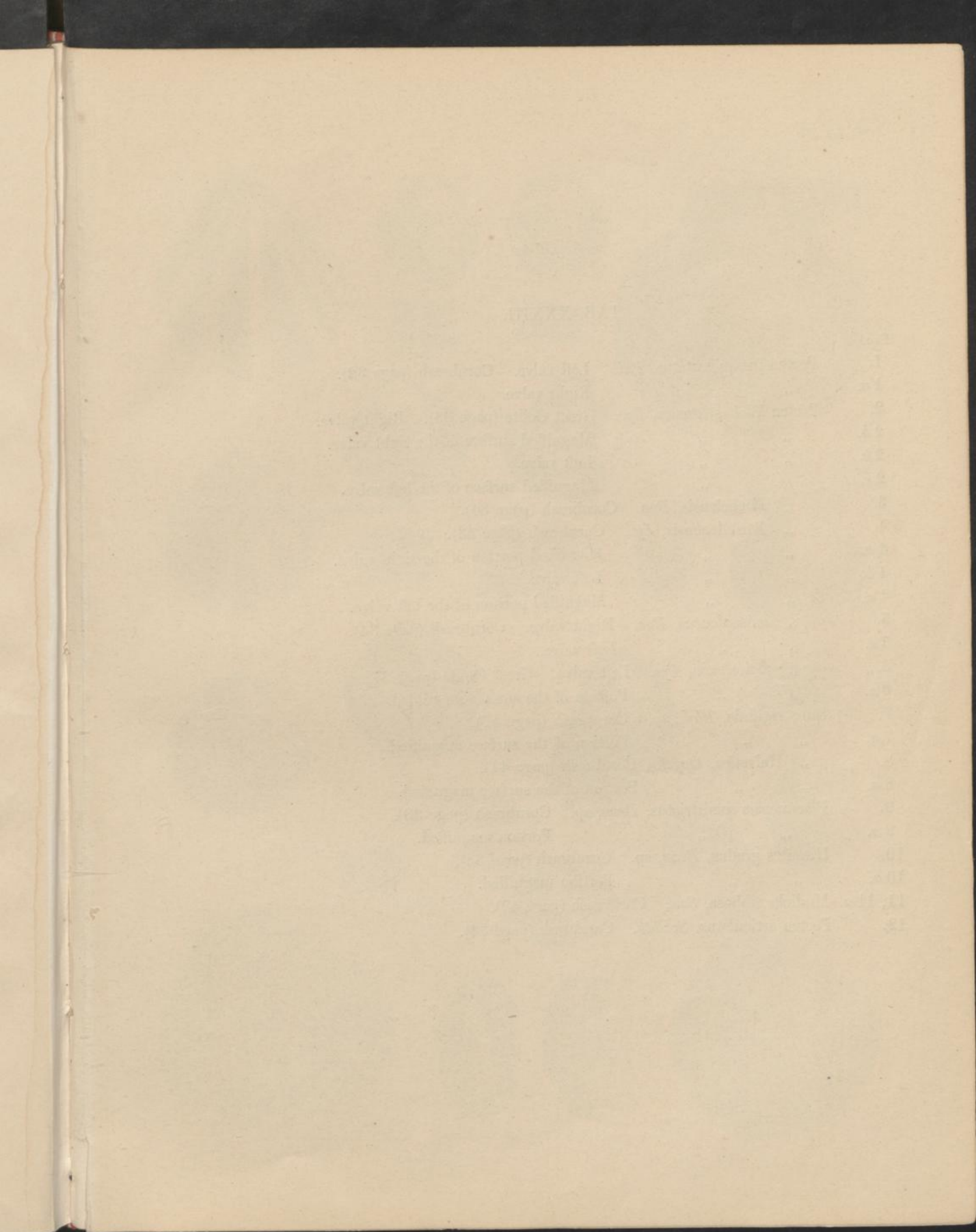
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|--------------|---|-------------------------------|------------------------------------|
| FIG. | <i>Glicatula</i> | | |
| 1. | Harpax Waltoni, <i>Lyc.</i> | The attached valve. | Forest Marble (page 110). |
| 1 a. | " " | Interior of the left valve. | |
| 1 b. | " " | Interior of the right valve. | |
| 2. | Ostrea (Exogyra) lingulata, <i>Walton, MSS.</i> | | Forest Marble (page 108). |
| 2 a. | " " " | Interior of the convex valve. | |
| 2 b. | " " " | Interior of the flat valve. | |
| 3. | Perna mytiloides, <i>Lam.</i> | Forest Marble (page 112). | <i>Bradfordiensis</i> Roll. & Lyg. |
| 4, 4 a, 4 b. | Gervillia Waltoni, <i>Lyc.</i> | Forest Marble (page 110). | |



Geo. West. lith. ad nat.

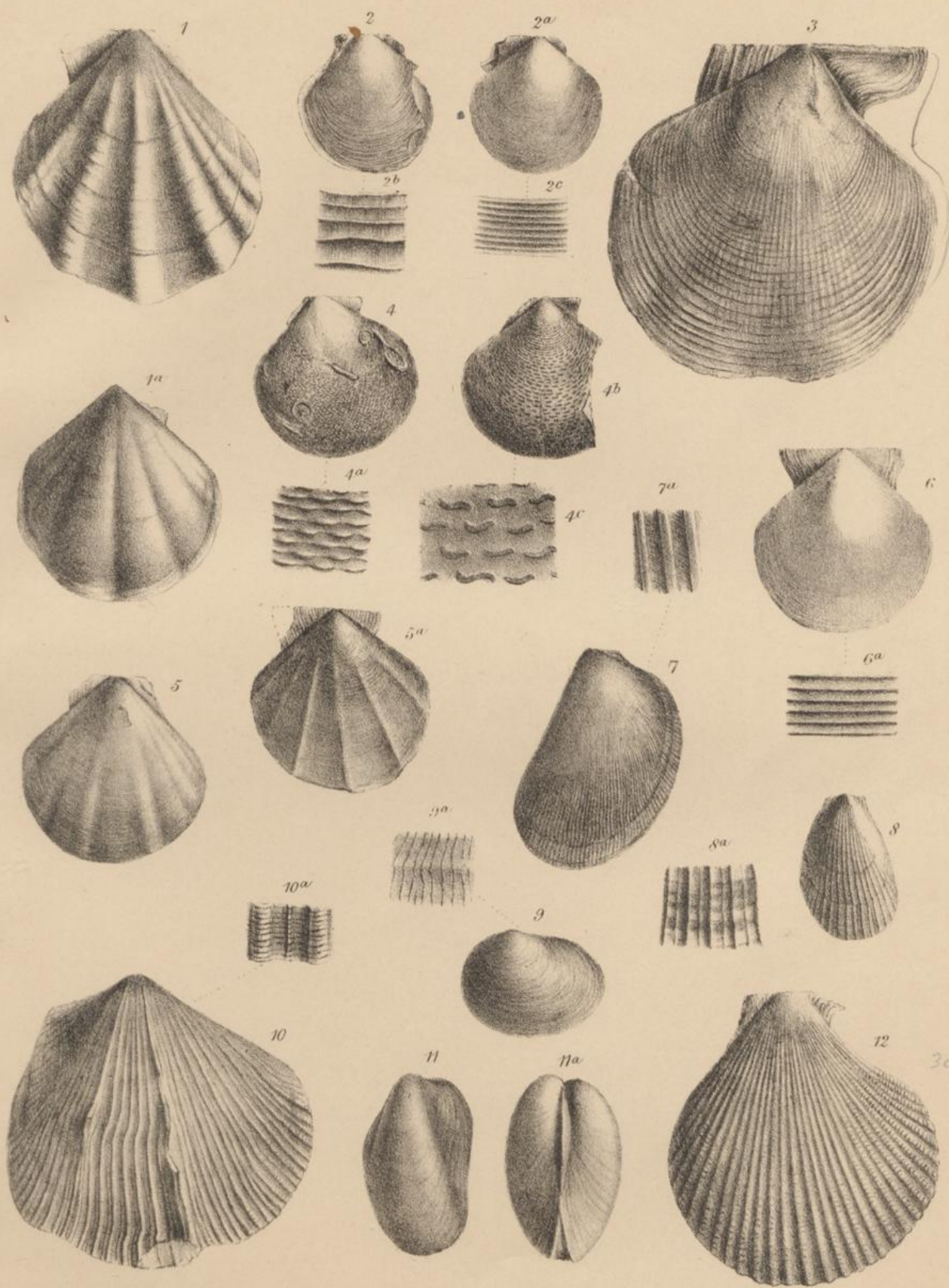
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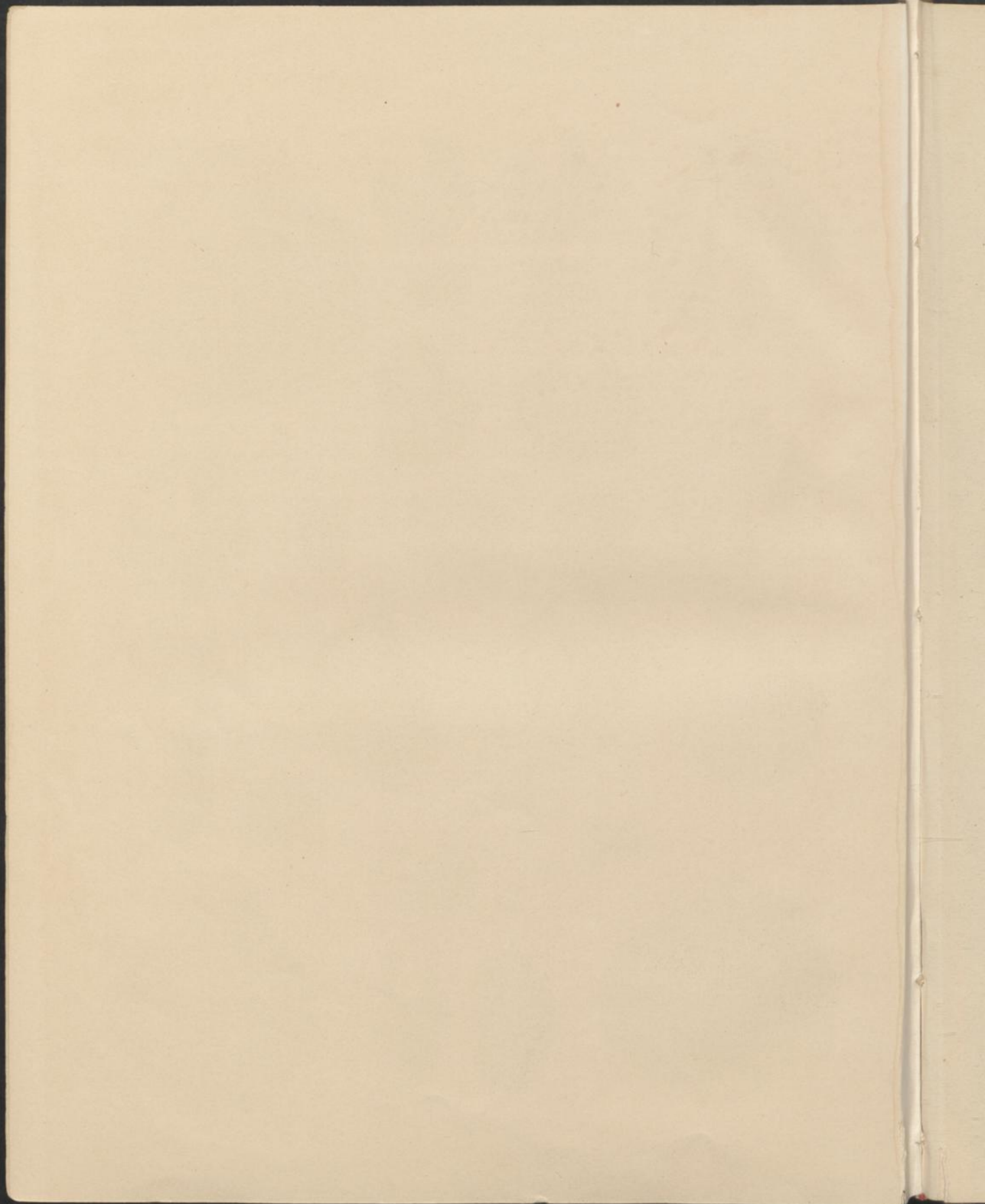


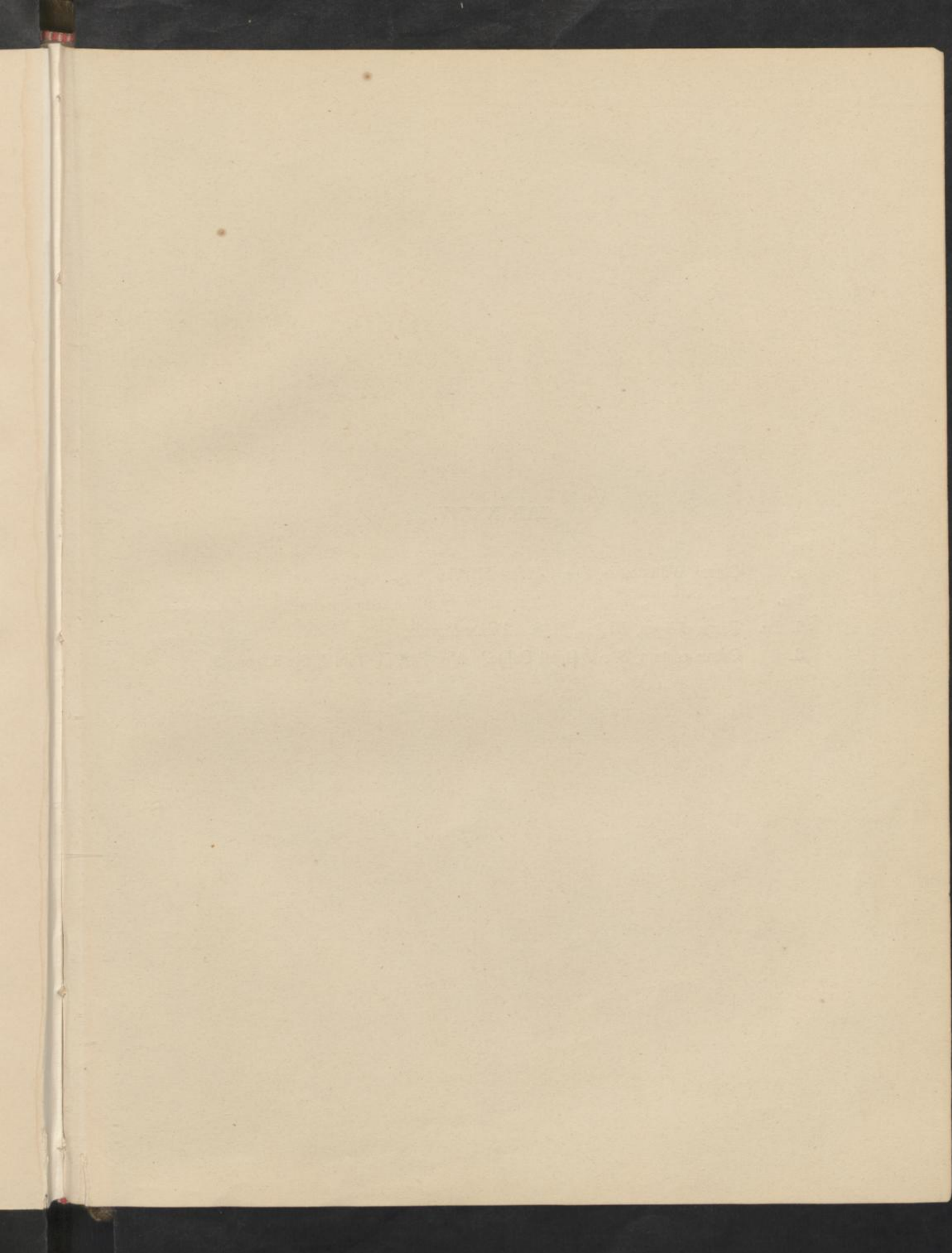


TAB. XXXIII.

- FIG.
- | | | | |
|-----------|---|---------------------------------------|--|
| 1. | <i>Pecten inæquicostatus</i> , <i>Phil.</i> | Left valve. | Cornbrash (page 32). |
| 1 a. | " " | Right valve. | |
| 2. | <i>Pecten Wollastonensis</i> , <i>Lyc.</i> | Great Oolite (page 33). | Right valve. |
| 2 b. | " " | Magnified surface of the right valve. | |
| 2 a. | " " | Left valve. | |
| 2 c. | " " | Magnified surface of the left valve. | |
| 3. | " <i>Michelensis</i> , <i>Buv.</i> | Cornbrash (page 34). | <i>P. cancellatus</i> (<i>Bean</i>) <i>Lyc.</i>
<i>non Buv. mens.</i> |
| 4. | " <i>Rushdenensis</i> , <i>Lyc.</i> | Cornbrash (page 33). | |
| 4 a. | " " | Magnified portion of the right valve. | |
| 4 b. | " " | Left valve. | |
| 4 c. | " " | Magnified portion of the left valve. | |
| 5. | " <i>anisopleurus</i> , <i>Buv.</i> | Right valve. | Cornbrash (page 34). |
| 5 a. | " " | Left valve. | |
| 6. | " <i>Griesbachi</i> , <i>Lyc.</i> | Left valve. | Great Oolite (page 37). |
| 6 a. | " " | Portion of the surface magnified. | |
| 7. | <i>Lima rigidula</i> , <i>Phil.</i> , sp. | Cornbrash (page 42). | |
| 7 a. | " " | Portion of the surface magnified. | |
| 8. | " <i>Helvetica</i> , <i>Oppel.</i> | Cornbrash (page 41). | |
| 8 a. | " " | Portion of the surface magnified. | |
| 9. | <i>Placunopsis semistriatus</i> , <i>Bean</i> , sp. | Cornbrash (page 30). | |
| 9 a. | " " | Portion magnified. | |
| 10. | <i>Hinnites gradus</i> , <i>Bean</i> , sp. | Cornbrash (page 35). | ! |
| 10 a. | " " | Portion magnified. | |
| 11, 11 a. | <i>Modiola gibbosa</i> , <i>Sow.</i> | Cornbrash (page 42). | ? <i>M. (Mod.) subgibbosa</i> <i>Orb.</i> 1847, p. 927. |
| 12. | <i>Pecten articulatus</i> , <i>Schloth.</i> | Cornbrash (page 34). | 2/ <i>P. (Chl.) Lycetti</i> <i>Roll.</i> |



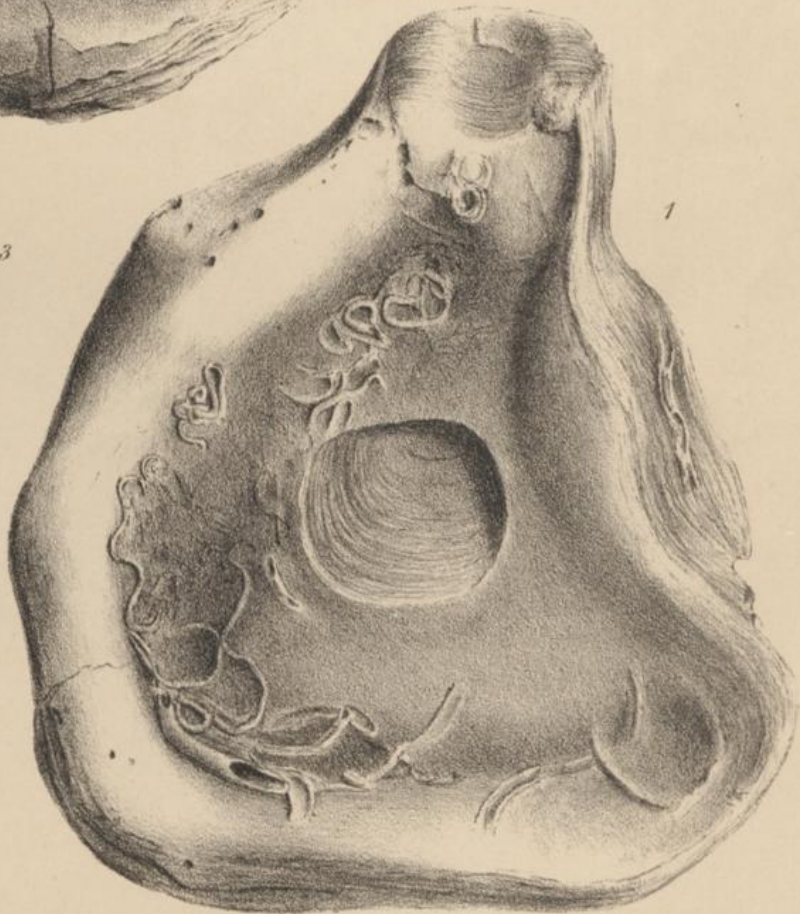
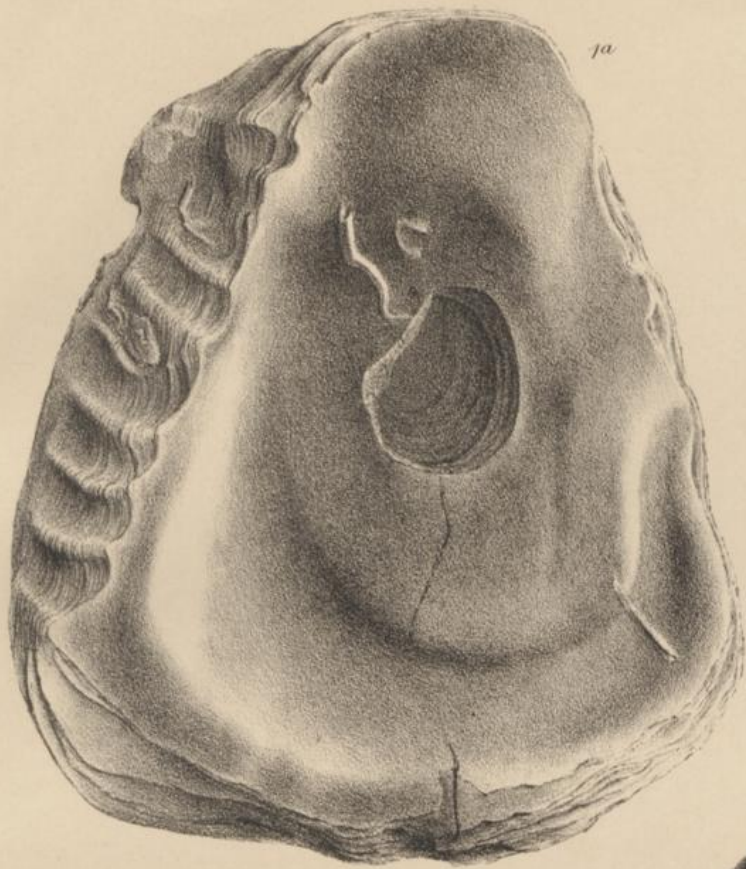


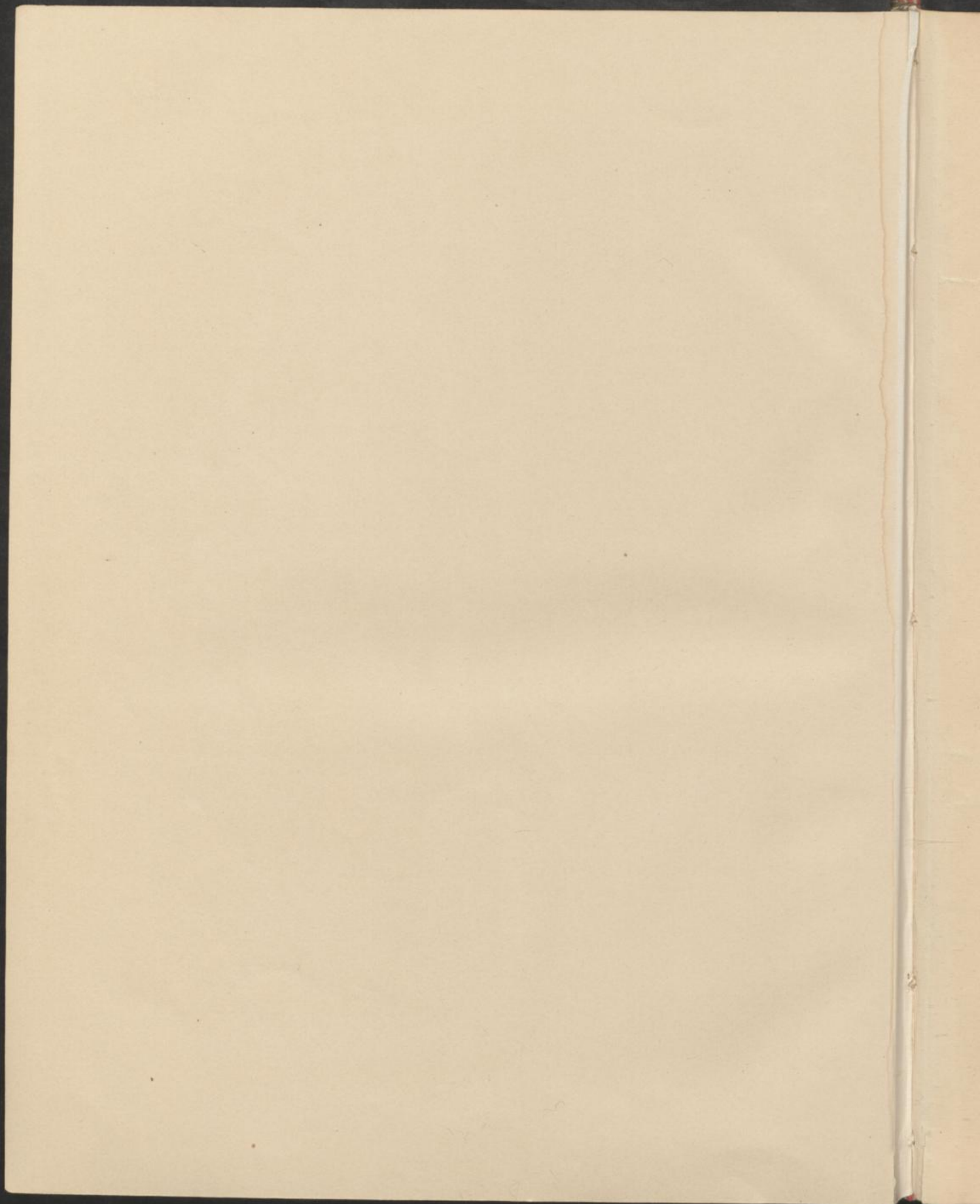


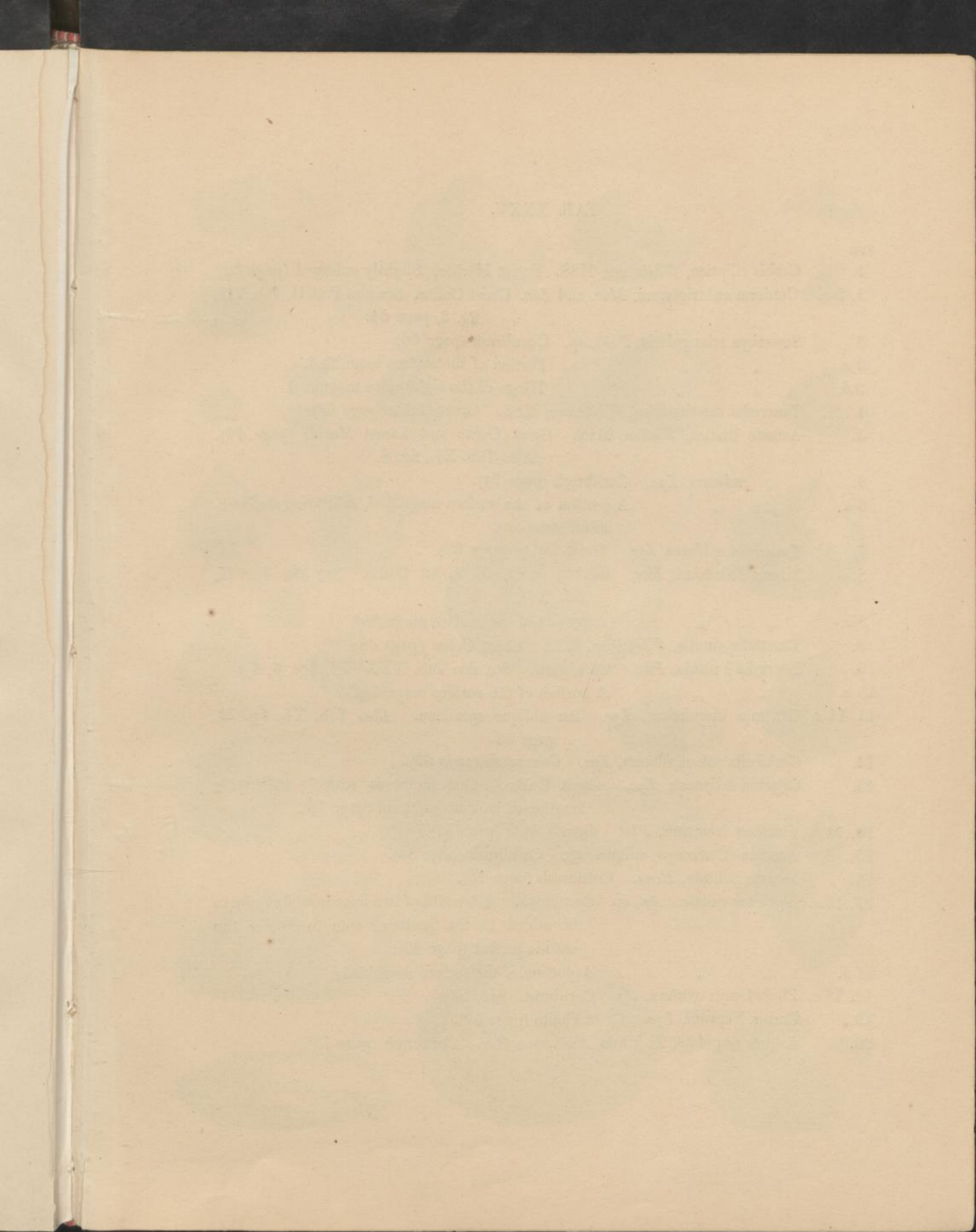
TAB. XXXIV.

FIG.

1. Ostrea Wiltonensis, *Lyc.* Forest Marble. *valve sup. / libe*
- 1 a. " " A monstrosity of the same species. *Pernostrea!*
- 2, 2 a. Perna obliqua, *Walton, MSS.* Forest Marble. *(Mytiloperna)*
3. Ostrea costata, *Sow.* Great Oolite. Also Part II, Tab. I, fig. 5, page 3.



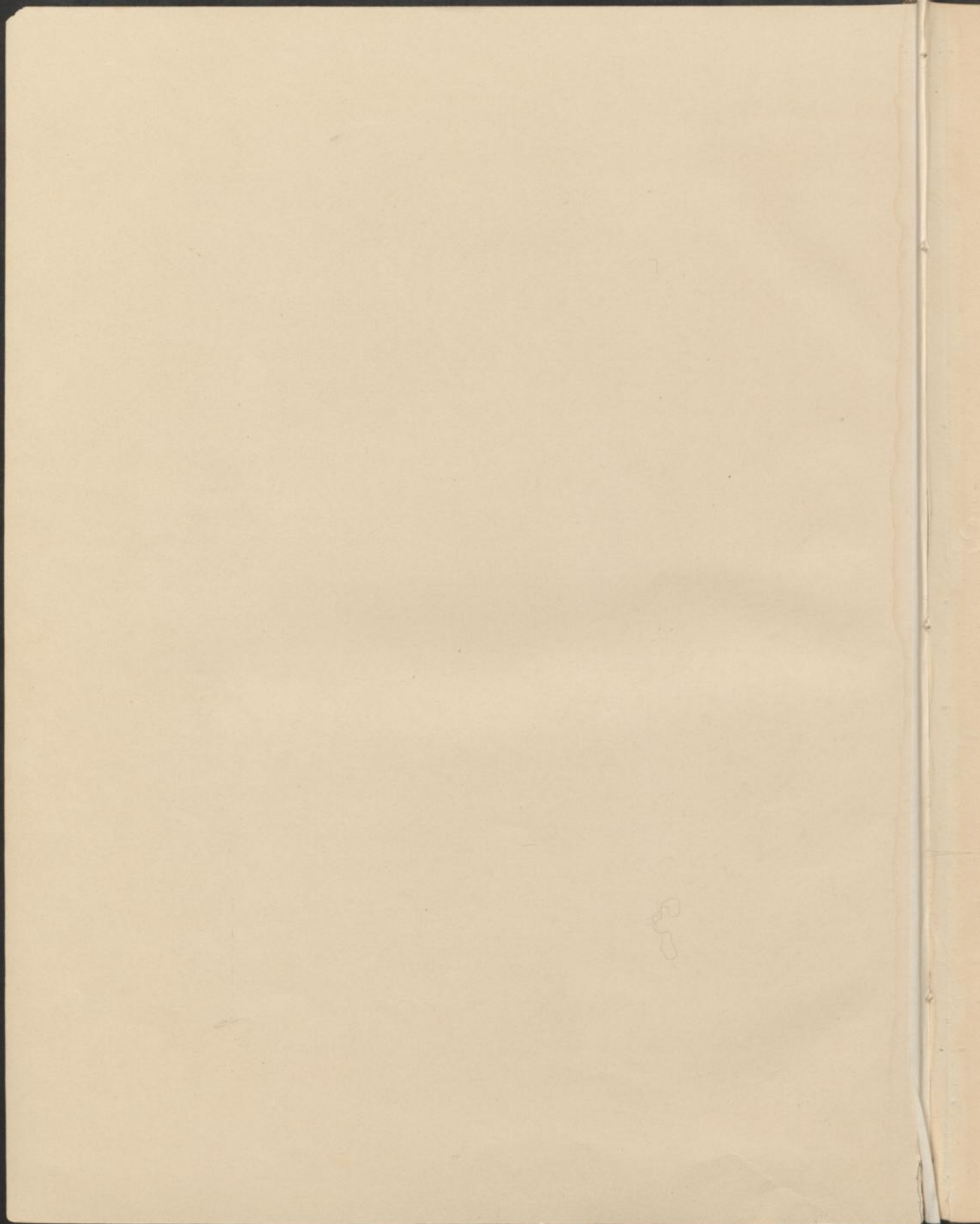


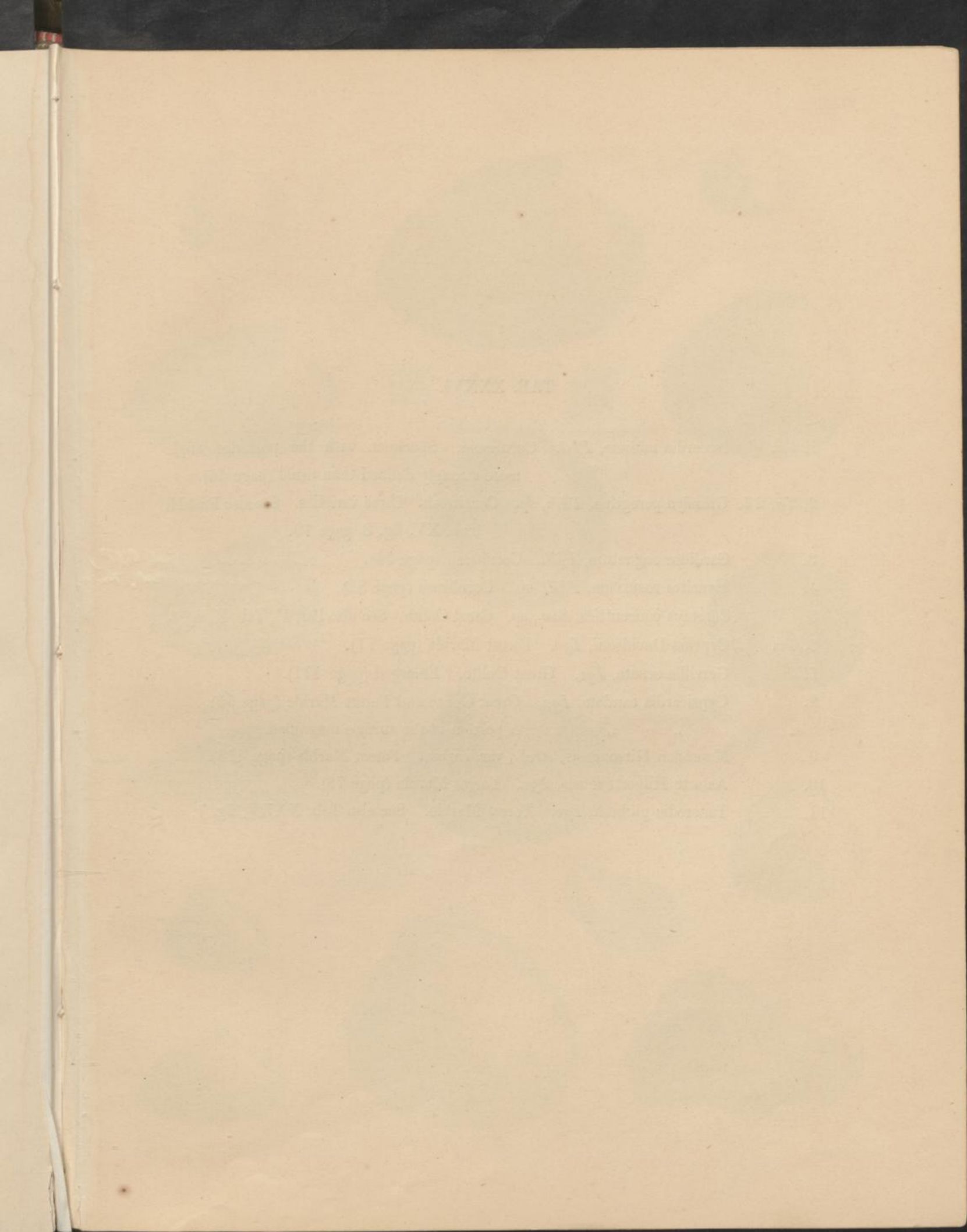


TAB. XXXV.

- FIG.
1. *Corbis elliptica*, *Whiteaves*, MSS. Forest Marble. Slightly enlarged (page 60). (*Corbicula*?)
 - 2, 2 a. *Cardium subtrigonum*, *Mor.* and *Lyc.* Great Oolite. See also Part II, Tab. VII, fig. 3, page 64. *sp. nov. Lycetti Roll. Fourn.*
 3. *Sowerbya triangularis*, *Phil.*, sp. Cornbrash (page 66).
 - 3 a. " " Portion of the surface magnified.
 - 3 b. " " Hinge of the right valve magnified.
 4. *Tancredia mactræoides*, *Whiteaves*, MSS. Great Oolite (page 68).
 5. *Astarte rustica*, *Walton*, MSS. Great Oolite and Forest Marble (page 76).
Also Tab. XL, fig. 8.
 6. " *robusta*, *Lyc.* Cornbrash (page 74).
 - 6 a. " " A portion of the surface magnified, exhibiting the interstitial striations.
 7. *Tancredia gibbosa*, *Lyc.* Great Oolite (page 68).
 8. *Næara Ibbetsoni*, *Mor.* Slightly enlarged. Great Oolite. See also Part II, Tab. XII, fig. 9.
 - 8 a. " " A portion of the surface magnified.
 9. *Tancredia similis*, *Whiteaves*, MSS. Great Oolite (page 68).
 10. *Isocardia?* *nitida*, *Phil.* Cornbrash. See also Tab. XXXVIII, figs. 6, 6 a.
 - 10 a. " " A portion of the surface magnified.
 - 11, 11 a. *Cardium lingulatum*, *Lyc.* An oblique specimen. Also Tab. XL, fig. 22, page 53.
 12. *Corbicella subæquilatera*, *Lyc.* Cornbrash (page 69).
 13. *Cyprina Islipensis*, *Lyc.* Great Oolite. Our figure is scarcely sufficiently lengthened and inequilateral (*Venilicardia* page 70).
 - 14, 14 a. *Cardium incertum*, *Phil.* Great Oolite (page 53). *C. (Indegricard) Morrisi* *Roll. i. p. Lyc. 1867.*
 15. *Anatina* (*Cercomya*) *siliqua*, *Ag.* Cornbrash (page 83). *sp. nov.*
 16. *Astarte politula*, *Bean.* Cornbrash (page 73). *Scarab. Trocypina*
 - 17, 17 a. *Myacites sinistra*, *Ag.*, sp. Cornbrash. A breadth of two lines would require to be added to the posterior side to render the outline perfect (page 82). *sp. Myacites polonium 1867. Balin*
 - 17 b. " " A portion of the surface magnified. *Fl. gracilis*
 - 18, 18 a. *Pholadomya ovulum*, *Ag.* Cornbrash (page 84). ??
 19. *Corbis Neptuni*, *Lyc.* Great Oolite (page 59). (*Corbicula*)
 20. *Astarte ungulata*, *A. lurida*, *Phil.*, non *Sow.* Cornbrash (page 72).







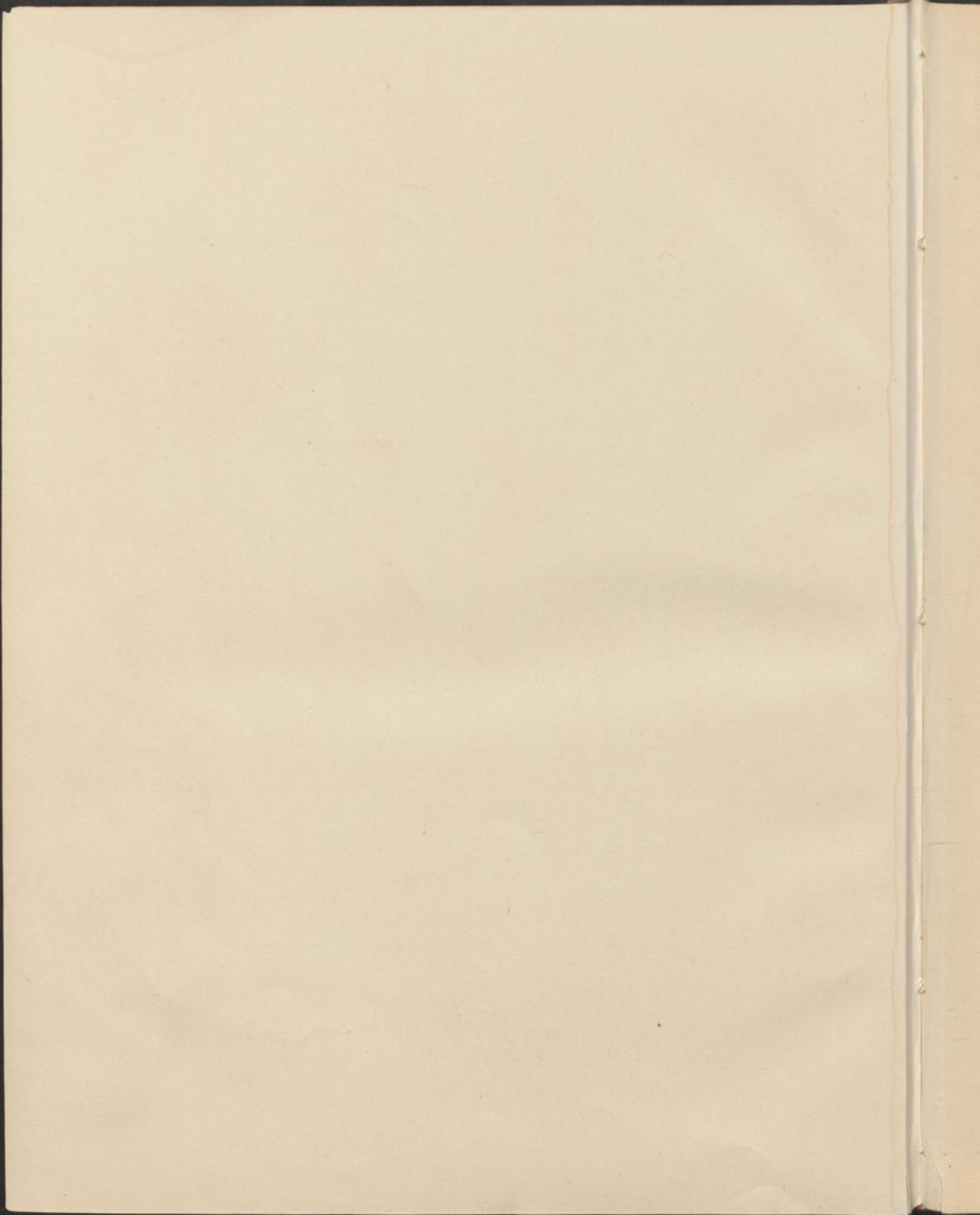
TAB. XXXVI.

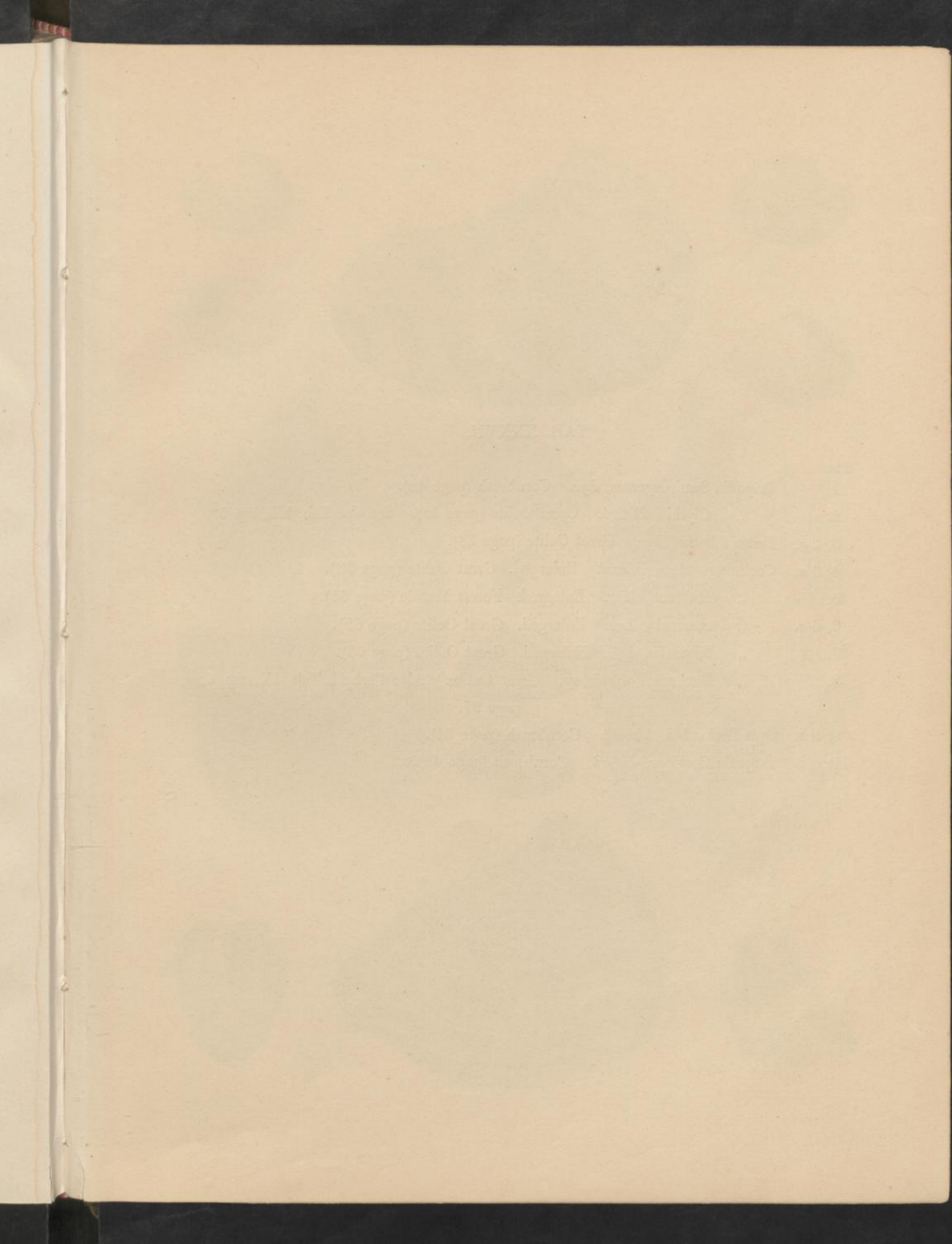
- FIG. *Anisoc. Scarboroughensis* Roll. (Lyc. 1913) (on *Venilicardia*?)
- 1, 1 a. *Isocardia minima*, Phil. Cornbrash. Specimen with the posterior angle more strongly defined than usual (page 56).
- 2, 2 a, 2 b. *Gresslya peregrina*, Phil., sp. Cornbrash. Three varieties. See also Part II, Tab. XV, fig. 8, page 79.
3. *Cardium cognatum*, Phil. Cornbrash (page 54). (*Protocard.*); prob. C. (P.)
4. *Myacites recurvum*, Phil., sp. Cornbrash (page 81). *Mattreyi* Roll, *Ten.*
5. *Ceromya concentrica*, Sow., sp. Great Oolite. See also Part II, Tab. X, fig. 3.
- 6, 6 a. *Cyprina Davidsoni*, Lyc. Forest Marble (page 71). *Venilicardia*
7. *Gervillia ornata*, Lyc. Great Oolite. Enlarged (page 111).
8. *Cypricardia caudata*, Lyc. ^{Cornbrash} Great Oolite and Forest Marble (page 55).
- 8 a. ^{? *Plesiocyprina*} " " A portion of the surface magnified.
9. *Macrodon Hirsonensis*, Arch., var. *rugosa*. Forest Marble (page 113). = *Par. (Beust)* *gibbosus* Roll.
10. *Astarte Hilpertonensis*, Lyc. Forest Marble (page 78). *n. j. Lyc., Forest Marble*
11. *Tancredia gibbosa*, Lyc. Forest Marble. See also Tab. XXXV, fig. 7.



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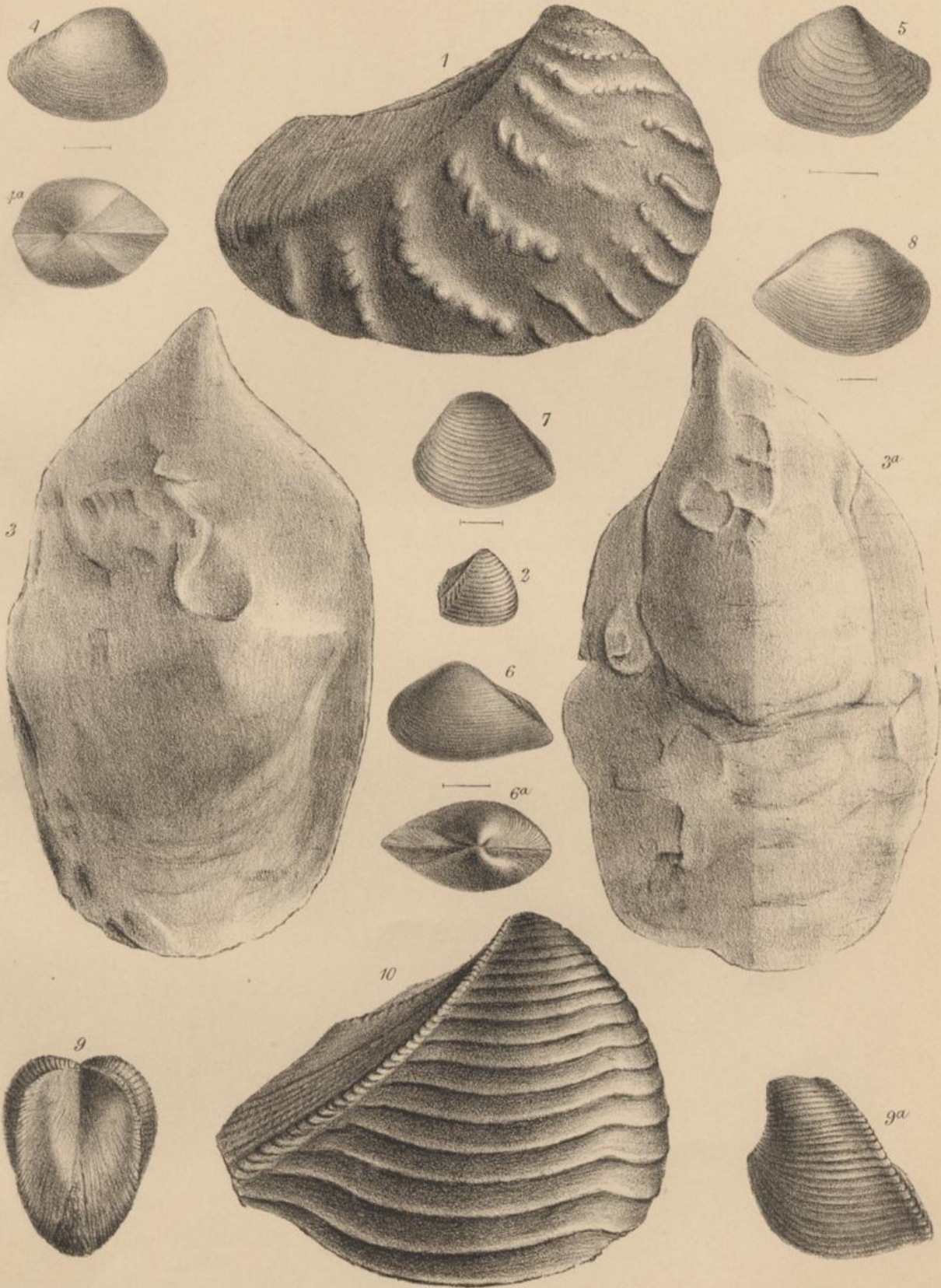


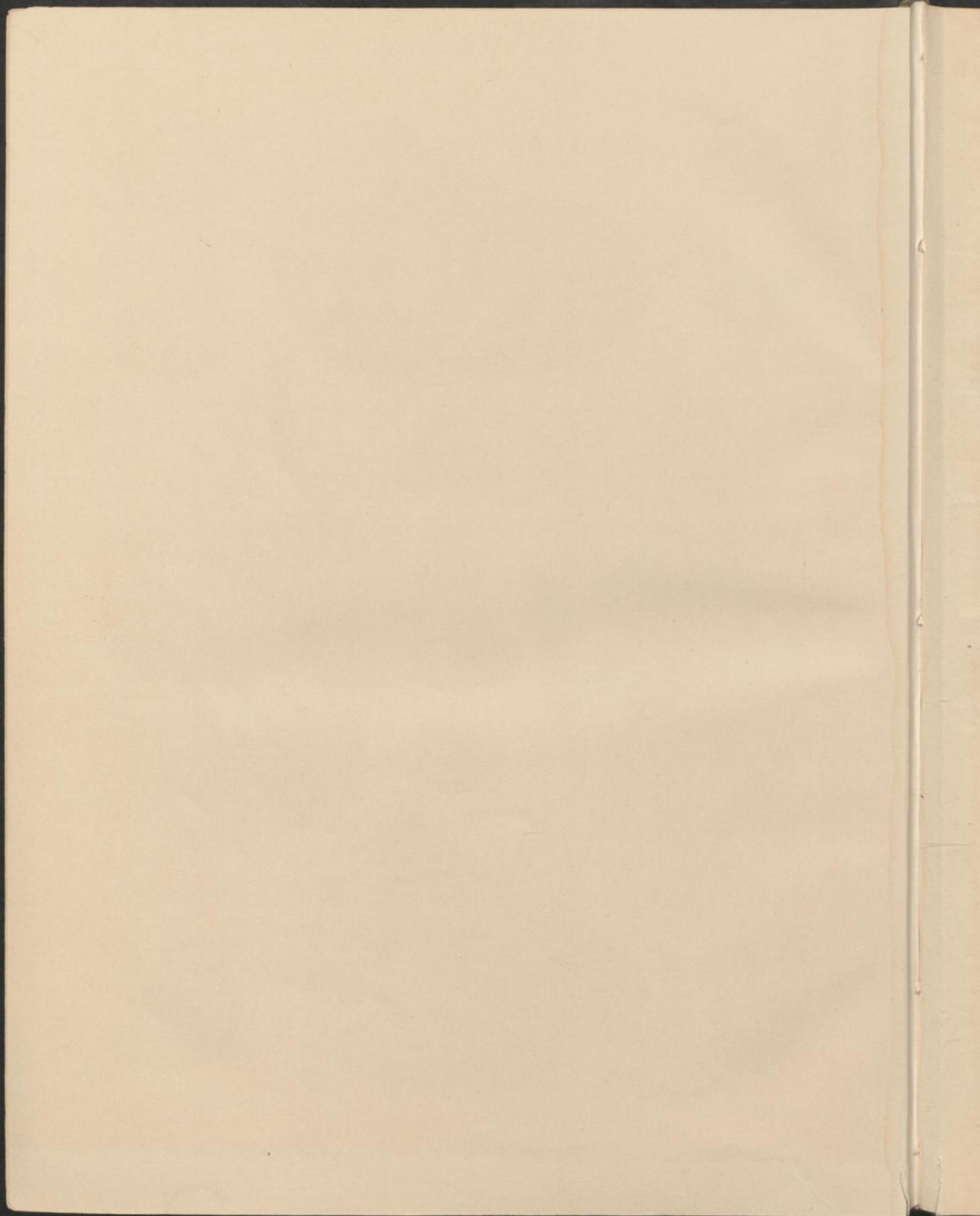


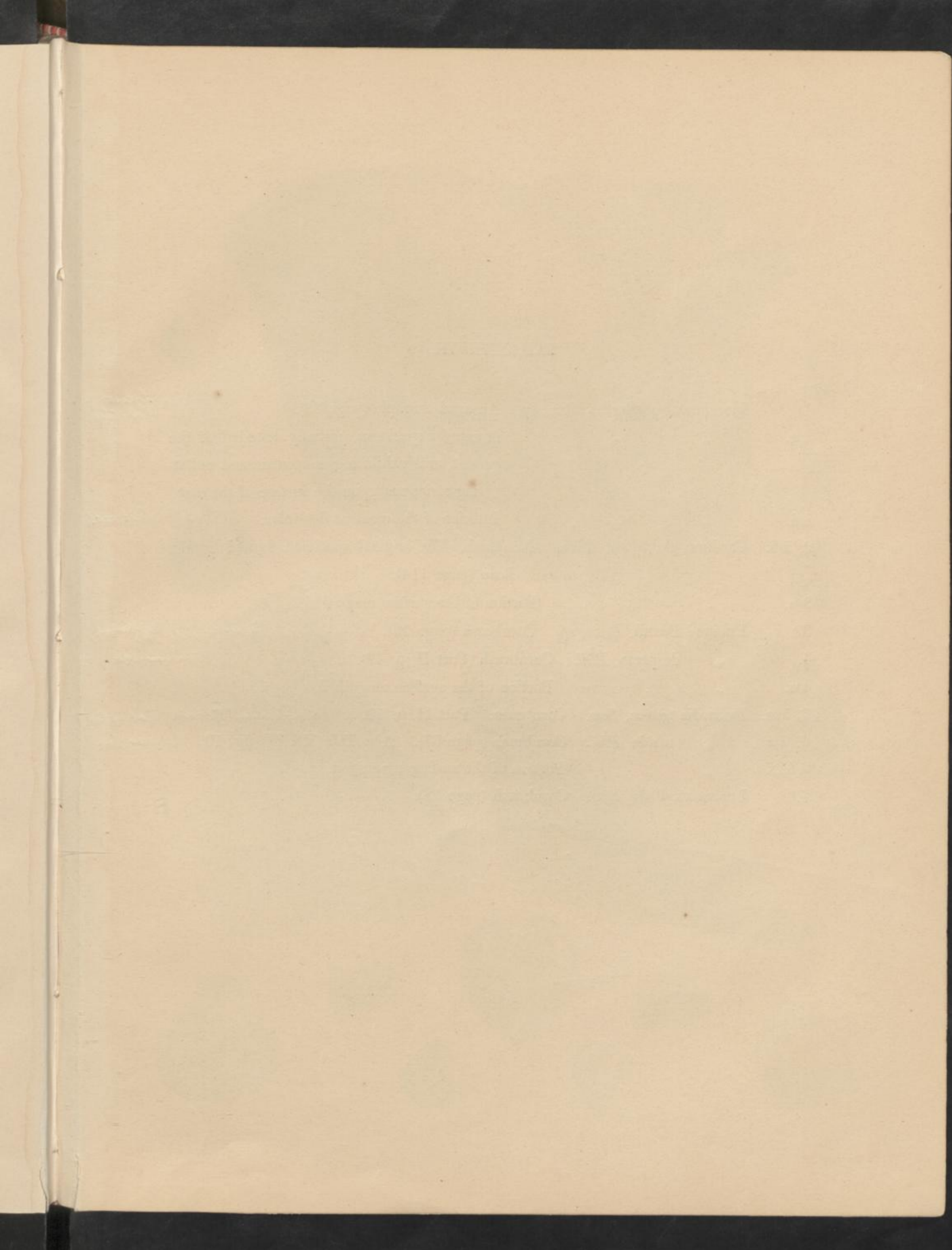
TAB. XXXVII.

FIG.

1. *Trigonia* Scarburgensis, *Lyc.* Cornbrash (page 48).
2. „ *Clythia*, *D' Orb.* Great Oolite (page 48). See also Tab. XL, fig. 5.
- 3, 3 a. *Perna*/foliacea, *Lyc.* Great Oolite (page 38). *(Mytiloperna)*
- 4, 4 a. *Corbula* involuta, *Munst.* Enlarged. Great Oolite (page 63).
5. „ *Hulliana*, *Mor.* Enlarged. Forest Marble (page 64).
- 6, 6 a. „ *attenuata*, *Lyc.* Enlarged. Great Oolite (page 62).
7. „ *Islipensis*, *Lyc.* Enlarged. Great Oolite (page 63).
8. „ *Buckmani*, *Buck.*, sp. Great Oolite. Also Part II, Tab. IX, fig. 6,
page 97.
- 9, 9 a. *Opis* Leckenbyi, *Wright.* Cornbrash (page 61).
10. *Trigonia* Cassiope, *D' Orb.* Cornbrash (page 49).

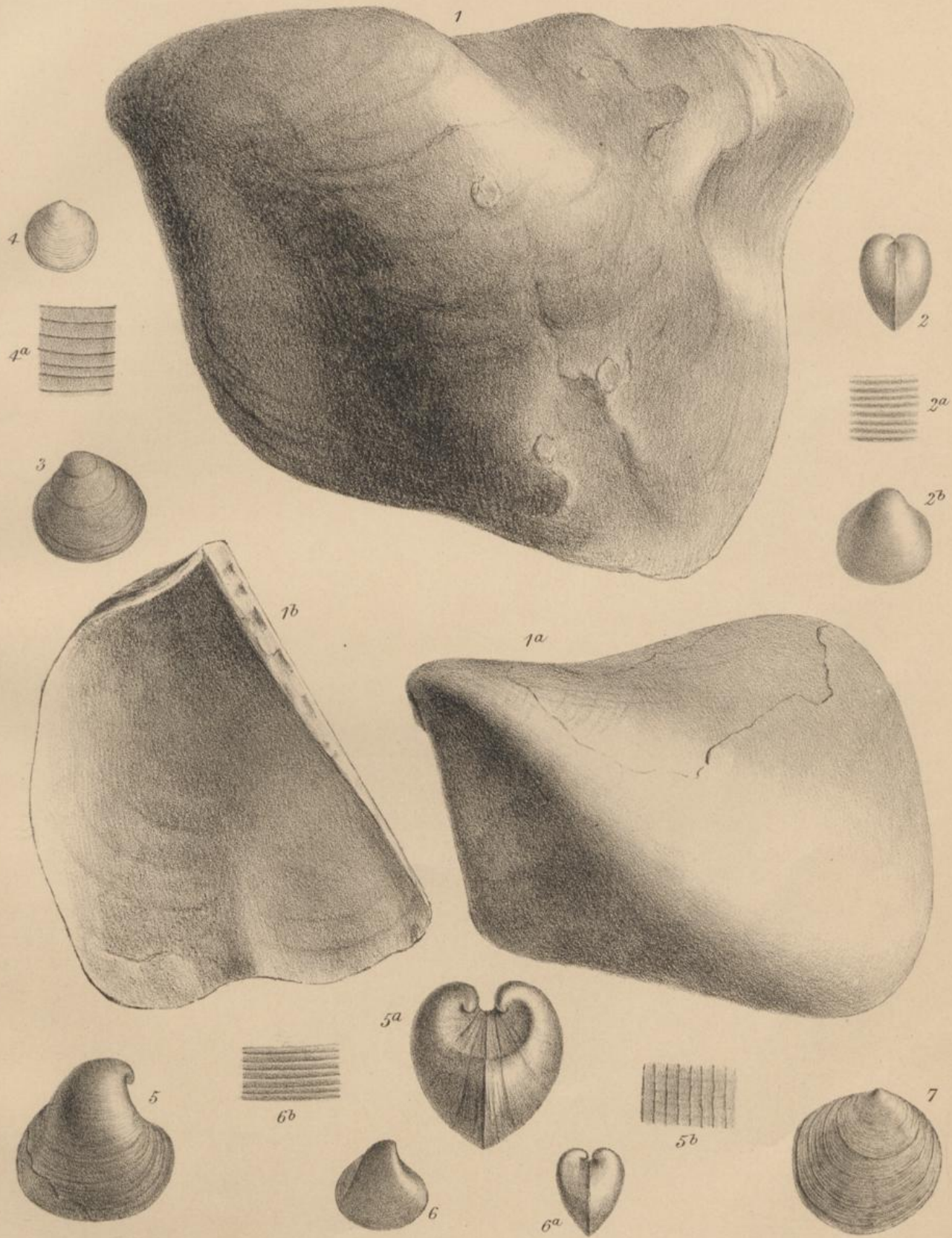




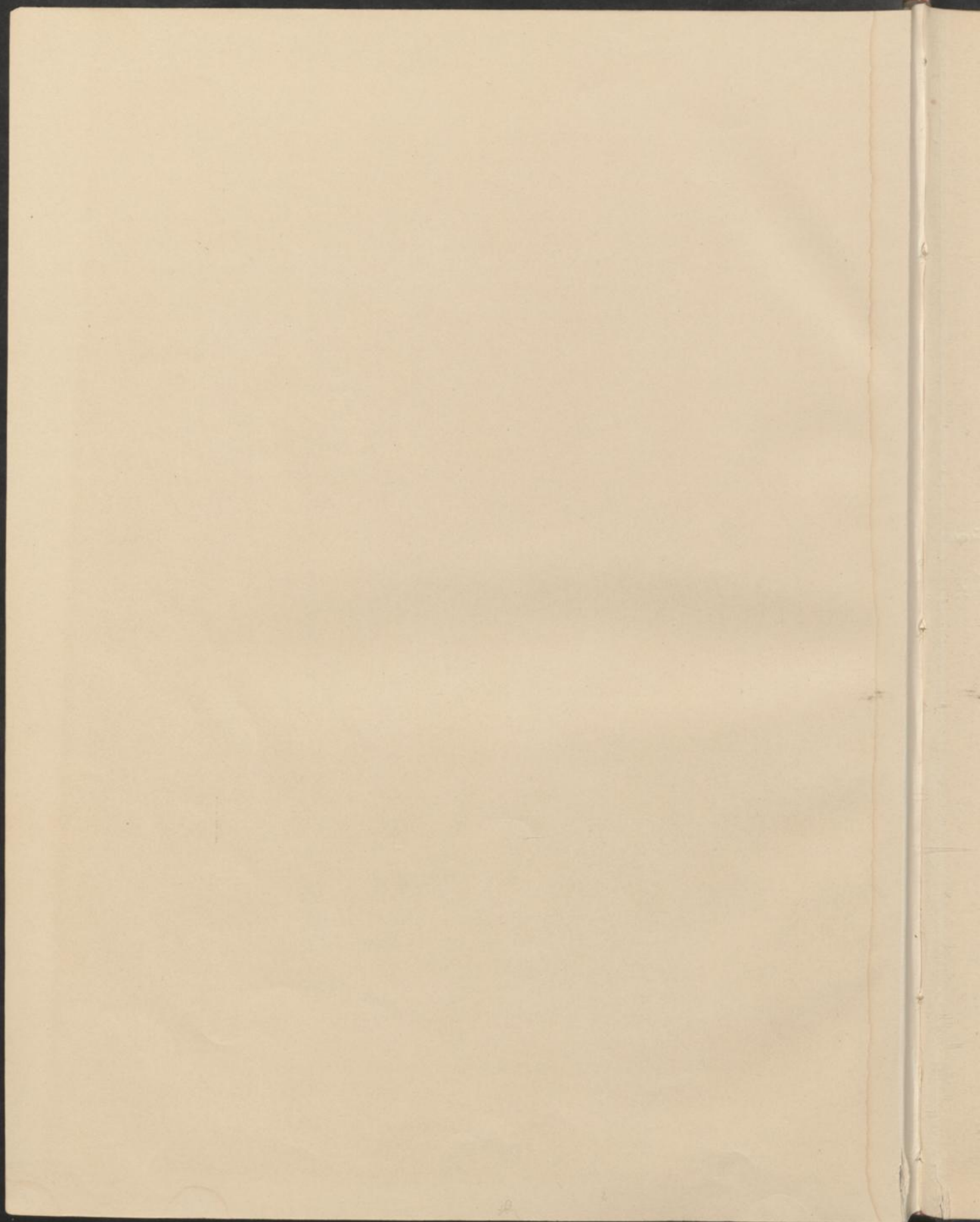


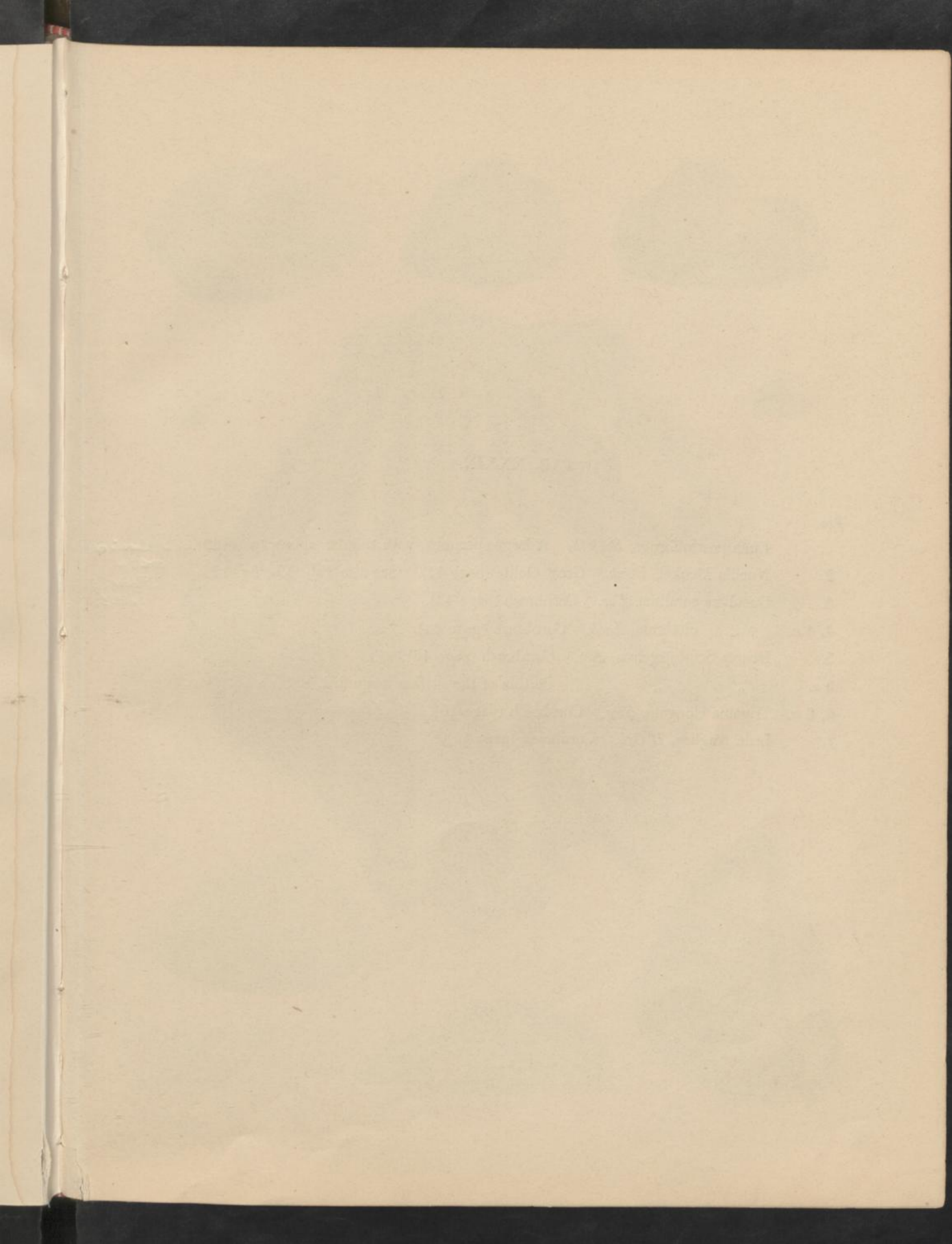
TAB. XXXVIII.

- FIG.
1. *Inoceramus quadratus*, Sow., sp. An aged example (page 38). *Perna Lycetti*
Roll. of Lye.
- 1 a. " " A smaller specimen, partially denuded of the
test, and exhibiting concentric and radiat-
ing striations upon the surface of the cast.
- 1 b. " " Interior of the right or flat valve. *Inj. Col. 6. Hailsworth*
- 2, 2 b. *Cardium globosum*, Bean. Cornbrash. The original specimen figured by Mr.
Bean (page 114).
- 2 a. " " Portion of the surface magnified.
3. *Lucina*? *Beanii*, ^{*Lycetti*} *Bean*, sp. Cornbrash (page 59). *Isocyprina Beanii Lye. (Lucina?)*
4. " *despecta*, Phil. Cornbrash (Part II, p. 69). *J. Patiani Roll. Forum 1813*
- 4 a. " " Portion of the surface magnified.
- 5, 5 a. *Isocardia tenera*, Sow. Cornbrash. Part II, p. 57. *Isocardia Lycetti Roll. of Lye*
- Anisocardia* 6, 6 a. " *nitida*, Phil. Cornbrash (page 57). Also Tab. XXXV, fig. 10. *tenera* Sow
- 6 b. " " Portion of the surface magnified.
7. *Lucina striatula*, Buv. Cornbrash (page 58). *sp. nov!*



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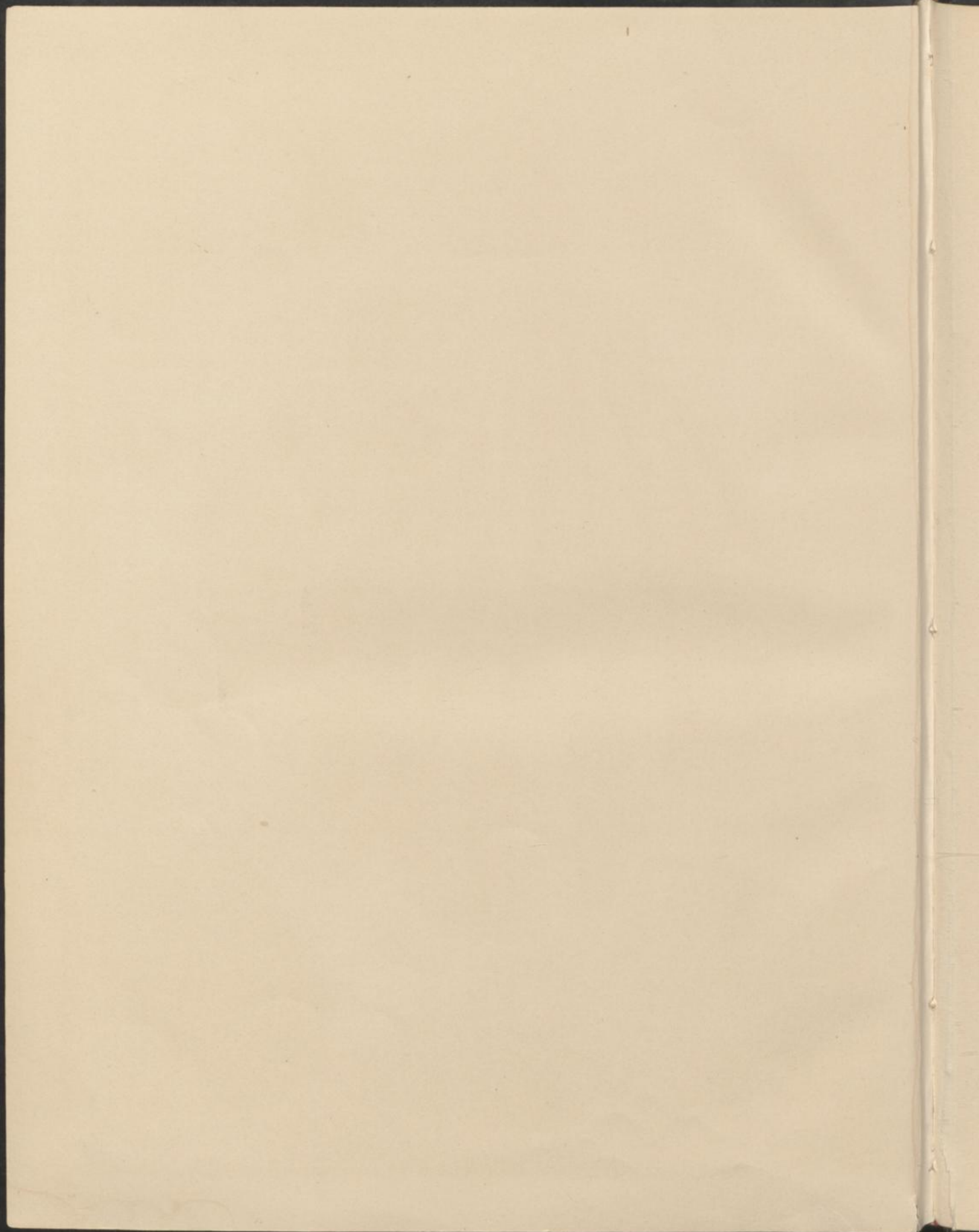
TAB. XXXIX.

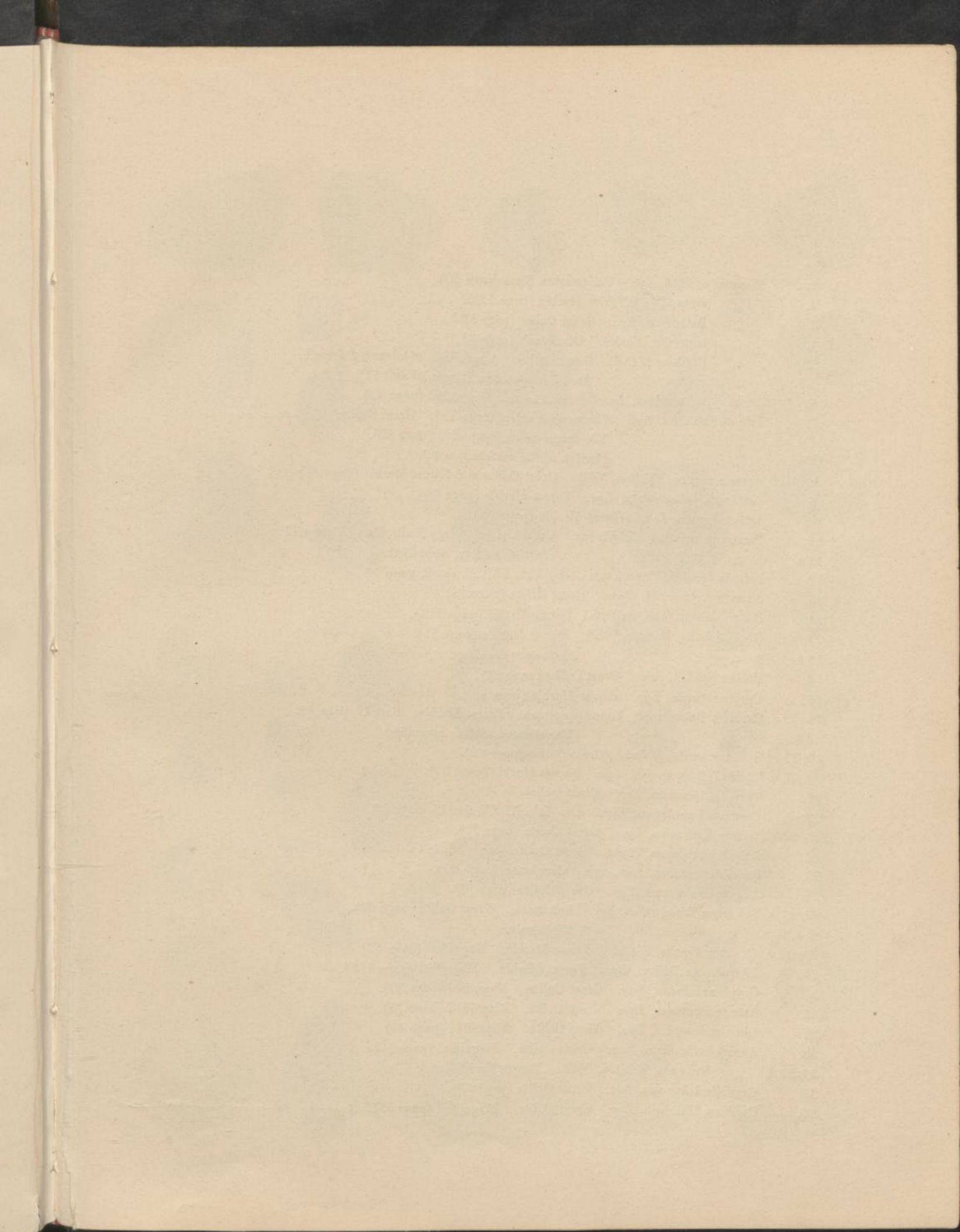
FIG.

1. *Lima pectiniformis*, *Schloth.* A large specimen, with tubular spines (page 39). = *C. Lucianse*
2. *Nucula Menkei*, *Roem.* Great Oolite (page 44). See also Tab. XL, fig. 12. *Orb. sp.*
3. *Cucullæa corallina*, *Lyc.* ^(non *Damon*) Cornbrash (page 43). = *C. Laubei* *Roll. a. p. Laube* *Fig. I* *p. 313.*
- 4, 4 a. „ *clathrata*, *Leck.* Cornbrash (page 44).
5. *Isoarca Scarburgensis*, *Lyc.* Cornbrash (page 45).
- 5 a. „ „ Portion of the surface magnified.
- 6, 6 a. *Trigonia elongata*, *Sow.* Cornbrash (page 46). *F. P. Oberti* *Boyer*
7. *Leda Anglica*, *D'Orb.* Cornbrash (page 45).



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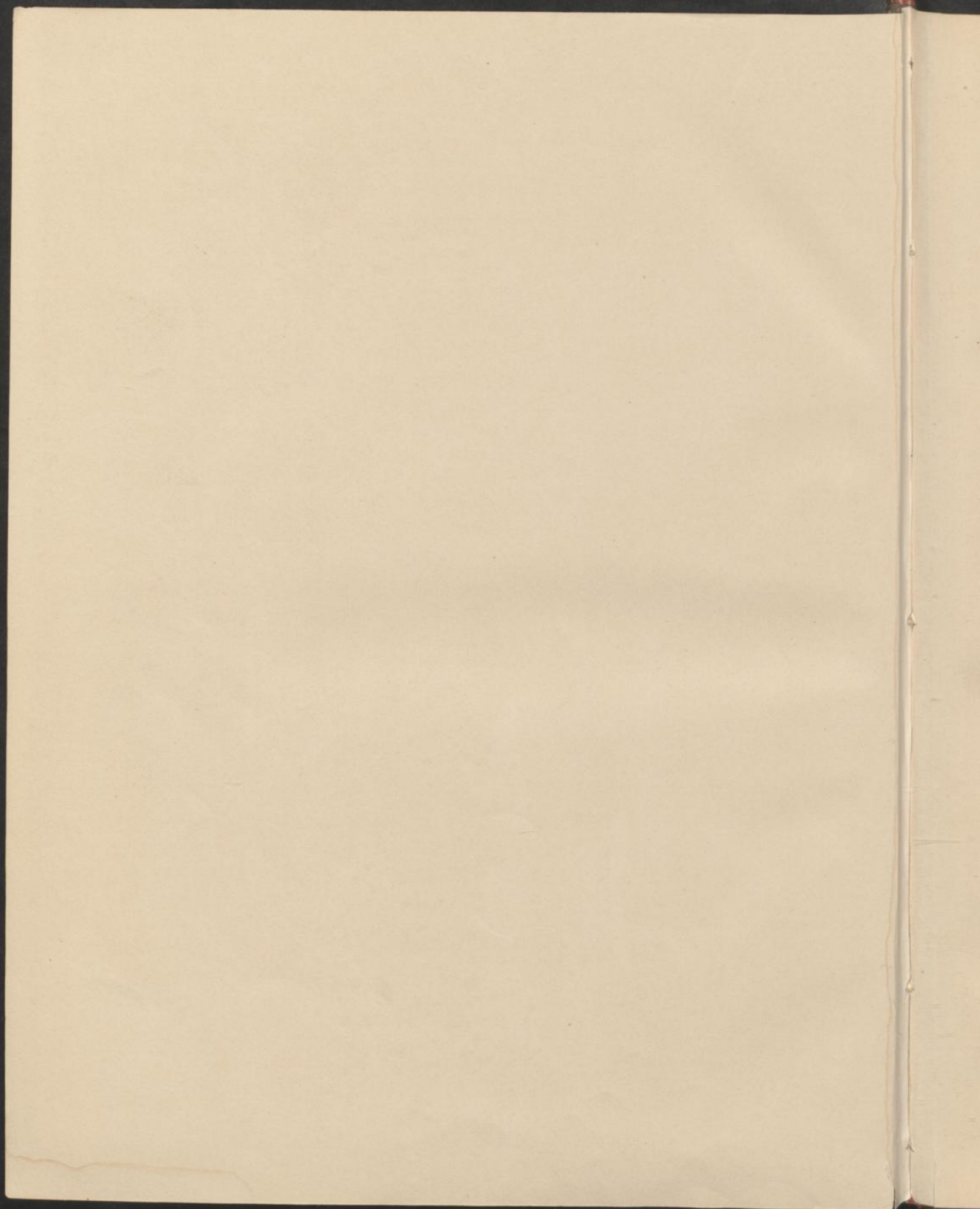


TAB. XL.

FIG.

1. *Trigonia compta*, *Lyc.* Collyweston Slate (page 50).
2. " *arata*, *Lyc.* Forest Marble (page 52).
3. " *Bathonica*, *Lyc.* Great Oolite (page 52.)
4. " *tripartita*, *Forbes.* Cornbrash (page 51.)
5. " *Clythia*, *D'Orb.* Great Oolite. A specimen of advanced growth.
- 5 a. " " An adult specimen (pages 48 and 51).
6. " *tuberculosa*, *Lyc.* Great Oolite. Magnified (page 47).
7. *Ayicula clathrata*, *Lyc.* The smaller valve, magnified. Great Oolite. *Pseudomonotis*
- 7 a. " " The larger valve, magnified (page 36).
- 7 b. " " Portion of the surface magnified.
- 8, 8 a. *Astarte rustica*, *Walton*, MSS. Great Oolite and Forest Marble (page 76).
9. *Corbicella subangulata*, *Lyc.* Forest Marble (page 70).
10. *Astarte ignota*, *Lyc.* Forest Marble (page 77).
11. *Pecten personatus*, *Goldf.*, var. Great Oolite. Magnified. Part II, page 11.
- 11 a. " " Another variety, magnified.
12. *Nucula Menkei*, *Roem.*, var. Also Tab. XXXIX, fig. 2, page 44.
13. *Astarte Aytonensis*, *Bean.* Great Oolite (page 78).
14. *Pecten subspinosus*, *Schloth.* Forest Marble (page 113).
15. *Cyprina bella*, *Walton*, MSS. Forest Marble (page 71). *Venilicardia*
- 15 a. " " A shorter specimen.
16. *Pecten rigidus*, *Sow.* Great Oolite (page 31).
17. *Corbis rotunda*, *Lyc.* Forest Marble (page 60). [*Sphaeriola*] non *D'Orb.* = C.S. *Mundidi* or *Archi* (C.S.)
- 18, 18 a. *Cardium Buckmani*. Young specimen. Forest Marble. Part II, page 64.
- 18 b. " " The striated surface magnified.
- 19, 19 a. *Opis Luciensis*, *D'Orb.* Great Oolite (page 62).
- 20, 20 a. *Lucina?* *Burtonensis*, *Lyc.* Forest Marble (page 59). *Lucycyprina*
21. *Gervillia bicostata*, *Lyc.* Great Oolite.
22. *Cardium lingulatum*, *Lyc.* Also Tab. XXXV, fig. 11, page 53.
- 23, 23 a. *Astarte Bathonica*, *Lyc.* Great Oolite (page 76).
24. *Ayicula subcostata*, *Roem.* Great Oolite (pages 36, 111). - *Roemeri* Roll 14. *Roem.*
25. *Gervillia tortuosa*, *Sow.*, var. Cornbrash (page 37).
26. *Astarte flexicostata*, *Lyc.* Great Oolite (page 79).
- 27, 27 a. *Sowerbya Woodwardi*, *Lyc.* Left valve. Great Oolite (page 67).
- 27 b, 27 c. " " Right valve.
- 28, 28 a. *Corbula Agatha*, *D'Orb.* Forest Marble. Magnified (page 65).
29. *Lithodomus Porteri*, *Lyc.* Forest Marble. Magnified (page 114).
30. *Gryphaea minuta*, *Sow.* Great Oolite. Magnified (page 30).
31. *Astarte Pontonis*, *Lyc.* Great Oolite. Magnified (page 75).
32. *Lima punctatilla*, *Lyc.* Great Oolite. Magnified (page 41).
33. *Astarte orbicularis*, *Sow.* Great Oolite. Magnified (page 73).
- 34, 34 a. " *fimbriata*, *Walton*, MSS. Forest Marble (page 77).
35. *Gervillia Islipensis*, *Lyc.* Great Oolite (page 37).
36. *Cardium Witchelli*, *Lyc.* Great Oolite. Magnified (page 55). *Cardium down* prob!



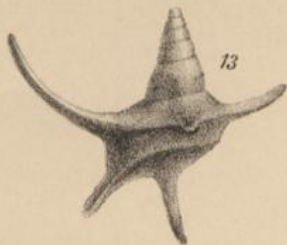
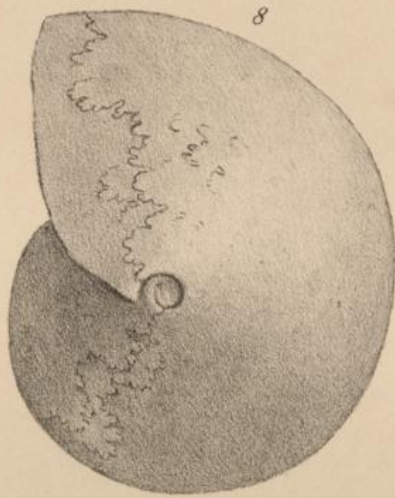


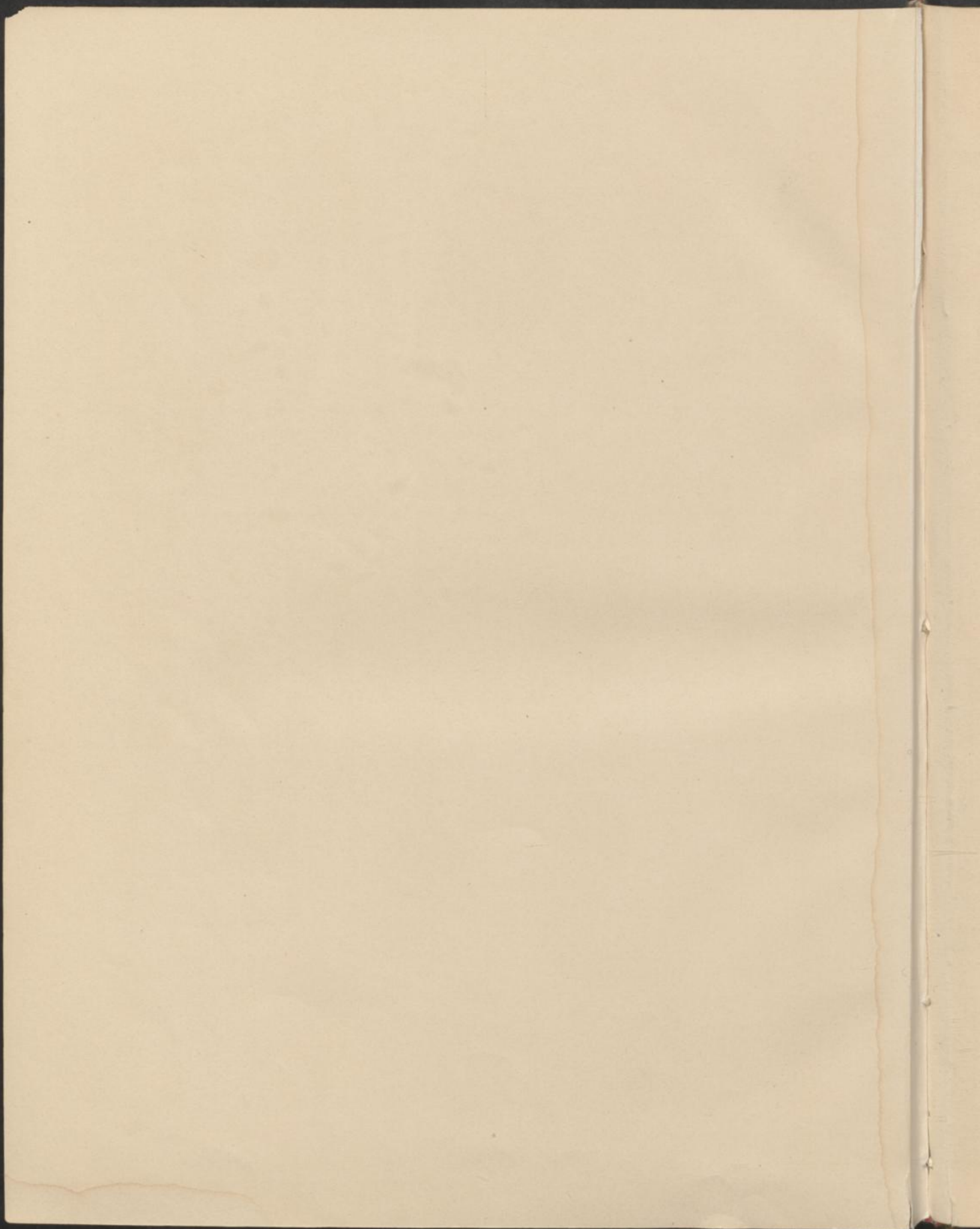
The first part of the paper is devoted to a general discussion of the problem. It is shown that the problem is equivalent to a problem in the theory of differential equations. The second part of the paper is devoted to a detailed study of the problem. It is shown that the problem is solvable in closed form. The third part of the paper is devoted to a study of the properties of the solutions. It is shown that the solutions are unique and stable. The fourth part of the paper is devoted to a study of the asymptotic behavior of the solutions. It is shown that the solutions approach a constant value as $t \rightarrow \infty$. The fifth part of the paper is devoted to a study of the numerical solution of the problem. It is shown that the numerical solution is accurate and stable.

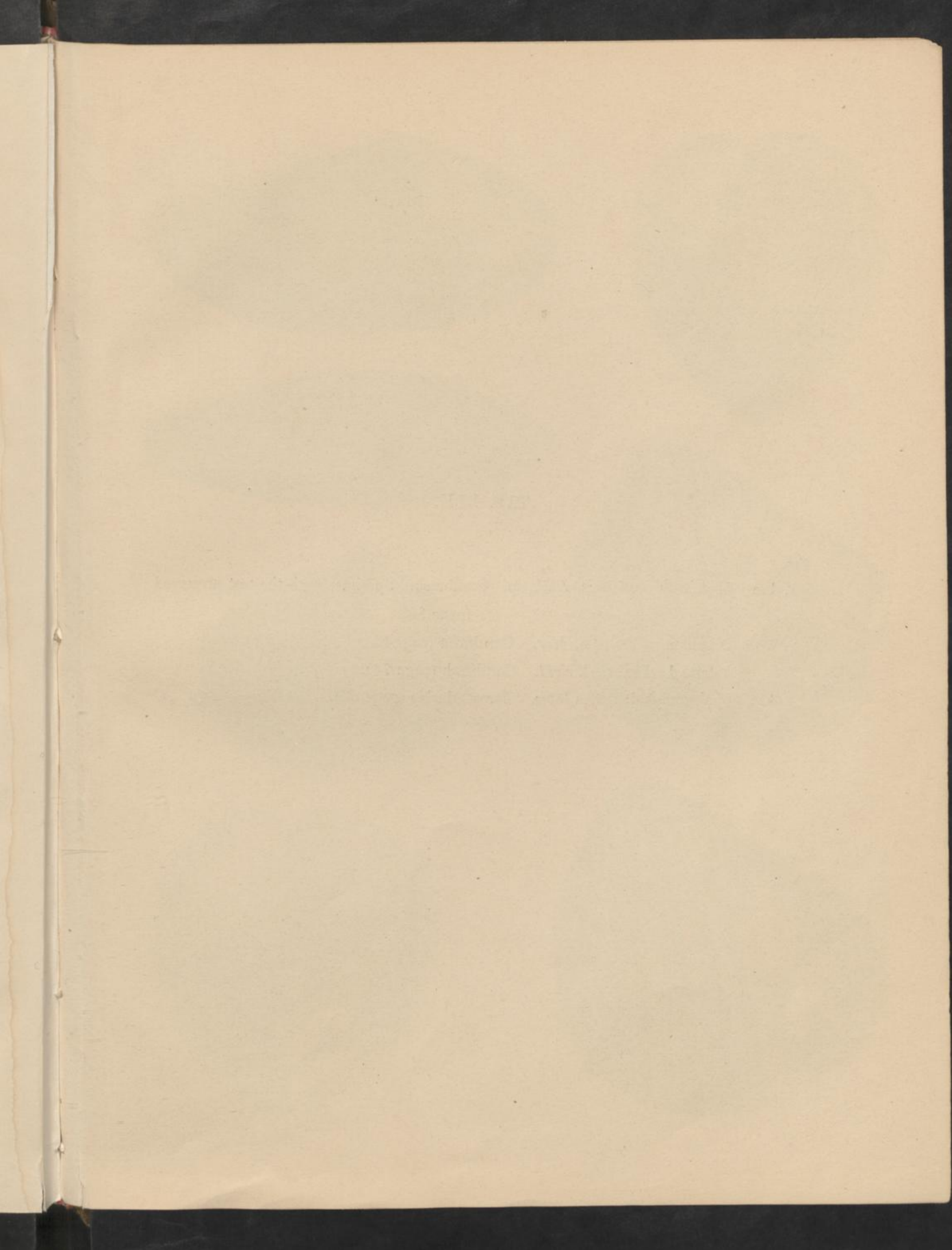
TAB. XLI.

FIG.

1. *Amberleya capitanea*, Goldf., sp. Forest Marble (page 95).
- 2, 2 a. *Natica Hulliana*, Lyc. Great Oolite (page 13).
3. *Amberleya nodosa*. See also Part I, Tab. V, fig. 19. *Type du nouveau genre*
4. *Acteonina olivæformis*. Great Oolite and Forest Marble. See also Part I, Tab. VIII, fig. 14, and fig. 12*.
- 4 a. " " A specimen of more advanced growth, with the spire more produced.
5. " *Kirklingtonensis*, Lyc. Great Oolite (page 26).
6. " *brevis*, Lyc. See also *Cylindritis? brevis*, Part I, Tab. VIII, fig. 13, page 26.
- 7, 7 a. *Nerita Buvignieri*. Examples of two stages of growth. See also *Stomatia Buvignieri*, Part I, Tab. IX, fig. 32. The specimens now figured are from the Forest Marble of Laycock.
- 8, 8 a. *Ammonites discus*, Sow. Forest Marble. Slightly reduced (page 4).
9. *Rissoina subulata*, Lyc. Great Oolite. Enlarged (page 98).
10. *Amberleya monilifera*, Lyc. Forest Marble. Enlarged (page 95).
11. *Cerithium costigerum*, Piette. Variety with flattened volutions and oblique costæ (page 92).
- 11 a. " " A portion of the surface enlarged.
- 11 b. " " Specimen with shorter, more inflated volutions, and perpendicular costæ.
- 11 c. " " A portion of the surface enlarged.
12. *Kilvertia pulchra*, Lyc. Great Oolite and Forest Marble. For the form of the aperture see Tab. XLIV, fig. 4, pages 10 and 94.
12. " " A portion of the surface enlarged.
13. *Alaria myurus*, Desl. See also *Alaria lævigata*, Part I, Tab. III, fig. 3.
14. *Amberleya tricincta*, Lyc. Forest Marble (page 96).
15. *Turbo subtexatus*, Lyc. Forest Marble.
16. *Cerithium? Waltoni*, Lyc. Forest Marble (page 92).
17. " *hemicinctum*, Lyc. Forest Marble. Enlarged (page 91).
- 18, 18 a. *Acteonina Luidii*, Mor. An adult specimen, with the spire moderately elevated. Forest Marble. See also Tab. XXXI, fig. 16, page 27.
- 18 b. " " A specimen with the spire elevated.
- 18 c. " " Specimen with the spire elevated and the last whorl unusually lengthened.



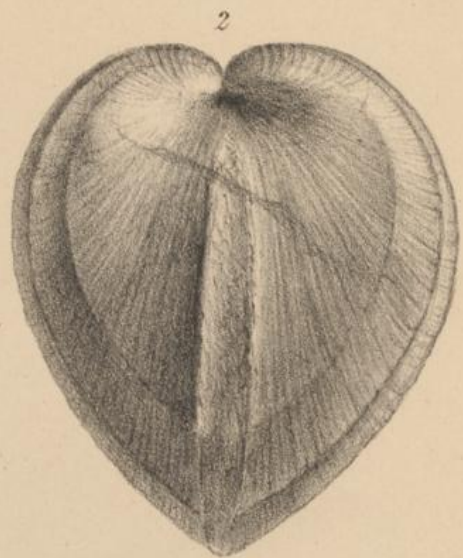


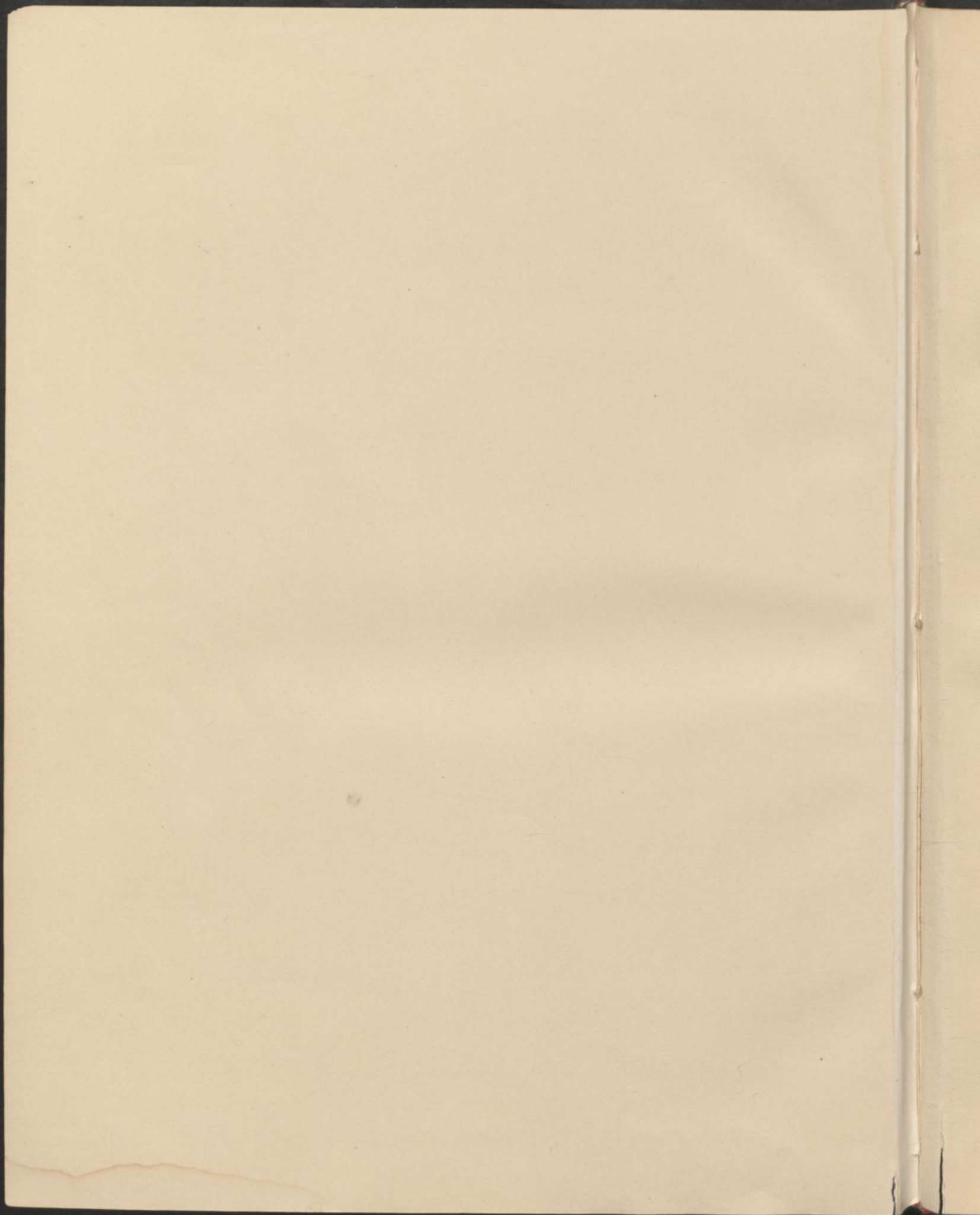


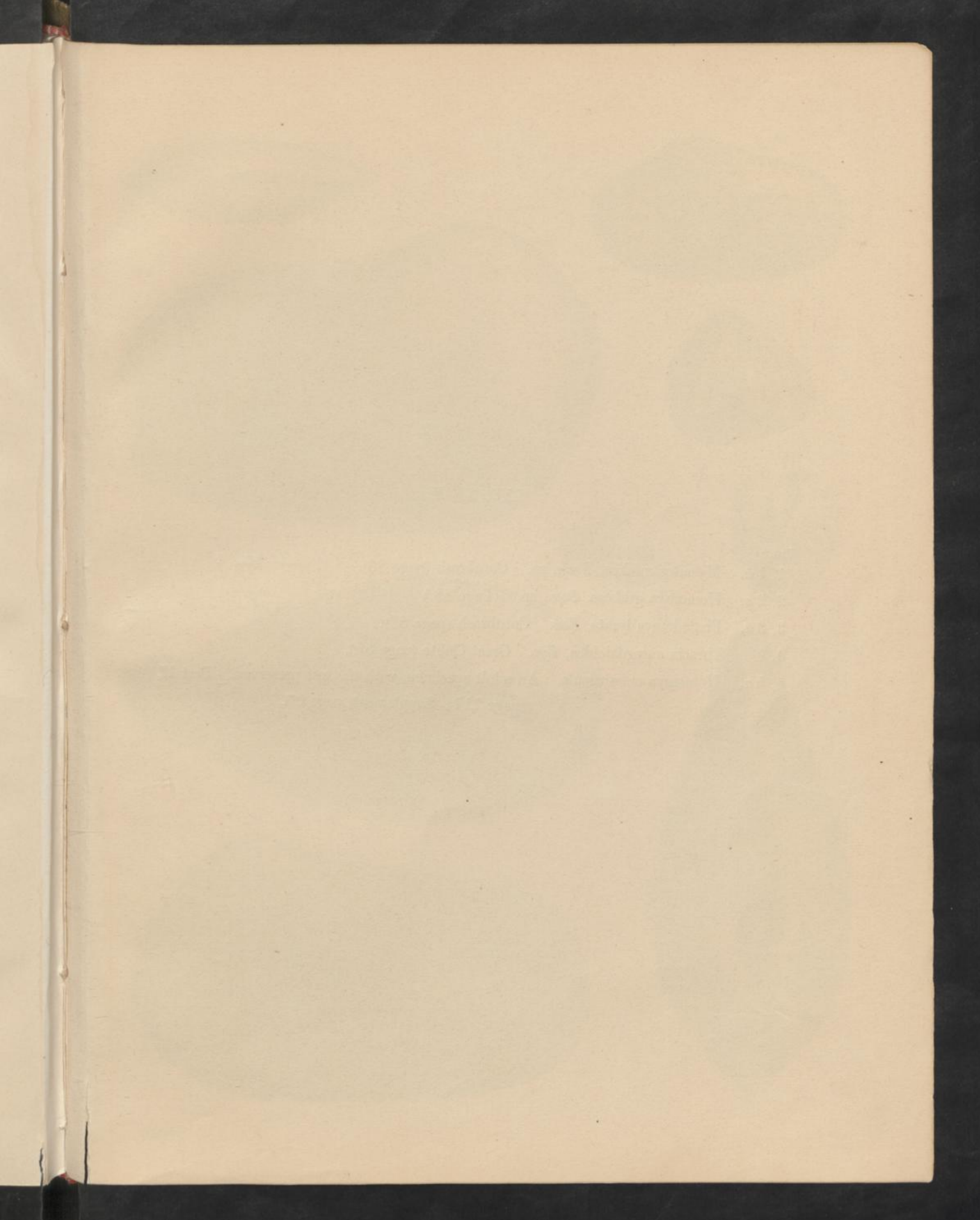
TAB. XLII.

FIG.

- Platymya*
1, 1 a. *Myacites calceiformis*, *Phil.*, sp. Cornbrash. Specimen with the test preserved
(page 80).
2, 2 a. *Pholadomya Phillipsi*, *Mor.* Cornbrash (page 85).
3. *Astarte Leckenbyi*, *Wright.* Cornbrash (page 74).
4, 4 a. *Pholadomya deltoidea*, *Sow.* Forest Marble (page 86). - *cf. deala Ag.*
Cornbrash!







TAB. XLIII.

FIG.

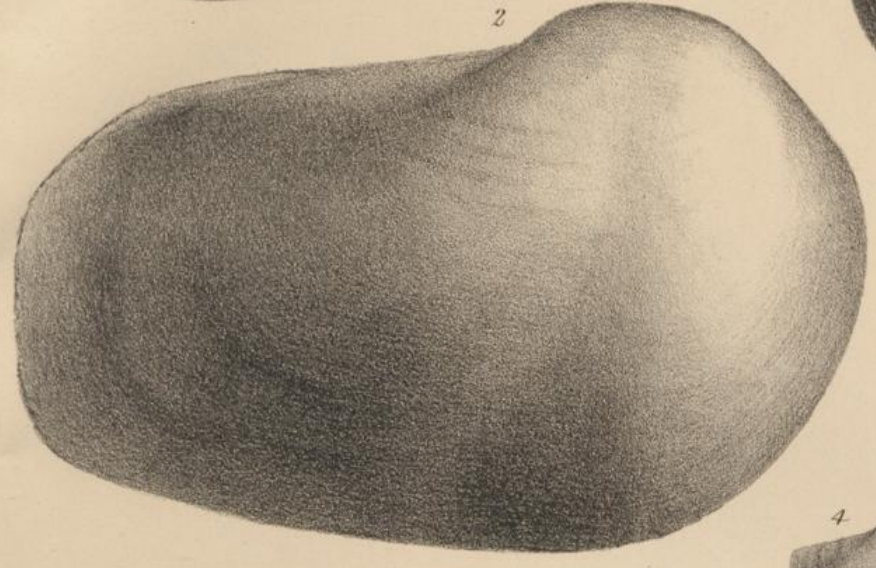
- 1, 1 a. Myacites modica, *Bean*, sp. Cornbrash (page 83). *Quenstedtia?*
 2, 2 a. Homomya gibbosa, *Sow.*, sp. (Page 88.) *?* *Cornbrash - Inf. Ool. ?*
 3, 3 a. Pholadomya lyrata, *Sow.* Cornbrash (page 87). *cf. Bradfordiana sp. nov.*
 4. Thracia amygdaloidea, *Lyc.* Great Oolite (page 80).
 5, 5 a. Homomya crassiuscula. An adult specimen, with the test preserved. Part II,
Non chg. page 112; Supplement, page 89.



1



1a



2



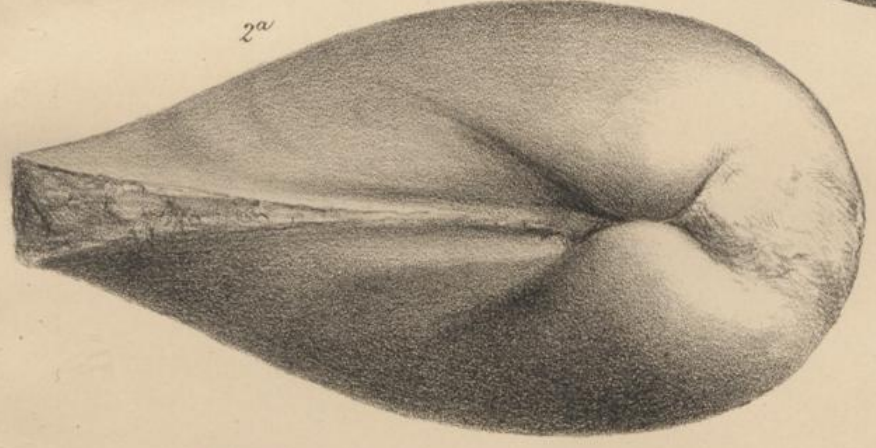
3



4



3a



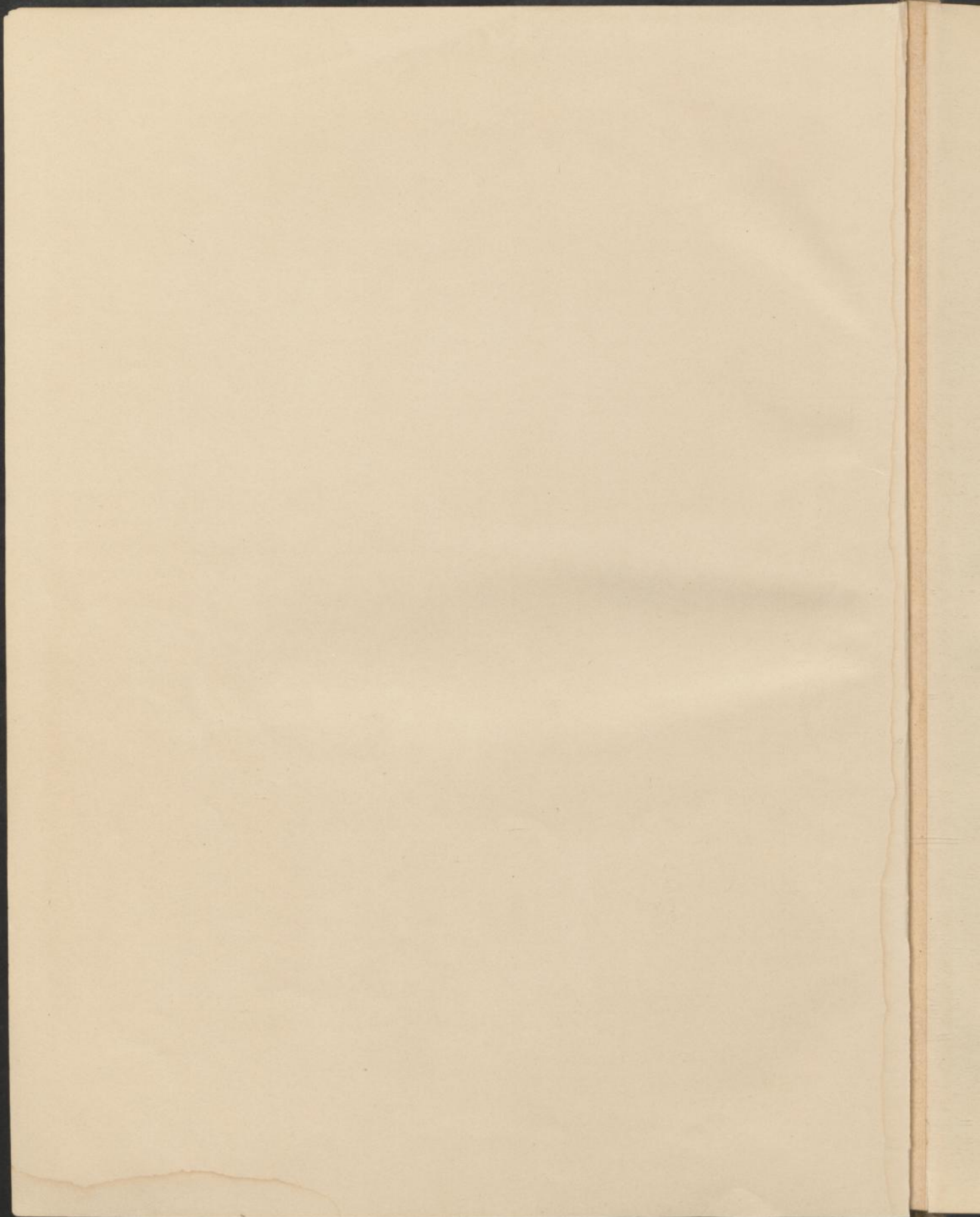
2a

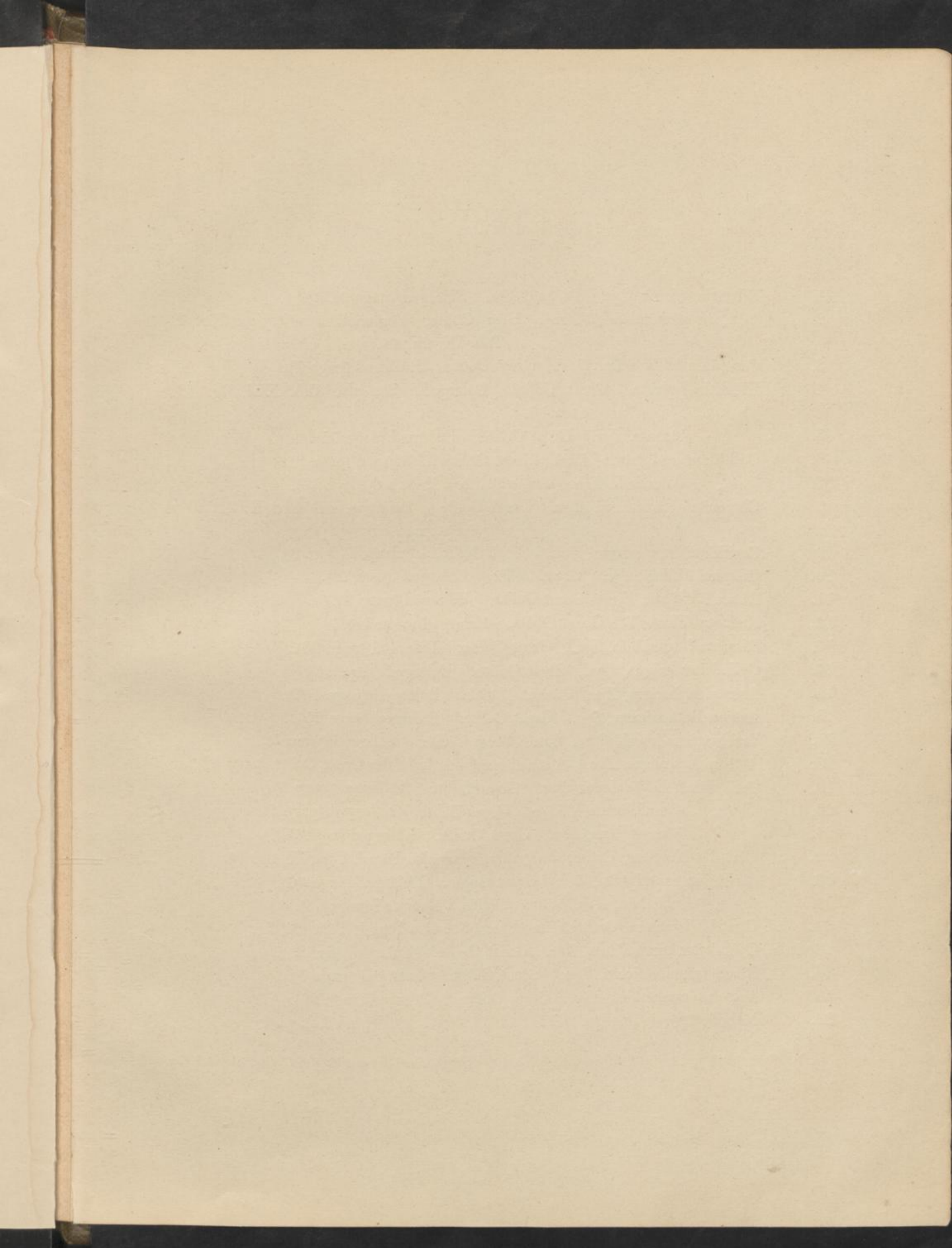


5



5a





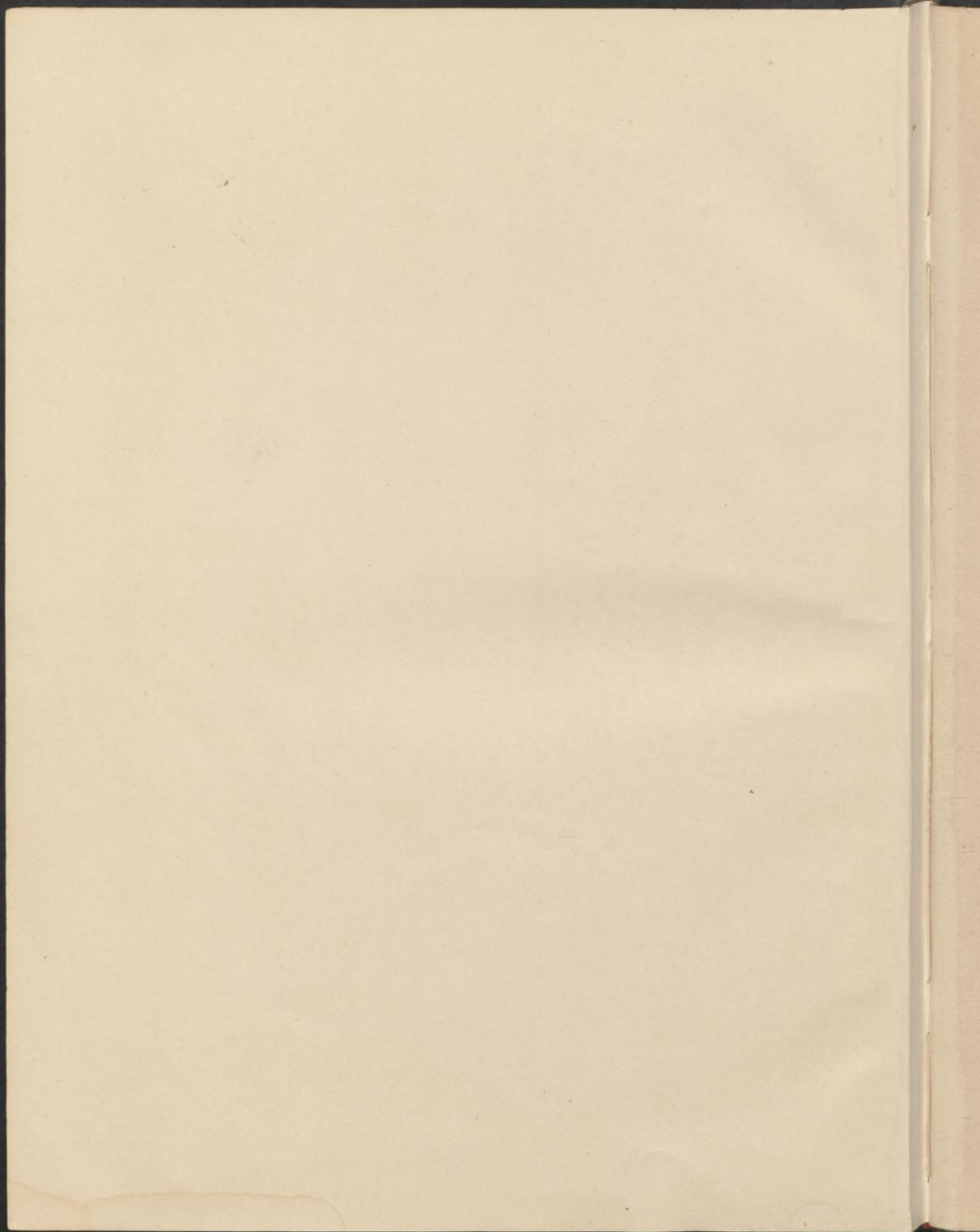
TAB. XLIV.¹

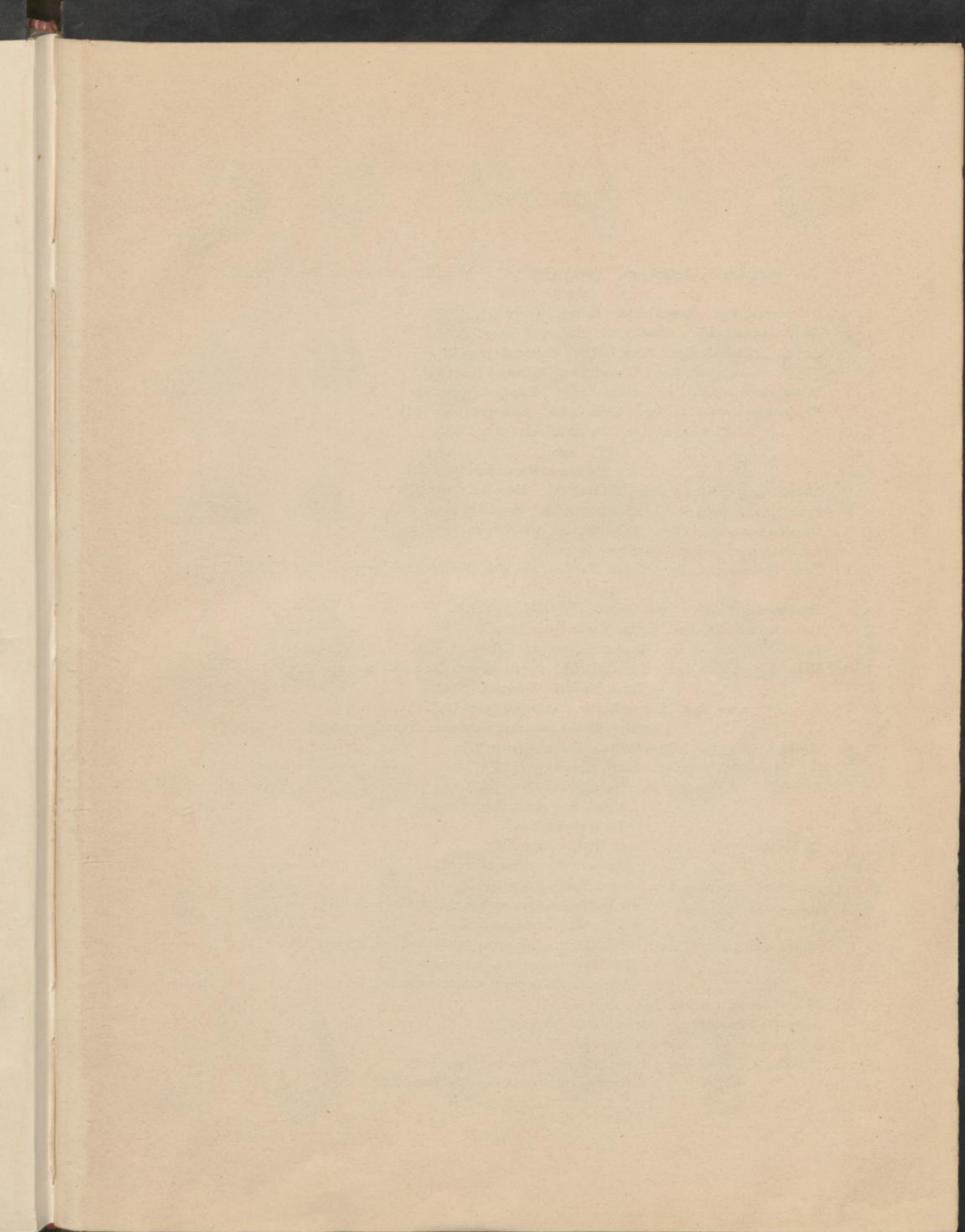
FIG.

1. *Kilvertia spicula*, *Lyc.* Great Oolite. Enlarged (page 9).
2. ,, *strangulata*, *D'Arch.* Great Oolite. For another variety see Part I, Tab. IX, fig. 18.
3. *Cerithium bulimoides*, *Desl.* Great Oolite. Enlarged (page 7).
4. *Kilvertia pulchra*. Great Oolite. Enlarged. See also Tab. XLI, fig. 12, page 10.
5. ,, *formosa*, *Lyc.* Great Oolite. Enlarged (page 95).
6. *Cerithium undulatum*, *Desl.* Great Oolite. Enlarged (page 8).
7. ,, *Witchelli*, *Lyc.* Great Oolite. Enlarged (page 10).
8. *Chemnitzia constricta*, *Lyc.* Great Oolite. Enlarged. Printed *Kilvertia* by mistake at page 15.
9. *Cerithium compositum*, *Lyc.* Great Oolite. Enlarged (page 9).
10. *Rissoina Milleri*, *Lyc.* Great Oolite. Enlarged (page 18).
11. *Rissoa?* *exigua*, *Lyc.* Great Oolite. Enlarged (page 9).
12. *Rissoina Witchelli*. Great Oolite. Enlarged (page 18).
13. *Rissoina?* *tumidula*, *Lyc.* Great Oolite. Enlarged (page 98).
14. *Cylindrites exigua*, *Lyc.* Great Oolite. Enlarged (page 24).
15. *Acteonina fasciata*, *Lyc.* Forest Marble. Enlarged (page 107).
16. *Acteon Bathonicum*, *Lyc.* Great Oolite. Enlarged (page 25).
17. *Brachytrema buccinoidea*, *Lyc.* Great Oolite. Enlarged (page 5).
18. *Acteonina scalaris*, *Lyc.* A small specimen from the Great Oolite (page 28).
19. *Cerithium?* *Bathonicum*, *Lyc.* Great Oolite. Enlarged (page 6).
20. ,, *multiforme*, *Piette.* Great Oolite. Enlarged (page 7).
21. ,, *? neglectum*, *Lyc.* Great Oolite. Enlarged (page 92).
22. *Ceritella Morrisea*, *Orthostoma*, *Buv.* See also Part I, Tab. IX, fig. 14.
23. *Cerithium exscalptum*, *Lyc.* Great Oolite. Enlarged (page 93).
24. ,, *poculum*, *Lyc.* Great Oolite. Enlarged (page 93).
25. *Ceritella Lycettea*, *Orthostoma*, *Buv.* See also Part I, Tab. IX, fig. 7.
- 26, 26 a. *Cylindrites turriculatus*, *Lyc.* Great Oolite. Enlarged (fig. 25).
27. *Brachytrema varicosa*, *Lyc.* Great Oolite. Enlarged (page 5).
28. *Acteon phasianoides*, *Lyc.* Great Oolite. Enlarged (page 26).
29. *Monodonta exigua*, *Lyc.* Great Oolite. Enlarged (page 22).

¹ All the fossils upon this Tab., excepting No. 15, were obtained by crushing shelly portions of the Great Oolite.







TAB. XLV.

FIG.

1. *Monodonta Lyellii*, *D'Arch.*, sp. Young shell. For the adult condition see Part I, Tab. XI, fig. 4.
2. *Natica arata*, *Lyc.* Great Oolite. Enlarged (page 97).
3. *Nerita clavatula*, *Lyc.* Great Oolite. Enlarged (page 98).
4. *Ceritella fusiformis*, *Lyc.* Great Oolite. Enlarged (page 12).
5. „ *minutissima*, *Lyc.* Great Oolite. Enlarged (page 11).
6. *Monodonta composita*, *Lyc.* Great Oolite. Enlarged (page 23).
7. *Pleurotomaria recondita*, *Lyc.* Great Oolite. Enlarged (page 106).
8. „ *Burtonensis*, *Lyc.* Forest Marble (page 105).
- 8 a. „ „ The base.
- 8 b. „ „ Portion of the surface magnified.
9. *Monodonta sparsistriata*, *Lyc.* Great Oolite. Magnified (page 22).
10. *Pleurotomaria Bathonica*, *Lyc.* Great Oolite. Magnified (page 105).
- 11, 11 a. *Onustus Burtonensis*, *Lyc.* Forest Marble. Slightly enlarged (page 103).
12. *Trochus strigosus*, *Lyc.* Cornbrash (page 29).
13. *Turbo depauperatus*, *Lyc.* Forest Marble. See also *Pleurotomaria pagodus*, Part I, Tab. X, fig. 9.
14. *Trochus Guisei*, *Lyc.* Great Oolite. Magnified (page 21).
15. *Turbo Burtonensis*, *Lyc.* Forest Marble (page 100).
16. *Trochus Burtonensis*, *Lyc.* Forest Marble (page 99).
17. *Monodonta tegulata*, *Lyc.* Forest Marble. Specimen with fine striations (page 102).
18. „ „ Forest Marble. Enlarged.
19. „ *arata*, *Lyc.* Forest Marble. Enlarged (page 102).
20. „ „ Variety with the encircling lines more distantly arranged.
21. *Natica insignis*, *Lyc.* Great Oolite. Enlarged (page 97).
22. „ (*Euspira*) *alta*, *Lyc.* Forest Marble (page 97).
23. *Solarium turbiniiformis*, *Lyc.* Forest Marble (page 104).
- 23 a. „ „ A portion of the surface enlarged.
- 23 b. „ „ The lower surface.
- 24, 24 a. *Monodonta comma*, *Lyc.* Forest Marble (page 101).
- 24 b. „ „ A portion of the surface enlarged.
25. *Acteonina Wiltonensis*, *Lyc.* Forest Marble (page 107).
- 26, 26 a. *Solarium Waltoni*, *Lyc.* Forest Marble. Upper surface and profile (page 104).
- 26 b, c. „ „ Forest Marble. Lower surface.
- 27, 27 a. *Solarium Bathonicum*, *Lyc.* Great Oolite. The upper surface and profile (page 23).
- 27 b, 27 c. „ „ The lower surface of a smaller specimen.
- 27 d. „ „ A portion of the upper surface magnified.
- 28, 28 a, 28 b. *Phasianella variata*, *Lyc.* Page 104.
29. *Acteonina Suessea*, *Lyc.* Forest Marble (page 107).
- 30, 30 a. *Natica texata*, *Lyc.* Forest Marble (page 96).
- 31, 31 a. *Monodonta Waltoni*, *Lyc.* Forest Marble. Enlarged (page 101).
- 31 b. „ „ A portion of the striated surface magnified.

