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DIE
RADIOLARIE N.
(RHIZOPODA RADIARIA.)

EINE MONOGRAPHIE

VON

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ATLAS

VON

FÜNF UND DREISSIG KUPFERTAFELN.

BERLIN.

DRUCK UND VERLAG VON GEORG REIMER.

S. 1862.

Systematische Uebersicht

der in dem Atlas abgebildeten Radiolarien-Arten, nach den Familien und Gattungen geordnet.

Aum. Die römischen Ziffern hinter den Arten-Namen zeigen die Tafel, die arabischen Ziffern die Figur an.

Erste Unterordnung der Radiolarien: MONOZOA (MONOCYTTARIA).

Erste Reihe der Monozoen: Ectolithia.

Erste Familie: Collida.

Erste Unterfamilie der Colliden: Thalassicollida.
I. Genus. Thalassicolla.

1. Thalassicolla pelagica I, 1—5.
2. T. nucleata III, 1—5.
3. T. zanclea II, 3.
4. Thalassolampe margarodes II, 4, 5.
5. Physematum Muelleri III, 6—9.
6. Thalassosphaera bifurca XII, 1.
7. Thalassoplanta eavispicula III, 10—13.
8. Aulacantha seolymantha II, 1, 2; IV, 1—5.
9. Zygostephanus Muelleri XII, 2.
10. Prismatum triplerum IV, 6.
11. Dictyocha messanensis XII, 3—6.

Dritte Familie: Cyrtida.

Erste Unterfamilie der Cyrtiden: Monocyrtida.

- X. Genus. Litharachnum.
12. Litharachnum tentorium IV, 7—10.
13. Cyrtocalpis obliqua V, 3—11.
14. C. amphora V, 2.
15. Carpocanium diadema V, 1.
16. Petalospyris arachnoides XII, 7.
17. Lithomelissa thoracites VI, 2—8.
18. Arachnocorys circumtexta VI, 9—11.
19. A. umbellifera VI, 12.
20. Dictyophimus tripus VI, 1.
21. Eucecrysphalus Gegenbauri V, 12—15.
22. E. Schultzei V, 16—19.
23. Eucyrtidium eranooides VII, 1—3.
24. E. carinatum VII, 4—7.
25. E. anomalum VII, 11—13.
26. E. galea VII, 8—10.
27. E. lagena IV, 11.
28. Dictyoceras Virchowii VIII, 1—5.

XX. Genus. Dictyopodium.

29. Dictyopodium trilobum VIII, 6—10.
30. Spyridobotrys trinaeria XII, 8, 9.

XXI. Genus. Spyridobotrys.

31. Botryocampe hexathalamia XII, 10.

Vierte Familie: Ethmosphaerida.

Erste Unterfamilie der Ethmosphaeriden: Heliosphaerida.

- XXII. Genus. Botryocampe.
32. Cyrtidosphaera reticulata XI, 2.
33. Ethmosphaera siphonophora XI, 1.
34. Heliosphaera inermis IX, 1.
35. H. tenuissima IX, 2.
36. H. actinota IX, 3.
37. H. echinoides IX, 4.
38. H. elegans IX, 5.
39. Diplosphaera gracilis X, 1.
40. Arachnosphaera oligacantha X, 2; XI, 3.
41. A. myriacantha X, 3; XI, 4.

Fünfte Familie: Aulosphaerida.

XXVII. Genus. Arachnosphaera.

42. Aulosphaera trigonopa X, 4.
43. A. elegantissima X, 5; XI, 5, 6.

Zweite Reihe der Monozoen: Entolithia.

Sechste Familie: Coelodendrida.

XXIX. Genus. Coelodendrum.

44. Coelodendrum ramosissimum XIII, 1—4.

45. C. gracillimum XXXII, 1—3.

Siebente Familie: Cladococida.

XXX. Genus. Rhaphidococcus.

46. Rhaphidococcus simplex XIII, 5, 6.

47. R. acufer XIV, 1.

XXXI. Genus. Cladococcus.

48. Cladococcus dentatus XIII, 10.

49. C. spinifer XIII, 9.

50. C. bifureus XIII, 7, 8.

51. C. viminalis XIV, 2, 3.

52. C. cervicornis XIV, 4—6.

Achte Familie: Acanthometrida.

Erste Unterfamilie der Acanthometriden: Acanthostaurida.

XXIII. Genus. Acanthometra.

53. Acanthometra elastica XV, 1; XVIII, 1.

54. A. bulbosa XV, 2; XVIII, 2.

55. A. dolichoscia XVIII, 3a, 3b.

56. A. compressa XVIII, 4a, 4b.

57. A. tetracopa XVIII, 5.

58. A. Muelleri XV, 3; XVIII, 6.

59. A. fragilis XV, 4; XVIII, 7.

60. A. sicula XVII, 1, 2; XVIII, 8.

61. A. brevispina XV, 5; XVIII, 9.

62. A. quadrifolia XVIII, 10.

63. A. cuspidata XVIII, 11.

64. A. Claparèdei XVIII, 12.

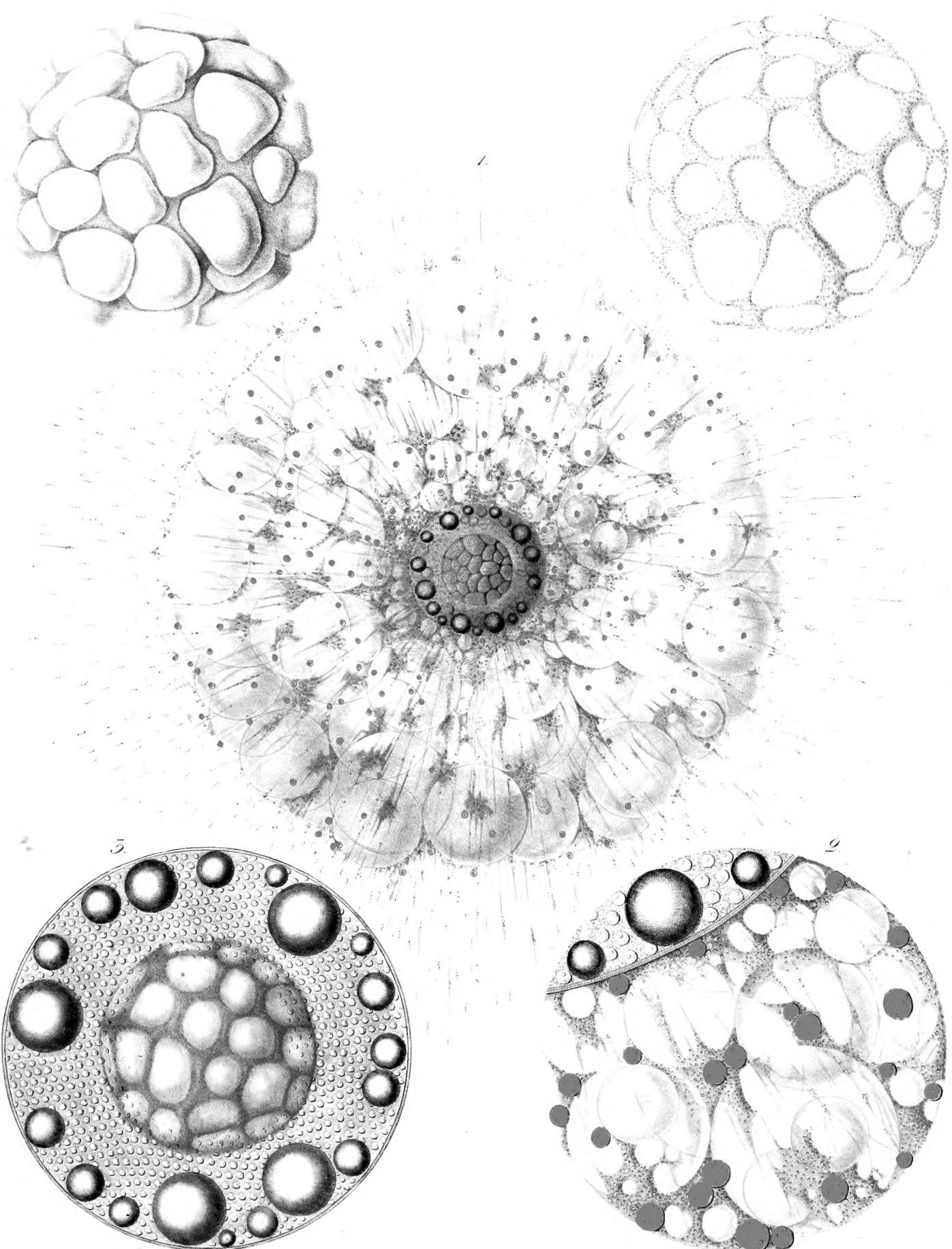
- XXXIII. Genus. *Xiphacantha*.
 65. *Xiphacantha cruciata* XVIII, 13.
 66. *X. serrata* XVII, 3; XVIII, 14a, 14b.
 67. *X. quadridentata* XVIII, 15a, 15b.
 68. *X. spinulosa* XVII, 4.
- XXXIV. Genus. *Amphilonche*.
 69. *Amphilonche tenuis* XVI, 1; XVIII, 16.
 70. *A. denticulata* XVI, 2; XVIII, 17.
 71. *A. complanata* XVI, 3; XVIII, 18a, 18b.
 72. *A. messanensis* XVI, 4; XVIII, 19.
 73. *A. tetraptera* XVI, 5; XVIII, 20.
 74. *A. belonoides* XVI, 6; XVIII, 21.
 75. *A. elongata* XVIII, 22A, 22B.
 76. *A. heteracantha* XVI, 7.
 77. *A. anomala* XVIII, 8; XVIII, 23A, 23B.
- XXXV. Genus. *Acanthostaurus*.
 78. *Acanthostaurus purpurascens* XIX, 1, 2.
 79. *A. forceps* XIX, 3, 4.
 80. *A. hastatus* XIX, 5.
- XXXVI. Genus. *Lithoptera*.
 81. *Lithoptera Muelleri* XX, 1, 2.
- Zweite Unterfamilie der Acanthometriden: *Astrolithida*.
- XXXVII. Genus. *Astrolithium*
 82. *Astrolithium dicopum* XX, 3, 4.
 83. *A. bifidum* XX, 5.
- XXXVIII. Genus. *Stauroolithium*.
 84. *Stauroolithium cruciatum* XX, 6.
- Dritte Unterfamilie der Acanthometriden: *Litholophida*.
- XXXIX. Genus. *Litholophus*.
 85. *Litholophus rhipidium* XIX, 6.
- Vierte Unterfamilie der Acanthometriden: *Acanthochiasmida*.
- XL. Genus. *Acanthochiasma*.
 86. *Acanthochiasma Krohnii* XIX, 7.
 87. *A. fusiforme* XIX, 8.
- Neunte Familie: *Diploconida*.
- XLI. Genus. *Diploconus*.
 88. *Diploconus fasces* XX, 7, 8.
- Zehnte Familie: *Ommatida*.
- Erste Unterfamilie der Ommatiden: *Dorataspidida*.
- XLII. Genus. *Dorataspis*.
 89. *Dorataspis bipennis* XXI, 1, 2.
 90. *D. costata* XXIII, 1.
 91. *D. loricata* XXI, 3—6.
 92. *D. solidissima* XXII, 6—9.
 93. *D. diodon* XXII, 1—5.
 94. *D. polyancistra* XXI, 7—9.
- XLIII. Genus. *Haliommatidium*.
 95. *Haliommatidium Muelleri* XXII, 10—12.
 96. *H. tetragonopum* XXII, 13.
- Zweite Unterfamilie der Ommatiden: *Haliommatida*.
- XLIV. Genus. *Haliomma*.
 97. *Haliomma capillaceum* XXIII, 2.
 98. *H. erinaceus* XXIII, 3, 4.
 99. *H. castanea* XXIV, 4.
 100. *H. echinaster* XXIV, 1—3.
- XLV. Genus. *Heliodiscus*.
 101. *Heliodiscus phacodiscus* XVII, 5—7.
- Dritte Unterfamilie der Ommatiden: *Actinommatida*.
- XLVI. Genus. *Actinomma*.
 102. *Actinomma inerme* XXIV, 5.
 103. *A. trinaerium* XXIV, 6—8.
 104. *A. asteracanthion* XXIII, 5, 6.
 105. *A. drymodes* XXIV, 9.

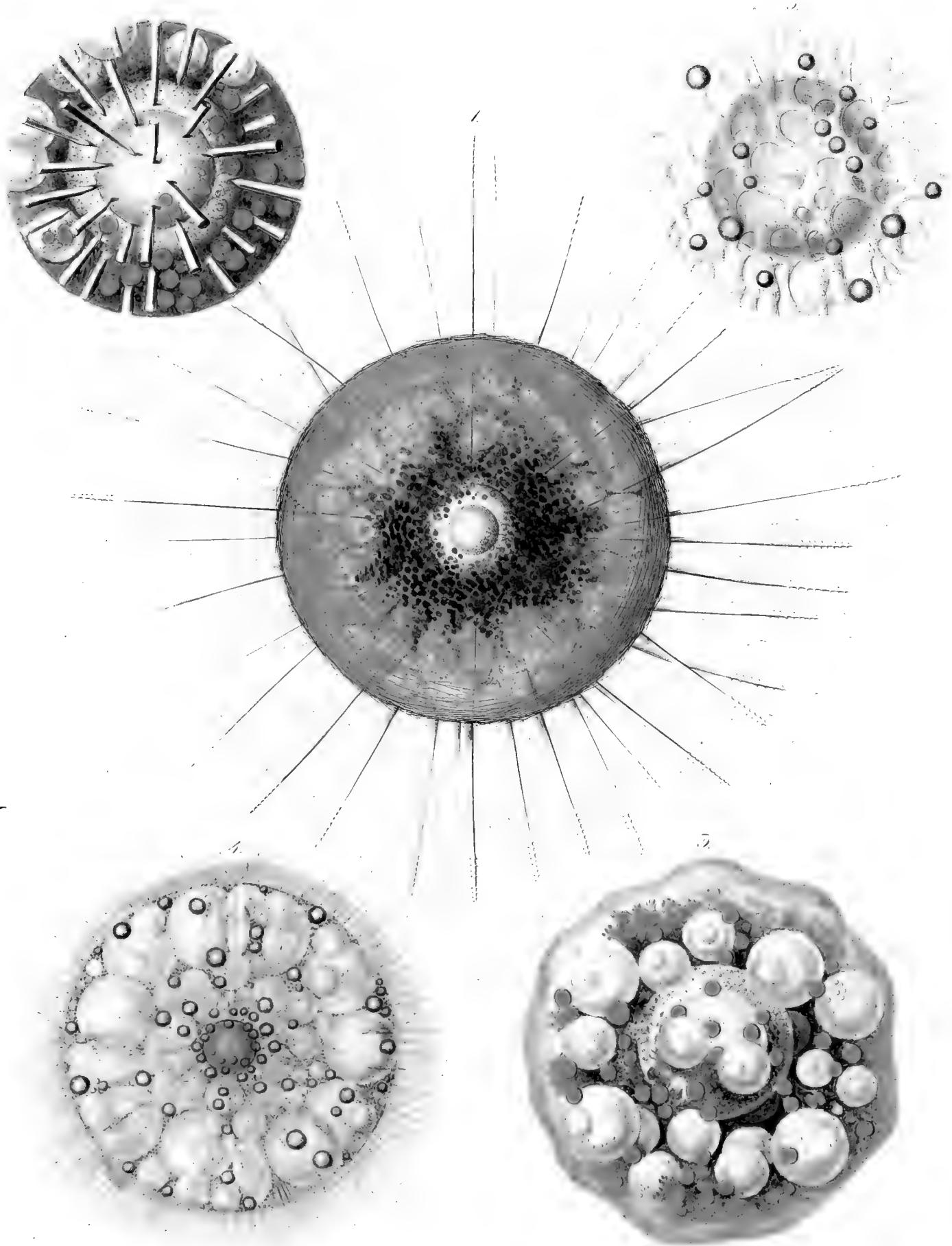
- XLVII. Genus. *Didymocystis*.
 106. *Didymocystis ceratospyris* XXII, 14—16.
- Elfte Familie: *Spongurida*.
- Erste Unterfamilie der Sponguriden: *Spongphaerida*.
- XLVIII. Genus. *Rhizosphaera*.
 107. *Rhizosphaera trigonacantha* XXV, 1—7.
 108. *R. leptomita* XXV, 8—10.
- XLIX. Genus. *Spongphaera*.
 109. *Spongphaera streptacantha* XXVI, 1—3.
 110. *S. helioidea* XII, 11—13.
- L. Genus. *Spongodictyum*.
 111. *Spongodictyum trigonizon*.
- Zweite Unterfamilie der Sponguriden: *Spongodiscida*.
- LI. Genus. *Spongodiscus*.
 112. *Spongodiscus mediterraneus* XII, 14, 15.
- LII. Genus. *Spongotrochus*.
 113. *Spongotrochus brevispinus* XXVII, 4, 5.
 114. *S. longispinus* XXVII, 2, 3.
- LIII. Genus. *Spongurus*.
 115. *Spongurus cylindricus* XXVII, 1.
- Dritte Unterfamilie der Sponguriden: *Spongocyclida*.
- LIV. Genus. *Spongocyclia*.
 116. *Spongocyclia cycloides* XXVIII, 1.
117. *S. elliptica* XXVIII, 2.
 118. *S. orthogona* XXVIII, 3.
 119. *S. scyllaea* XXVIII, 4.
 120. *S. charybdacea* XXVIII, 5, 6.
- LV. Genus. *Stylospongia*.
 121. *Stylospongia Huxleyi* XXVIII, 7.
- LVI. Genus. *Spongasteriscus*.
 122. *Spongastericus quadricornis* XXVIII, 8—10.
- Zwölfta Familie: *Discida*.
- Erste Unterfamilie der Disciden: *Coccodiscida*.
- LVII. Genus. *Coccodiscus*.
 123. *Coccodiscus Darwinii* XXVIII, 11, 12.
- Zweite Unterfamilie der Disciden: *Trematodiscida*.
- LVIII. Genus. *Trematodiscus*.
 124. *Trematodiscus orbiculatus* XXIX, 1.
 125. *T. sorites* XXIX, 2.
 126. *T. heterocycles* XXIX, 3.
- LIX. Genus. *Stylodictya*.
 127. *Stylodictya quadrispina* XXIX, 4.
 128. *S. multispina* XXIX, 5.
- LX. Genus. *Rhopalastrum*.
 129. *Rhopalastrum truncatum* XXIX, 6.
- LXI. Genus. *Euchitonaria*.
 130. *Euchitonaria Virchowii* XXX, 1—4.
 131. *E. Beckmanni* XXXI, 1.
 132. *E. Gegenbauri* XXXI, 2, 3.
 133. *E. Muelleri* XXX, 5—10.
 134. *E. Leydigii* XXXI, 4, 5.
 135. *E. Koellikeri* XXXI, 6, 7.
- Dritte Unterfamilie der Disciden: *Discospirida*.
- LXII. Genus. *Discospira*.
 136. *Discospira helicoides* XXIX, 7.
 137. *D. operculina* XXIX, 8.
- LXIII. Genus. *Stylospira*.
 138. *Stylospira Dujardini* XXIX, 9, 10.
- Dreizehnte Familie: *Lithelida*.
- LXIV. Genus. *Lithelius*.
 139. *Lithelius spiralis* XXVII, 6, 7.
 140. *L. alveolina* XXVII, 8, 9.

Zweite Unterordnung der Radiolarien:

POLYZOA (POLYCYTTARIA).

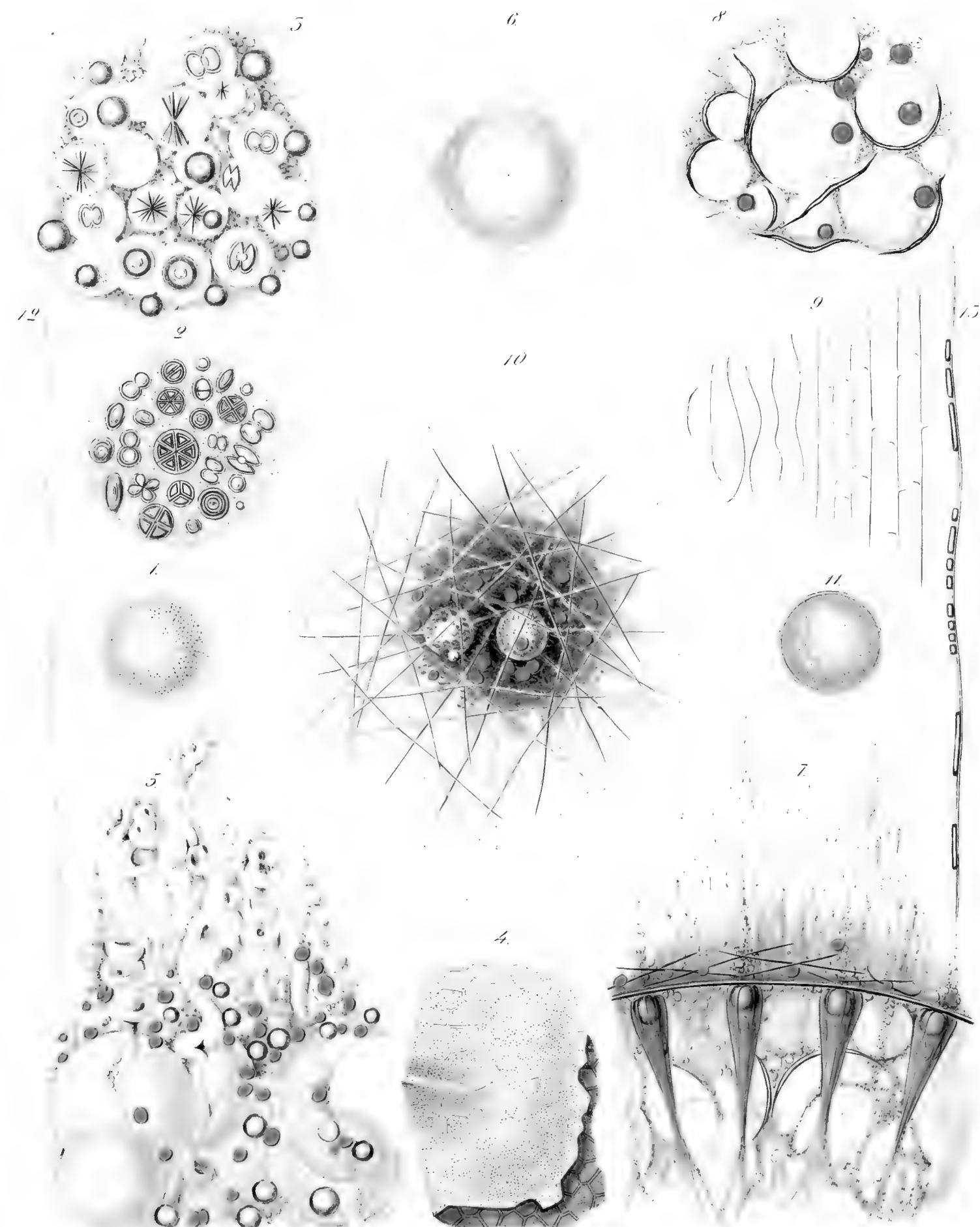
- Vierzehnte Familie: *Sphaerozoida*.
- Erste Unterfamilie der Sphaerozoiden: *Collozoidea*.
- LXV. Genus. *Collozoum*.
 141. *Collozoum inerme* XXXV, 1—14.
 142. *C. coeruleum* XXXII, 6—8.
 143. *C. pelagicum* XXXIII, 4, 5.
- Zweite Unterfamilie der Sphaerozoiden: *Raphidozoida*.
- LXVI. Genus. *Sphaerozoum*.
 144. *Sphaerozoum italicum* XXXIII, 1, 2.
145. *S. spinulosum* XXXIII, 3, 4.
 146. *S. ovodimare* XXXIII, 5, 6.
 147. *S. punctatum* XXXIII, 7—9.
- LXVII. Genus. *Raphidozoum*.
 148. *Raphidozoum aciferum* XXXII, 9—11.
- Fünfzehnte Familie: *Collosphaerida*.
- LXVIII. Genus. *Collosphaera*.
 149. *Collosphaera Huxleyi* XXXIV, 1—11.
 150. *C. spinosa* XXXIV, 12, 13.

1-5. *Thalassicolla pelagica*, Hkl.



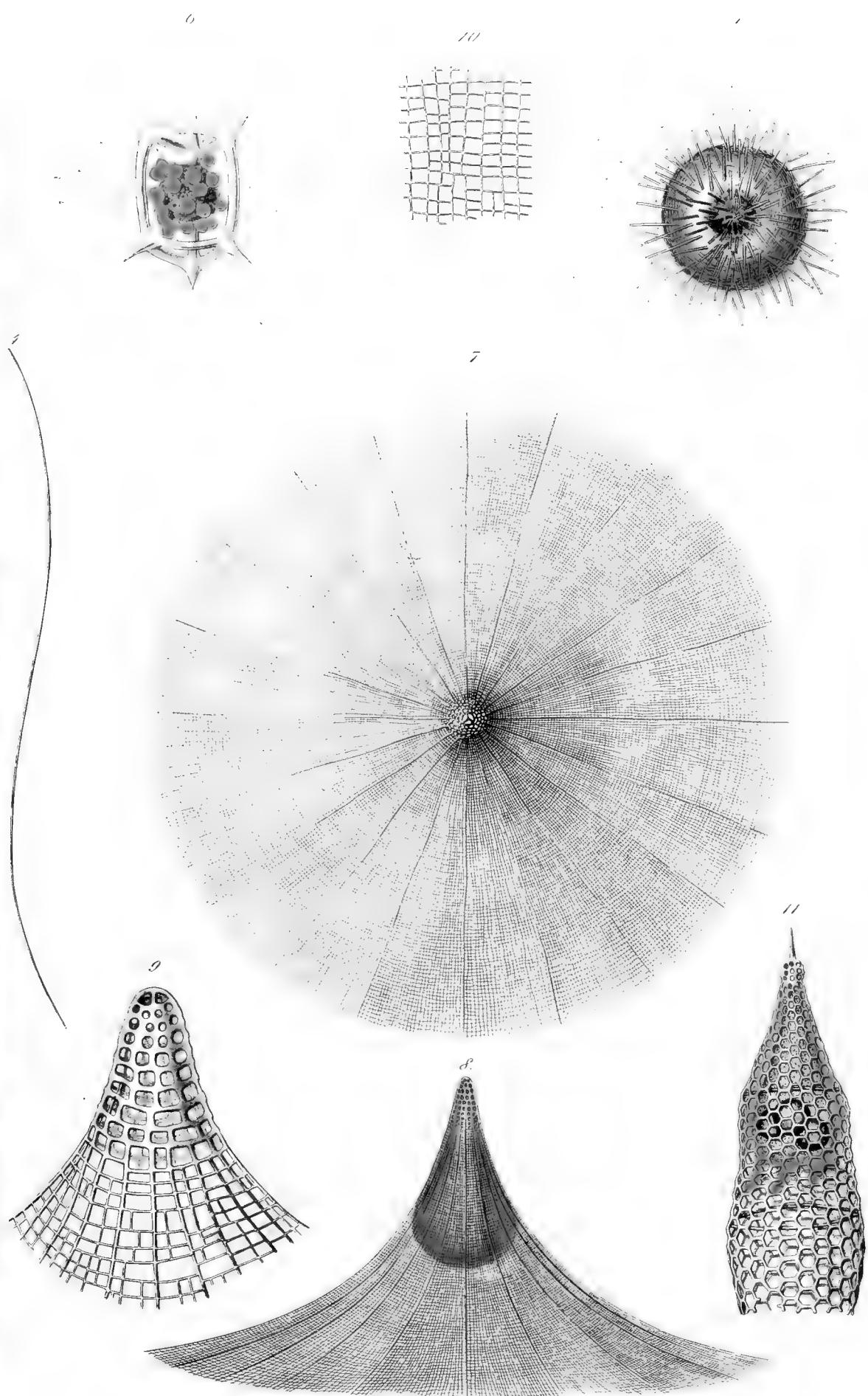
1. 2. *Aulacantha scolymantha*, Hkl. 5. *Thalassicolla Zanclea*, Hkl.

4. 5. *Thalassolampe margarodes*, Hkl.

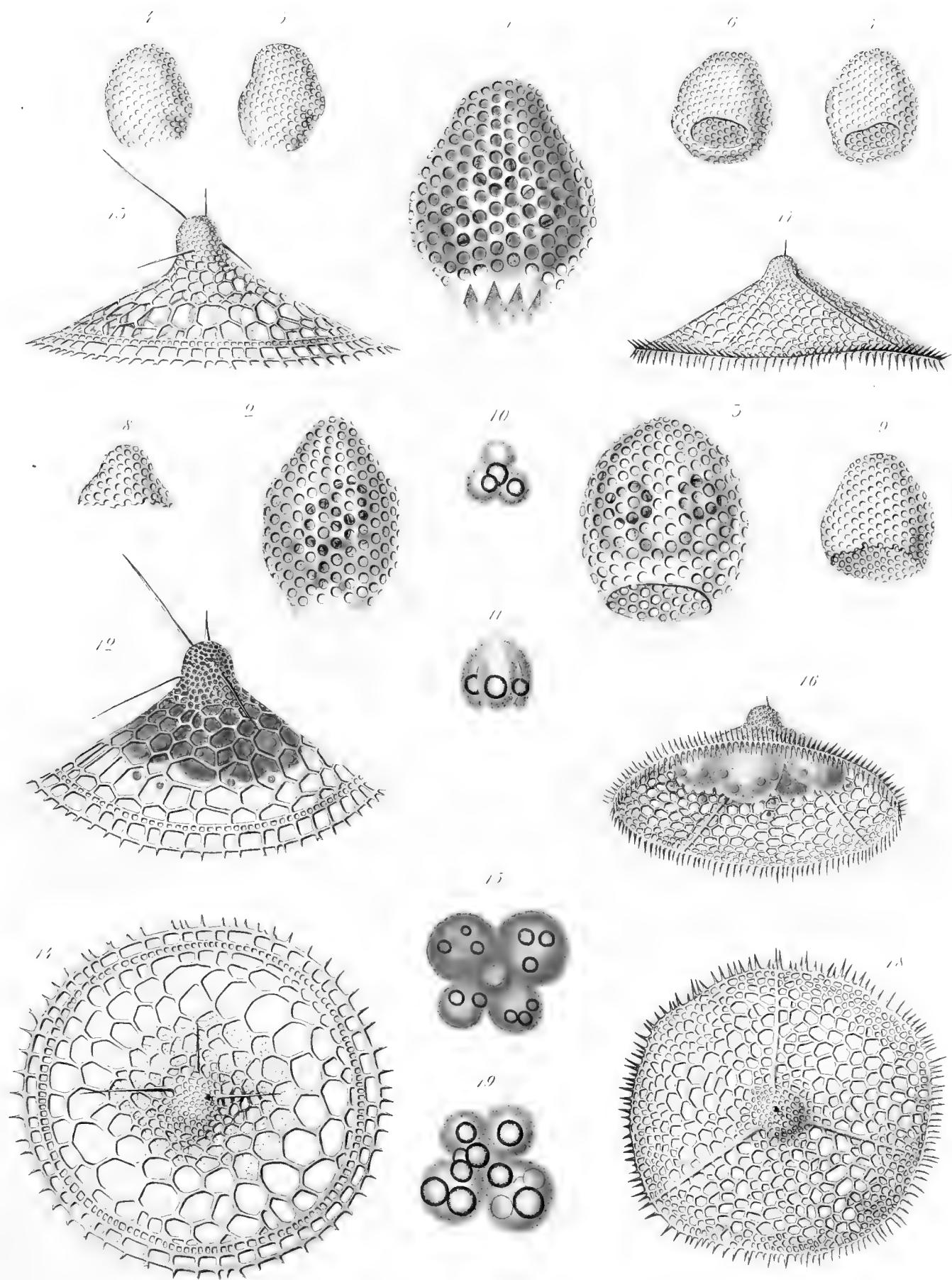


1-5. *Thalassicolla nucleata*, Husley. 6-9. *Physematium Mülleri*, Schneider.

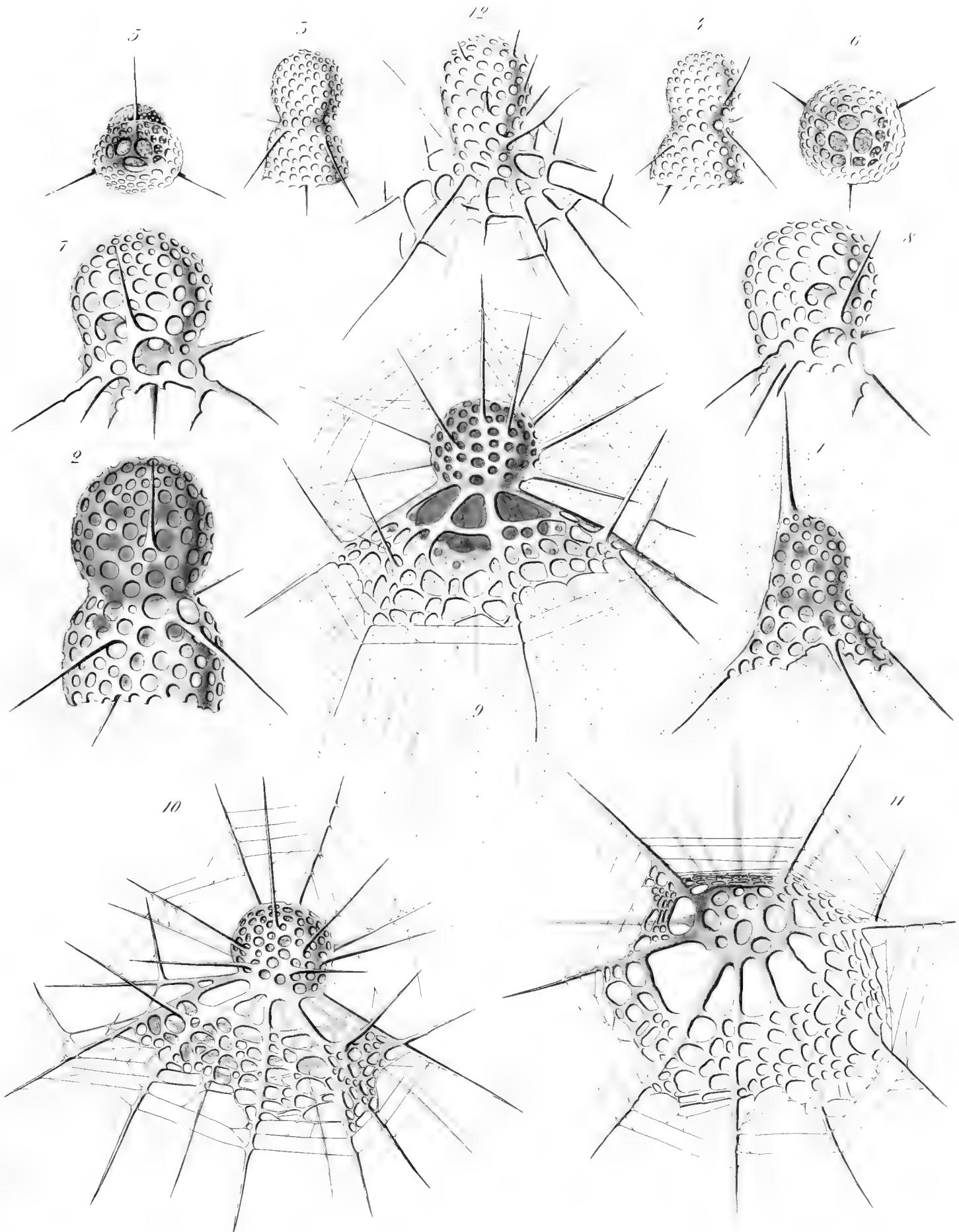
10-13. *Thalassoplaneta cavispicula*, Hkl.

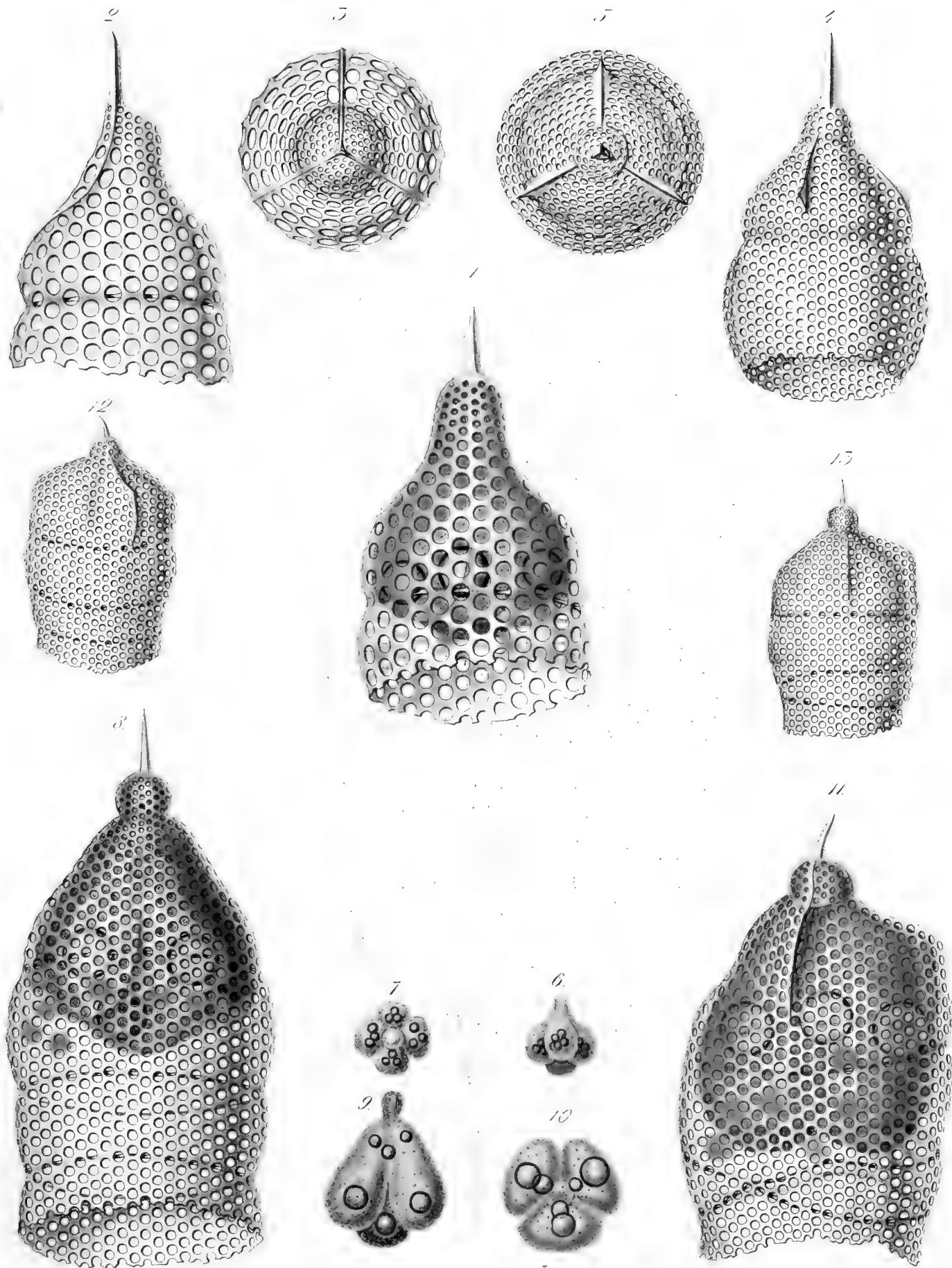


1-5. *Aulacantha scolymantha*, Hkl. 6. *Acanthodesmia Prismatum*, Hkl.
7-10. *Litharachnium Tentorium*, Hkl. 11. *Eucyrtidium Lagena*, Hkl.



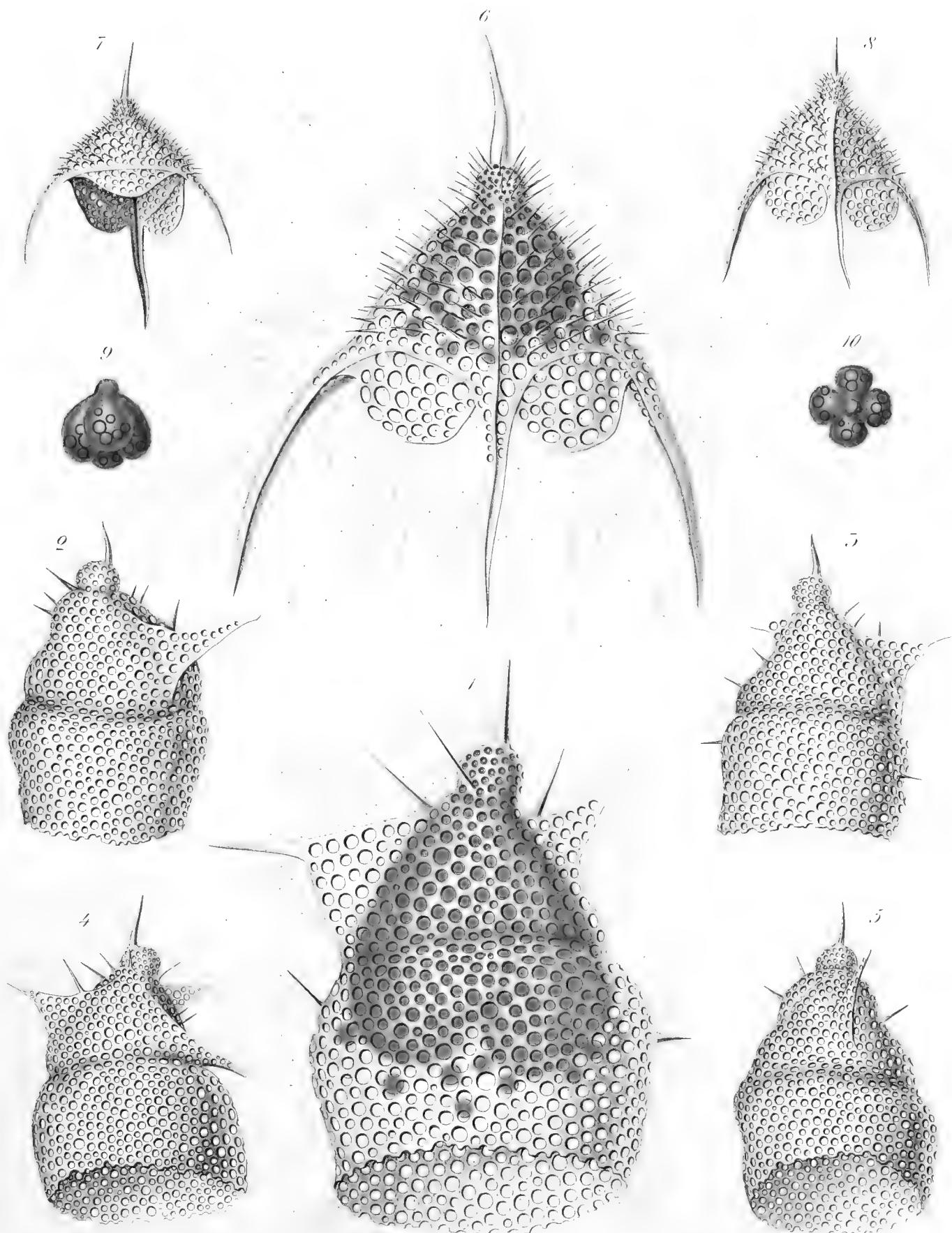
1. *Carpocanum Diadema*, III. 2-11. *Cyrtocalpis*. 2. *C. Amphora*, III. 5-11. *C. obliqua*, III.
12-19. *Euecryphalus*. 12-15. *E. Geigenbauri*, III. 16-19. *E. Schultzei*, III

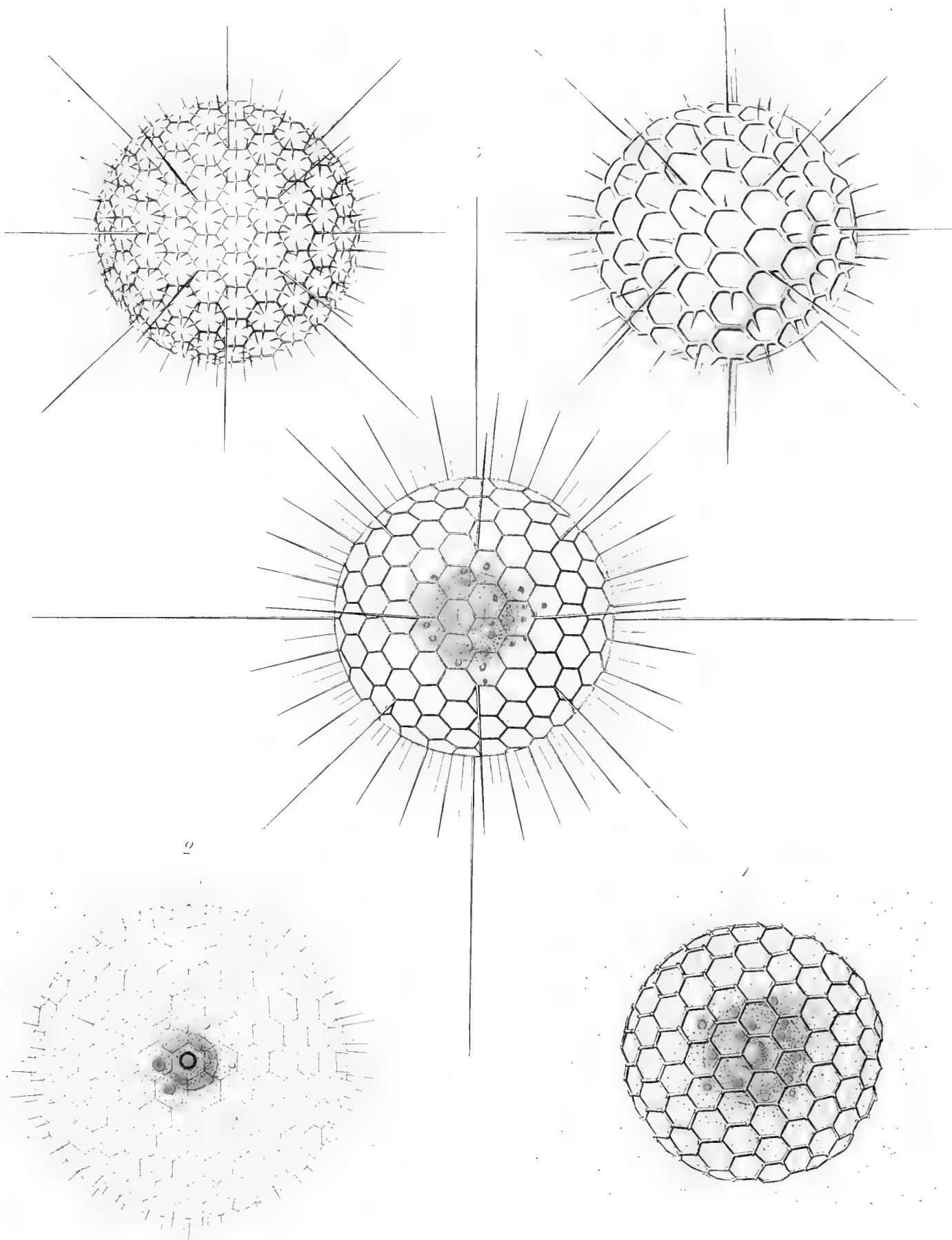
1. *Dictyophimus Tripus*, Hkl. 2-8. *Lithomelissa Thoracites*, Hkl.9-12. *Arachnocorys*. 9-11. *A. circumtexta*, Hkl. 12. *A. umbellifera*, Hkl.



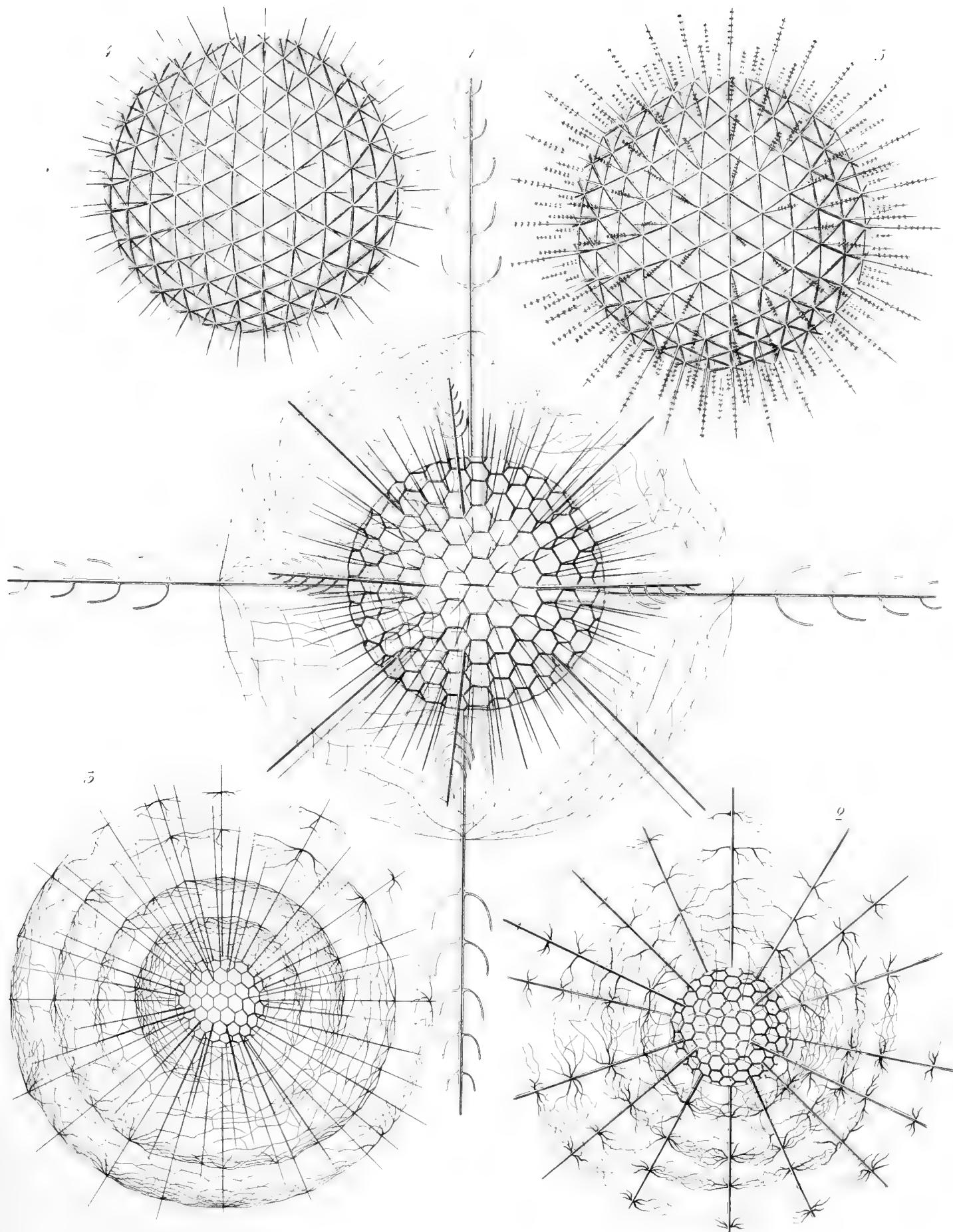
1-13. *Eucyrtidium*. 1-3. *E. cranoïdes*, Hkl. 4-7. *E. carinatum*, Hkl.

8-10. *E. Galea*, Hkl. 11-13. *E. anomalum*, Hkl

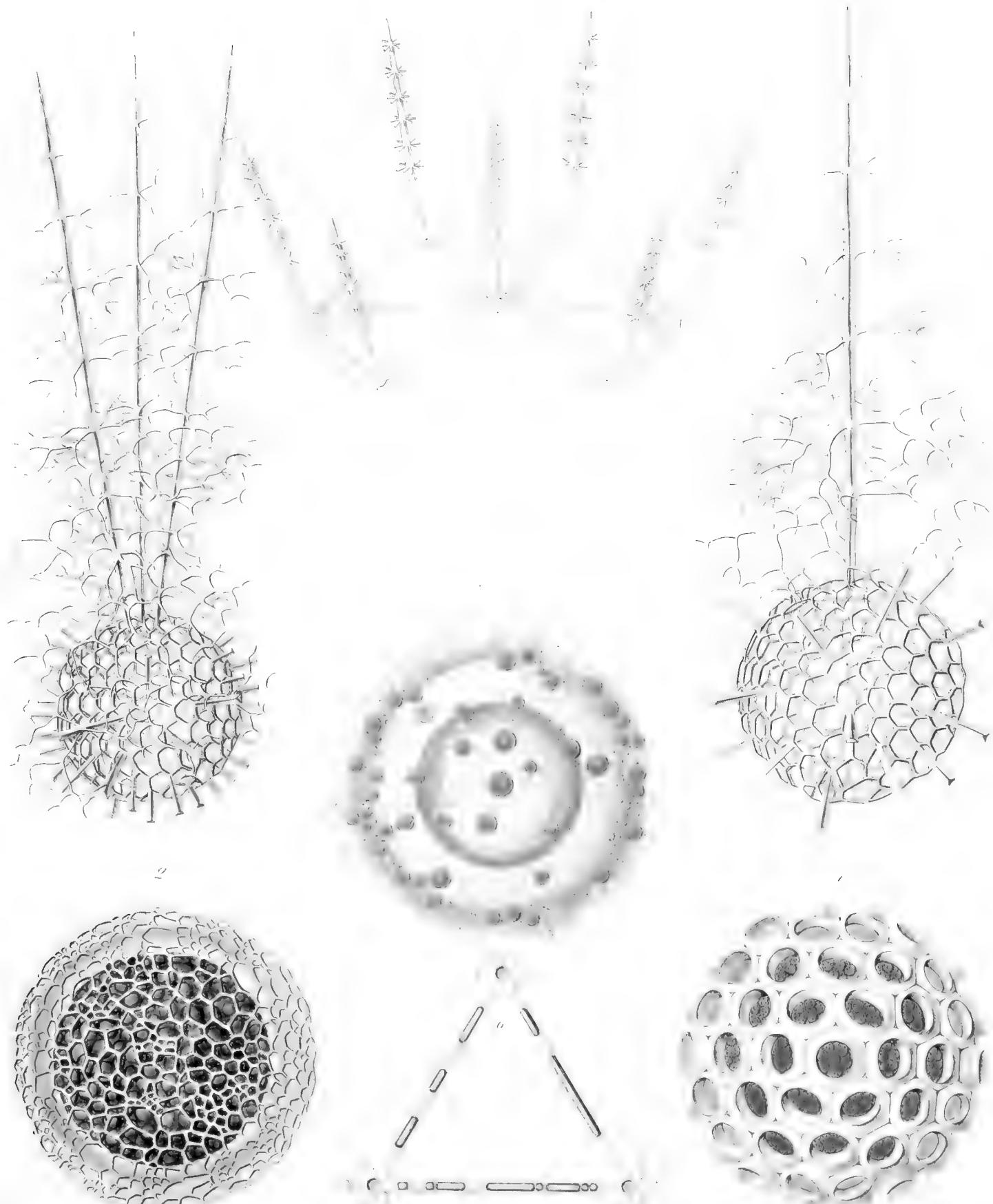
1-5. *Dictyoceras Virchowii*, Hkl. 6-10 *Dictyopodium trilobatum*, Hkl.



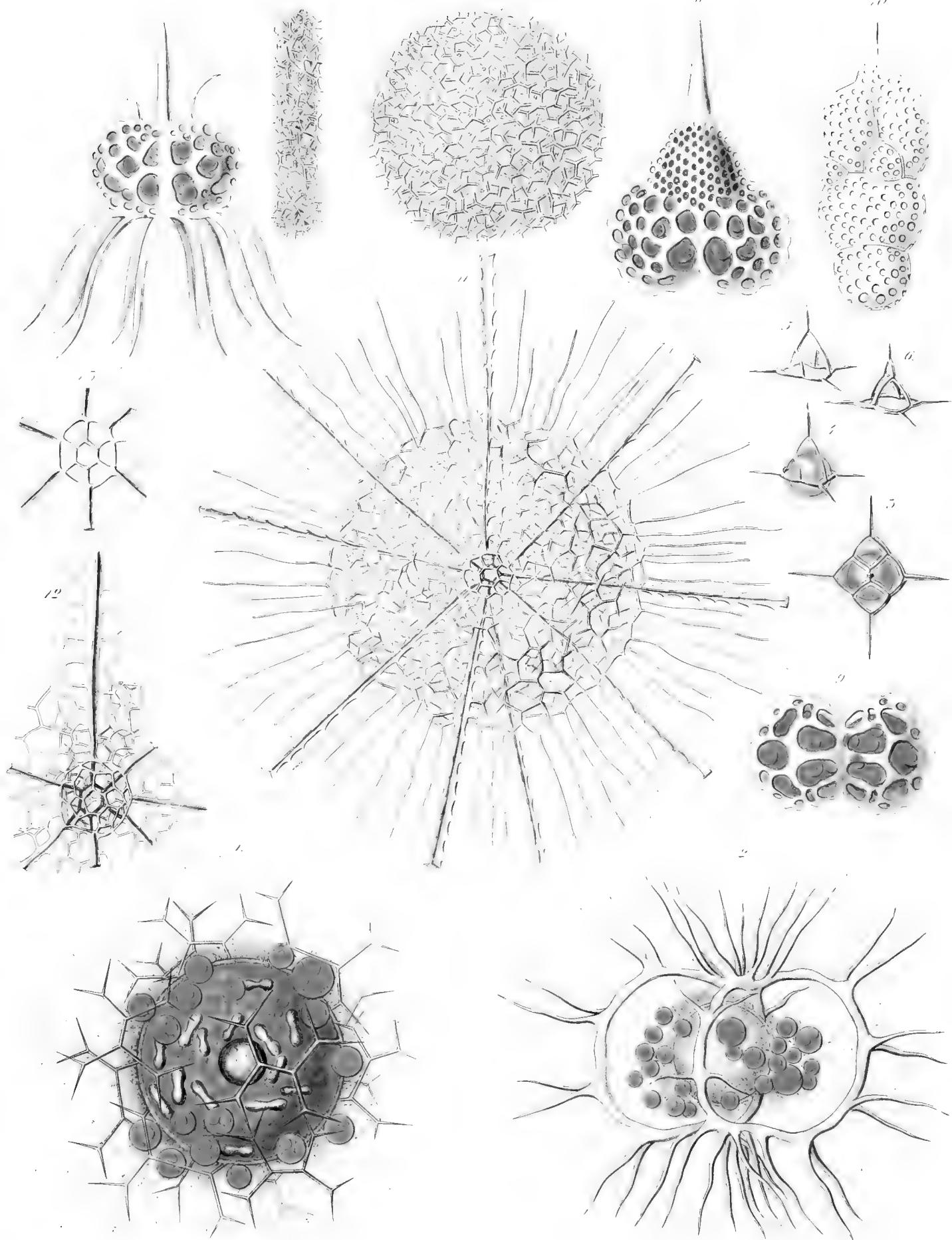
1-5. *Heliophaera*. 1. *H. inermis*, Hkl. 2. *H. tenuissima*, Hkl. 3. *H. actinota*, Hkl.
4. *H. echinoides*, Hkl. 5. *H. elegans*, Hkl.



1. *Diplosphaera gracilis*, Hkl. 2. 3. *Arachnosphaera*. ♀. *A. oligacantha*, Hkl.
5. *A. myriacantha*, Hkl. 4. 5. *Aulosphaera*. 4. *A. trigonopa*, Hkl. 5. *A. elegantissima*, Hkl

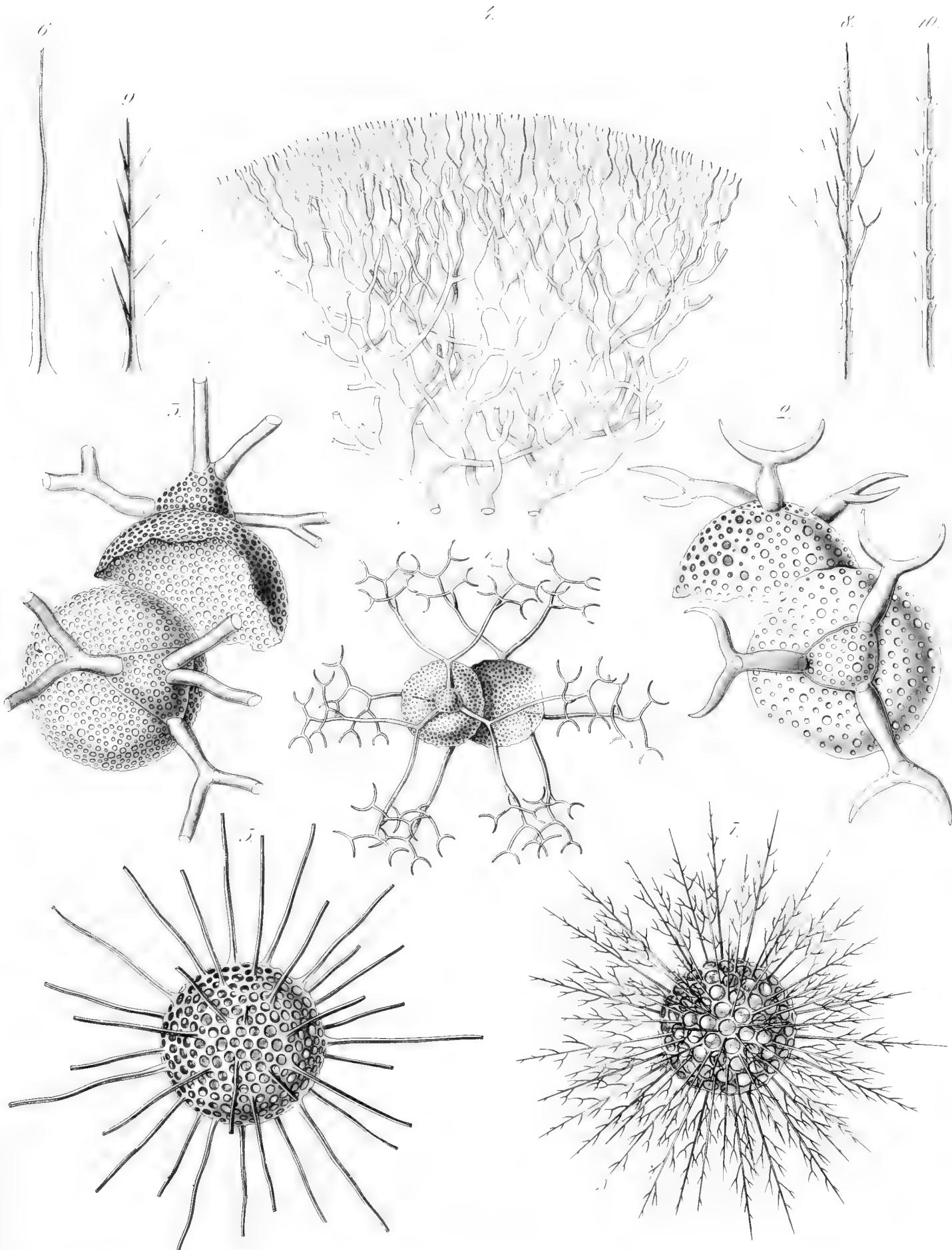


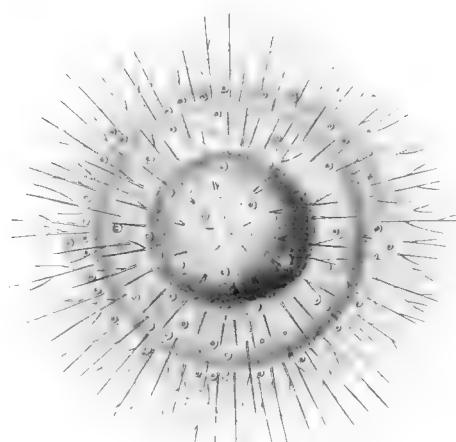
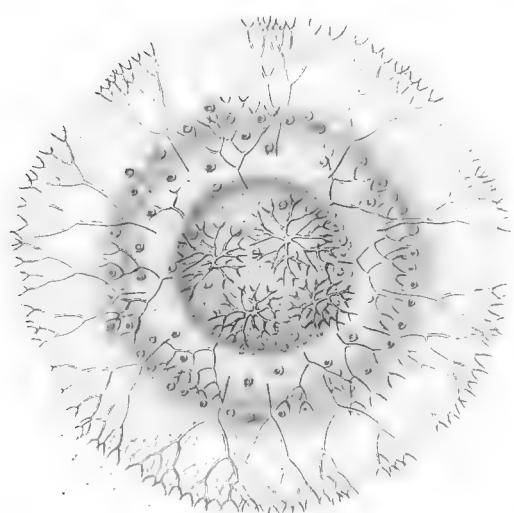
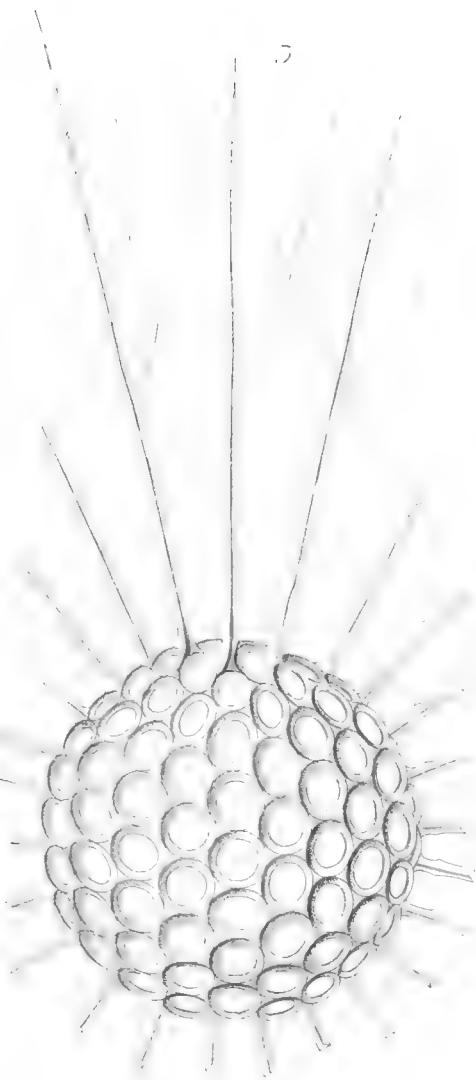
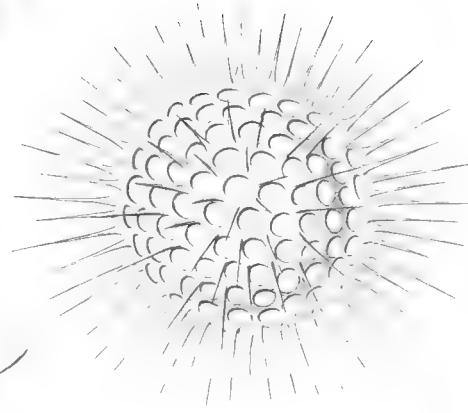
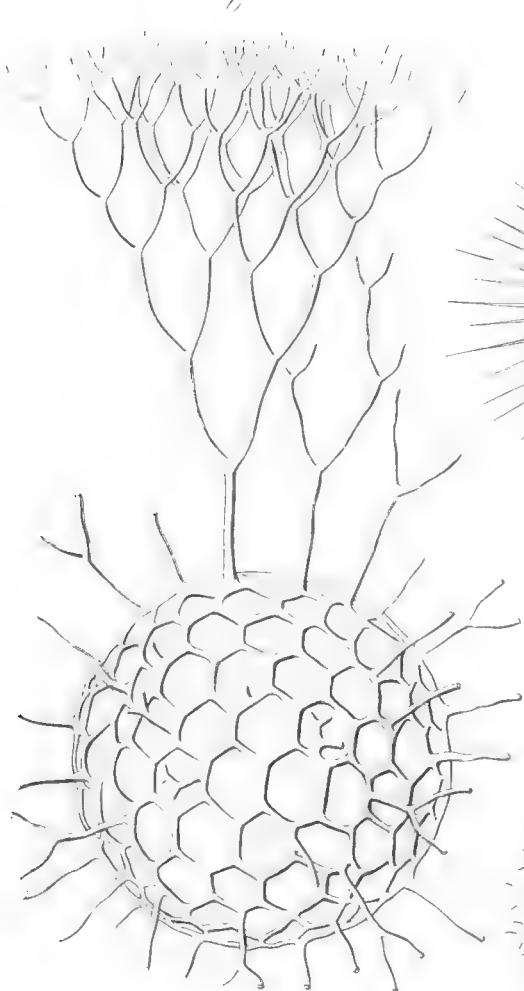
1. *Ethmosphaera siphonophora*, Hkl; 2. *Cyrtidiosphaera reticulata*, Hkl. 3. 4. *Arachnosphaera*,
5. *A. oligocantha*, Hkl. 4. *A. myriacantha*, Hkl. 5. 6. *Aulosphaera elegantissima*, Hkl.



1 Thalassosphaera bifurca, Pl. 2 Zygostephanus Müller, Pl. 5-6 Dictyocha Messanensis, Pl. 7 Petalospyris arachnoides, Pl.

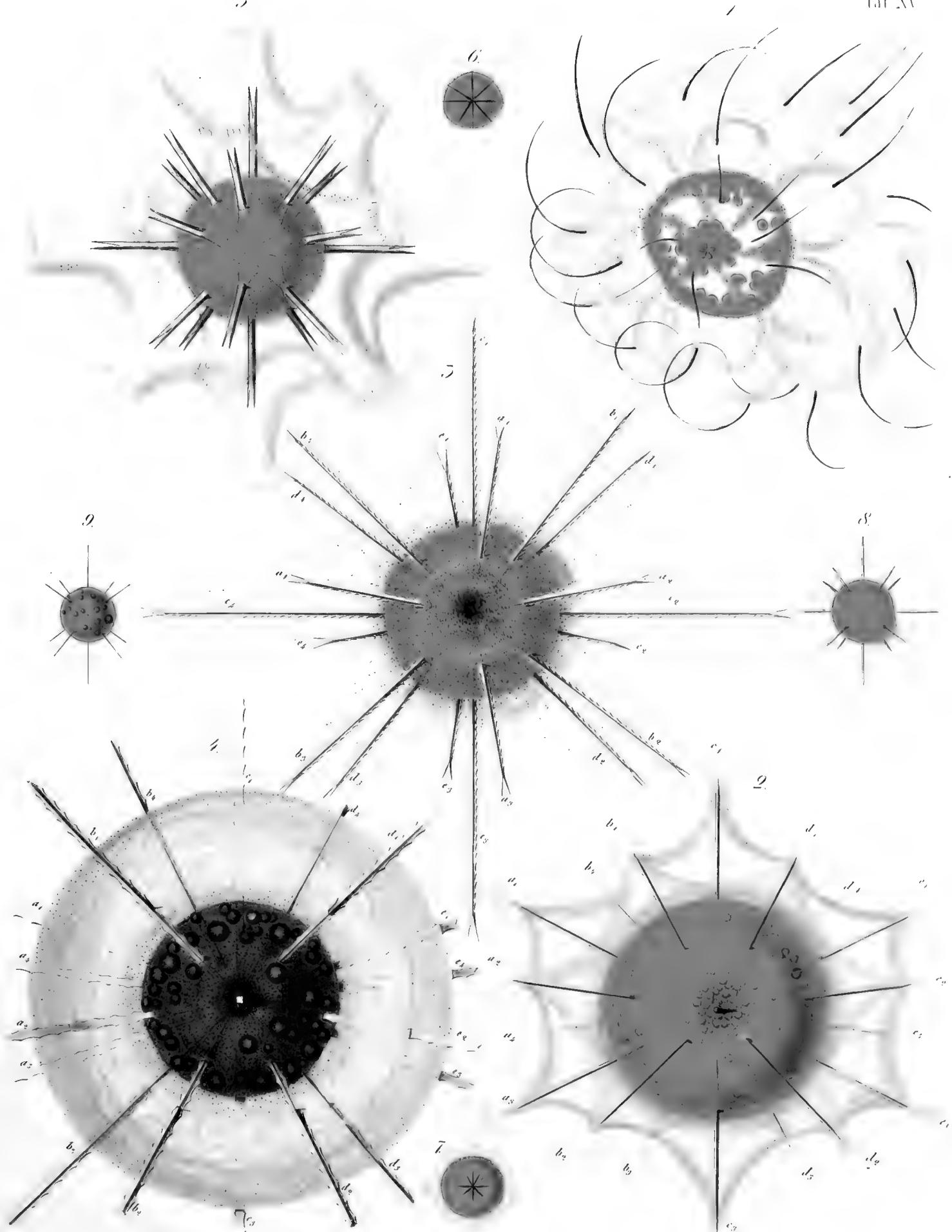
8-9 Spiridobothrys Timacra, Pl. 10 Botryocampe hexathalamia, Pl. 11-15 Spongiosphaera helioides Pl. 14-15 Spongodiscus Mediterraneanus, Pl.

1-4. *Coelodendrum ramosissimum*, Hkl. 5, 6. *Rhaphidococcus simplex*, Hkl. 7-10. *Cladococcus*.7, 8. *C. bifurcatus*, Hkl. 9. *C. spinifer*, Hkl. 10. *C. dentatus*, Hkl.

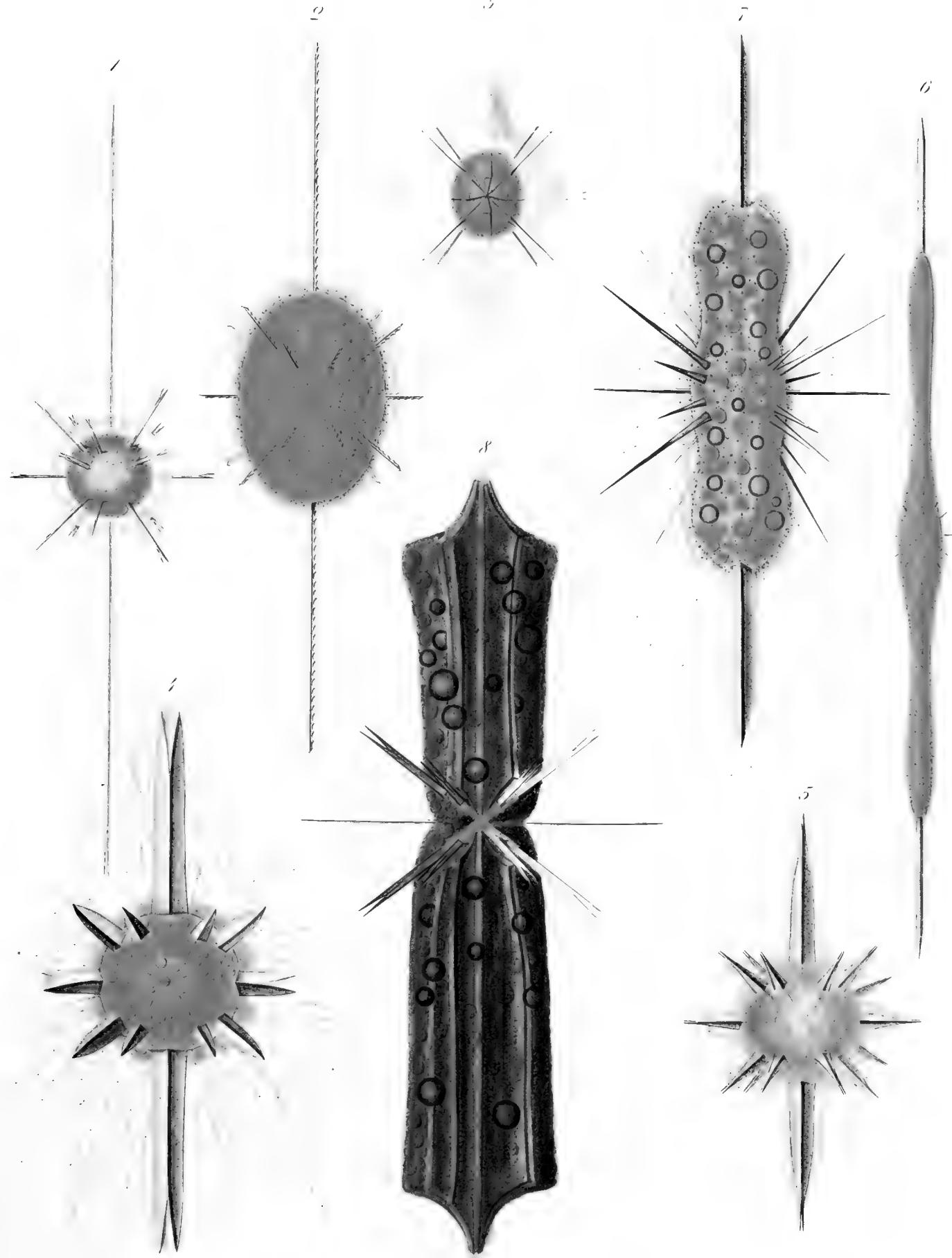


1. *Rhaphidococcus acutifer*, Hkl. 2-6. *Cladococcus*.

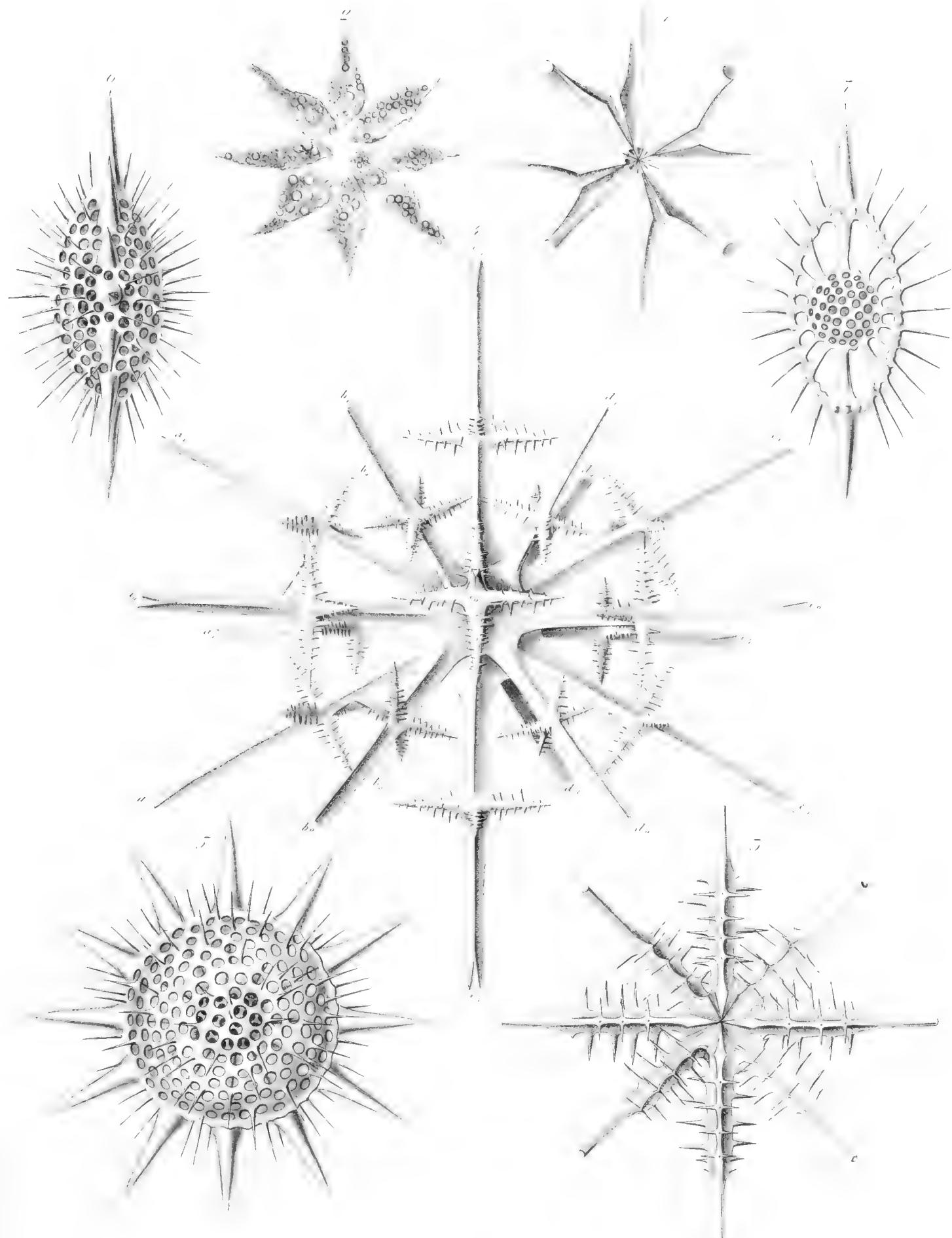
2-5. *C. viminalis*, Hkl. 4-6. *C. cervicornis*, Hkl.



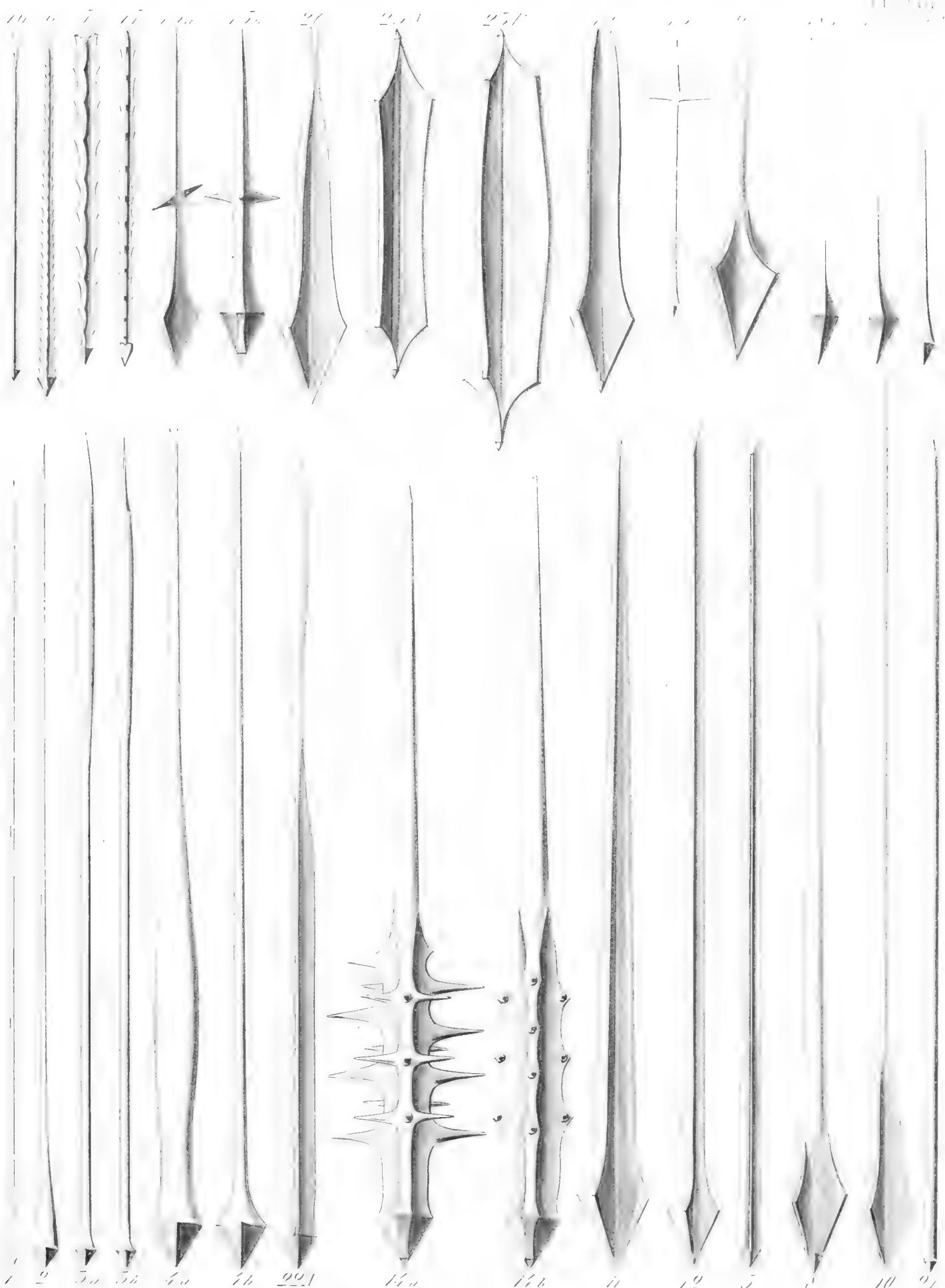
1-9. Acanthometra. 1. *A. elastica*, Hkl. 2. *A. bulbosa*, Hkl. 5. *A. Mülleri*, Hkl.
4. *A. fragilis*, Hkl. 5. *A. brevispina*, Hkl. 6-9. Acanthometrae juvenes.



1-8. *Amphilonche*. 1. *A. tenuis*, Hkl. 2. *A. denticulata*, Hkl. 3. *A. complanata*, Hkl. 4. *A. Messanensis*, Hkl.
5. *A. tetraptera*, Hkl. 6. *A. belonoides*, Hkl. 7. *A. heteracantha*, Hkl. 8. *A. anomala*, Hkl.

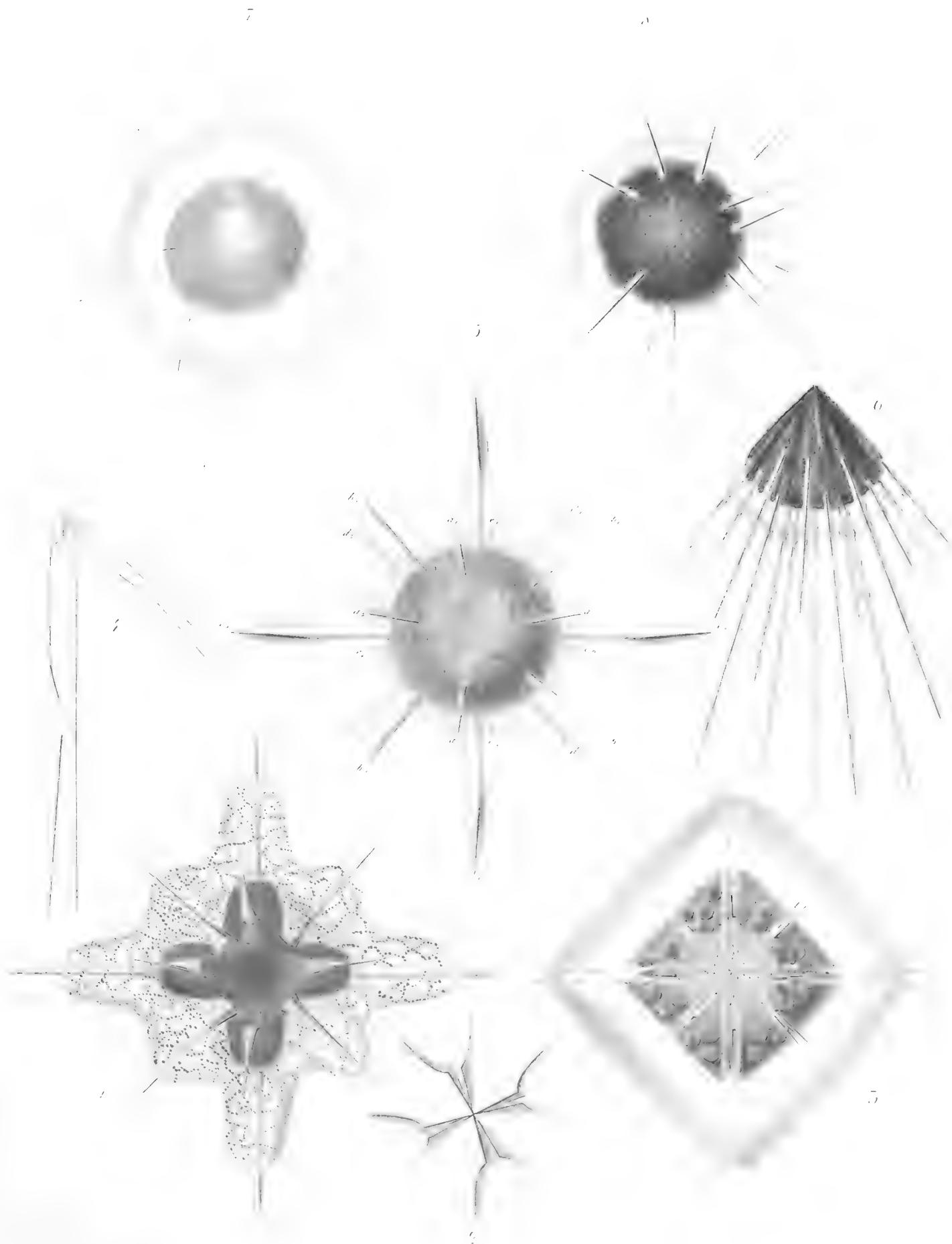


1. 2. *Acanthometra Sicula*, Hkl. 3. 4. *Niphacantha*. 5. *X. serrata*, Hkl.
6. *X. spinulosa*, Hkl. 5-7. *Heliodiscus Phaeodiscus*, Hkl.

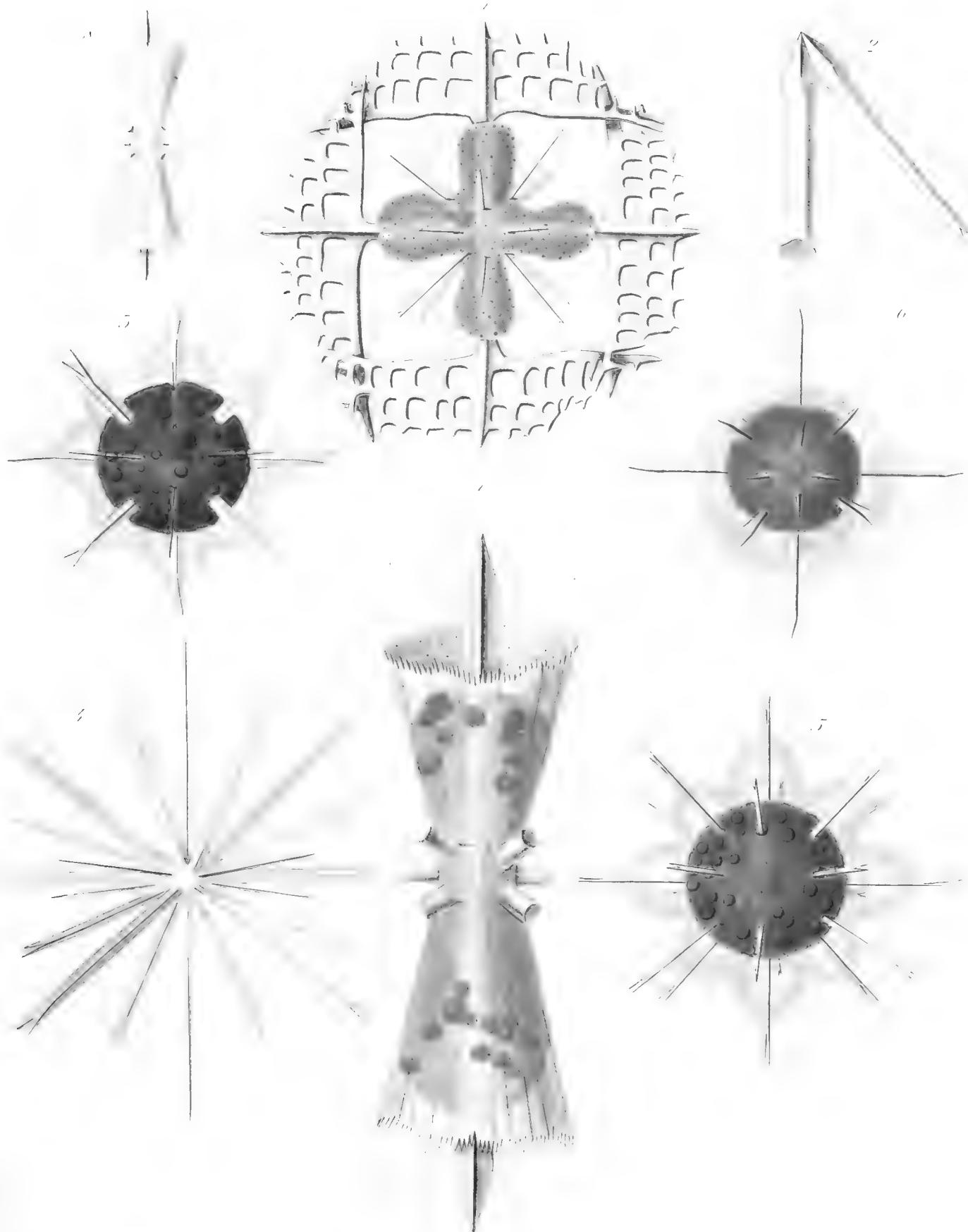


1-25. Aculei Acanthostauridum, 1-12. Generis Acanthometrae.

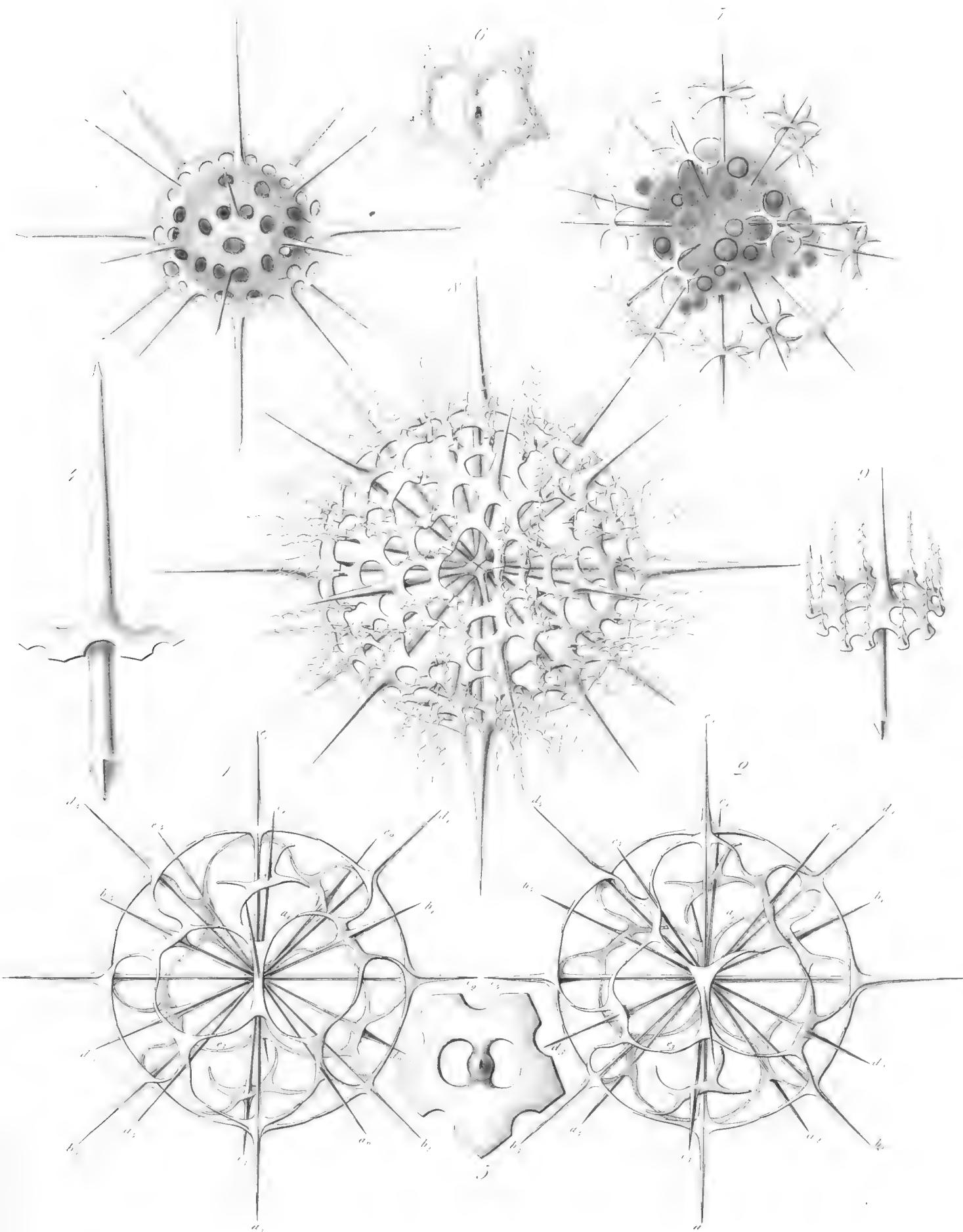
13-15. Generis Xiphacanthae, 16-25. Generis Amphitrichae.

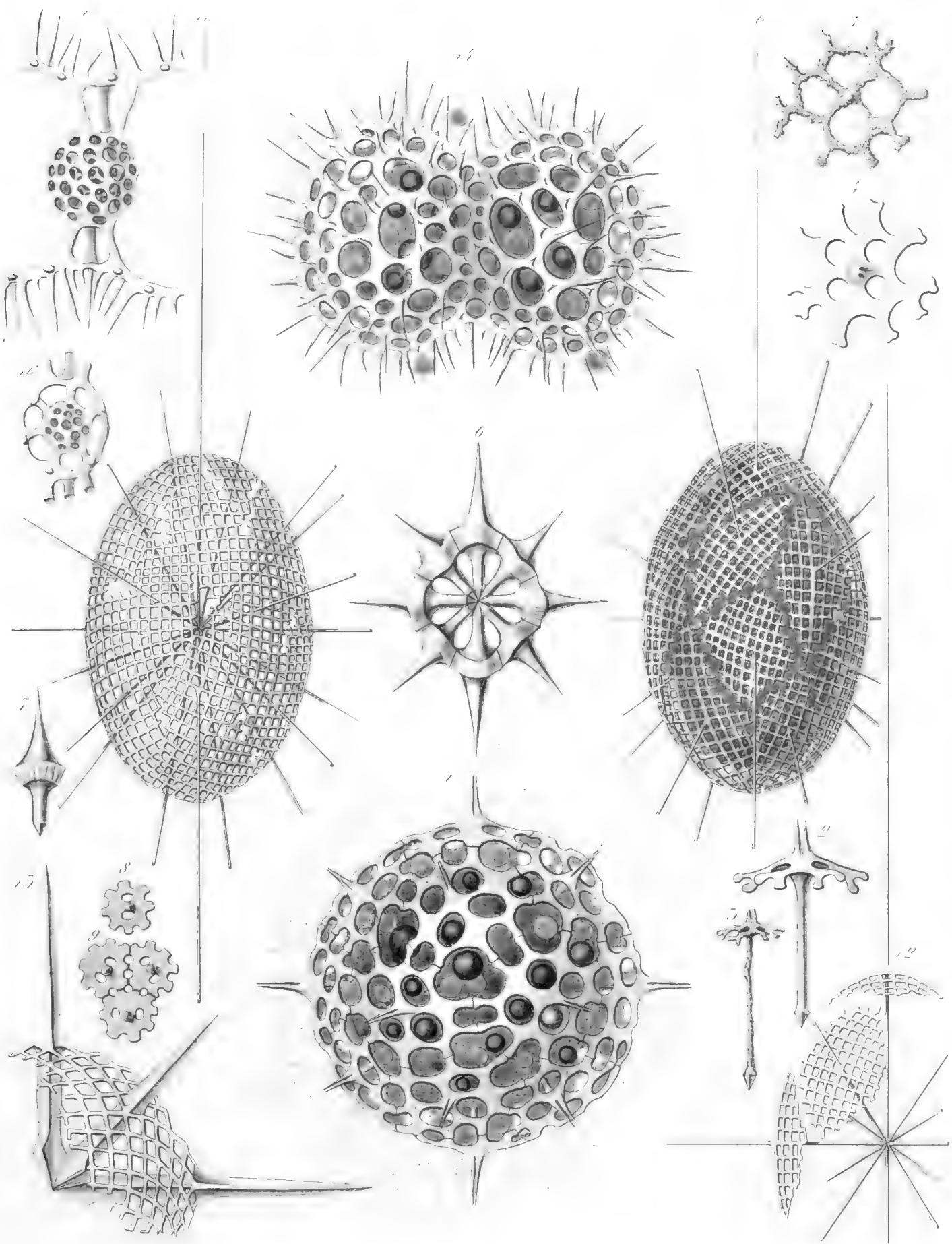


1-5. *Acanthostaurus*. 1, 2. *A. purpurascens*, Hkl. 5, 4. *A. Forceps*, Hkl. 5. *A. hastatus*, Hkl.
6. *Litholophus Rhopidium*, Hkl. 7, 8. *Acanthochiasma*. 7. *A. Krohnii*, Hkl. 8. *A. fusiforme*, Hkl.

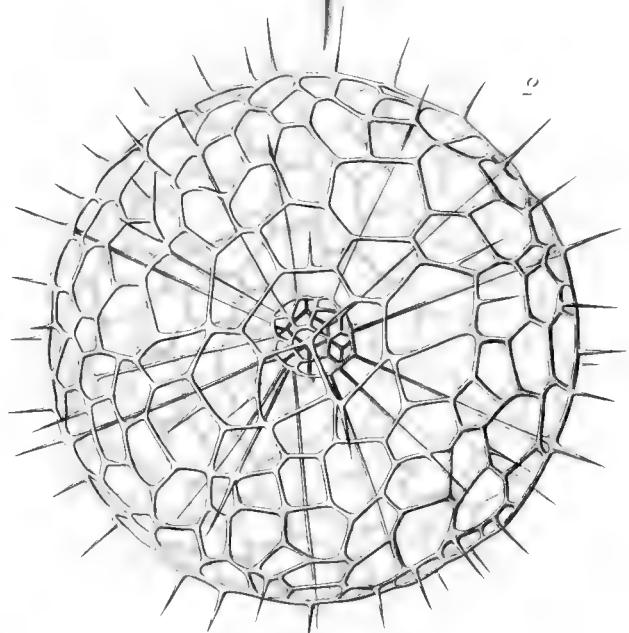
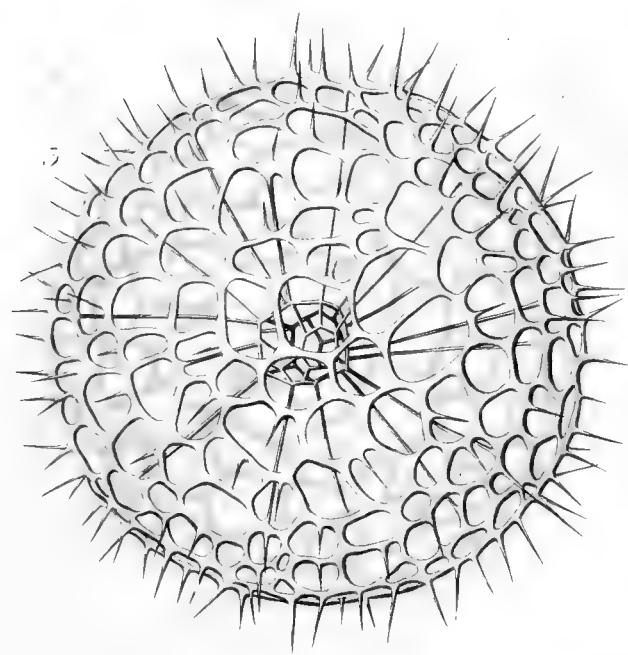
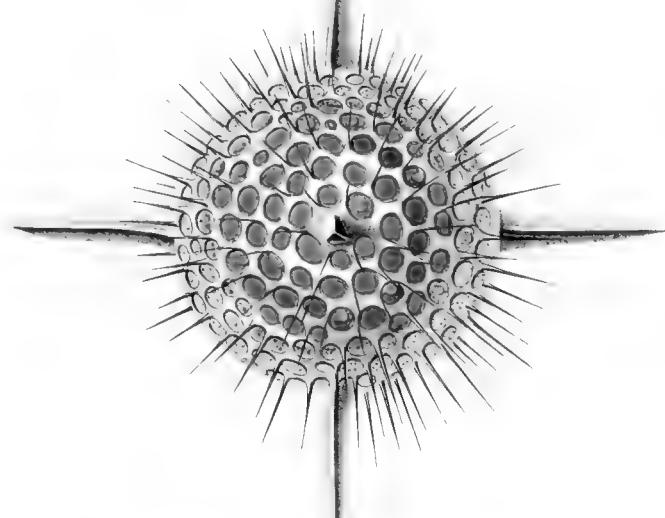
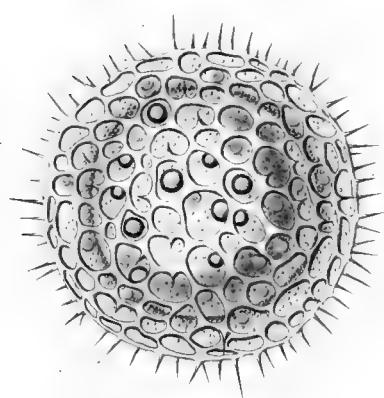
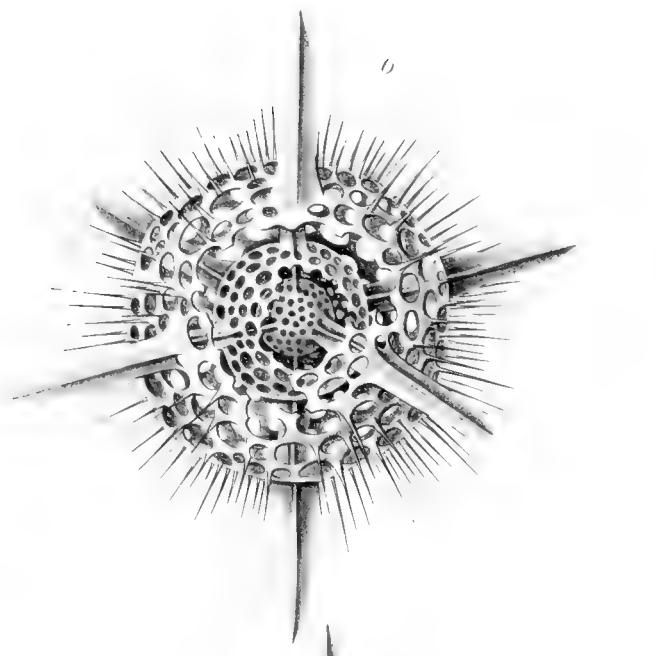
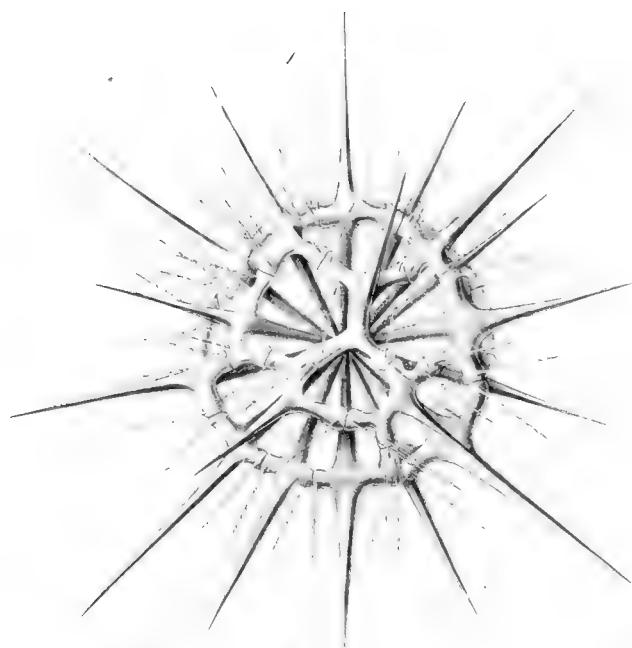


1-2. *Lithoptera* Müller, Hkl. 3-6. *Astrolytium*. 5-4. *A. dicopum*, Hkl.
5. *A. bifidum*, Hkl. 6. *A. cruciatum*, Hkl. 7-8. *Diplocomus* Fasces, Hkl.

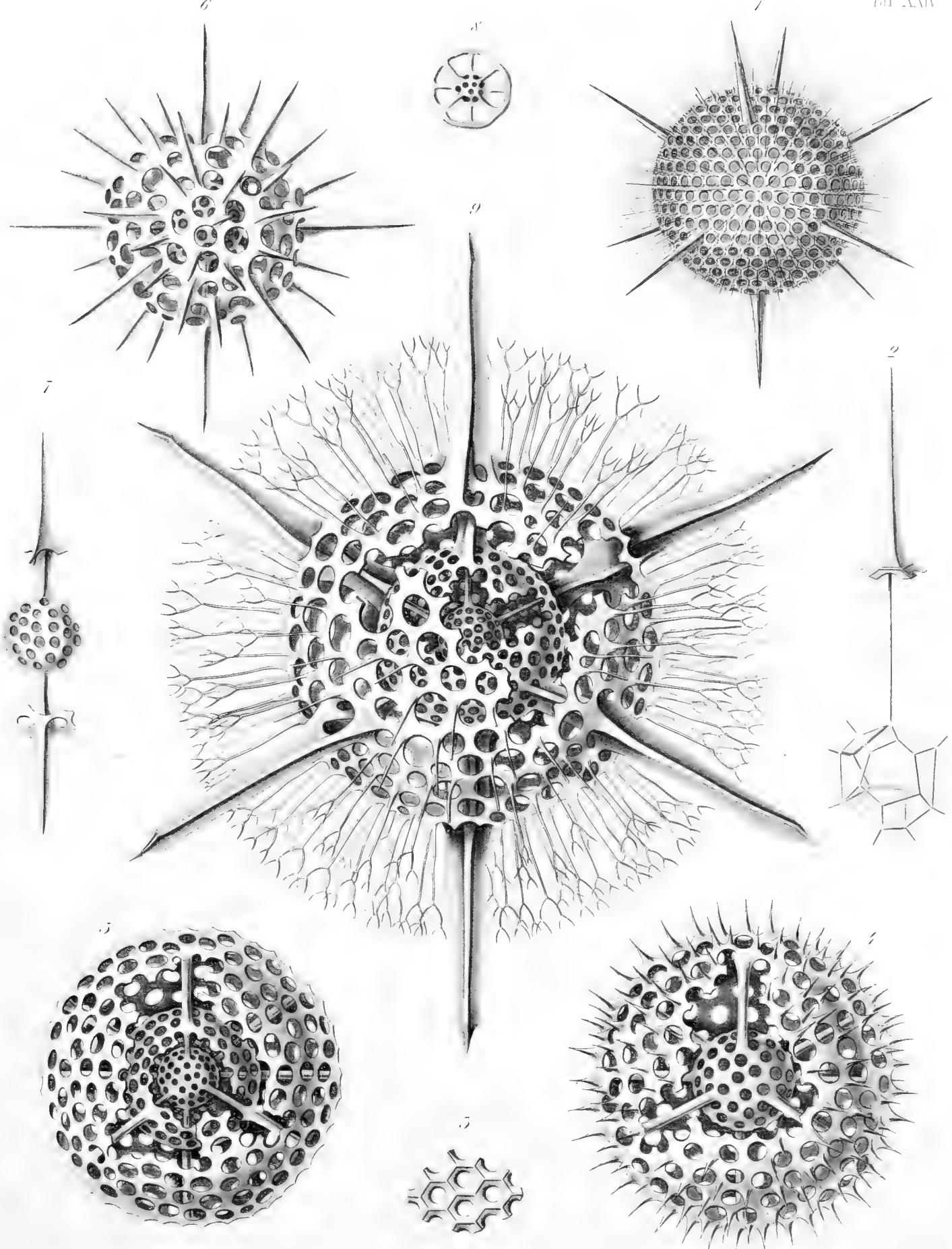
1-3. *Dorataspis*, 1-2. *D. bipennis*, Hkl., 3-6. *D. loricata*, Hkl.7-9. *D. polyancistra*, Hkl.



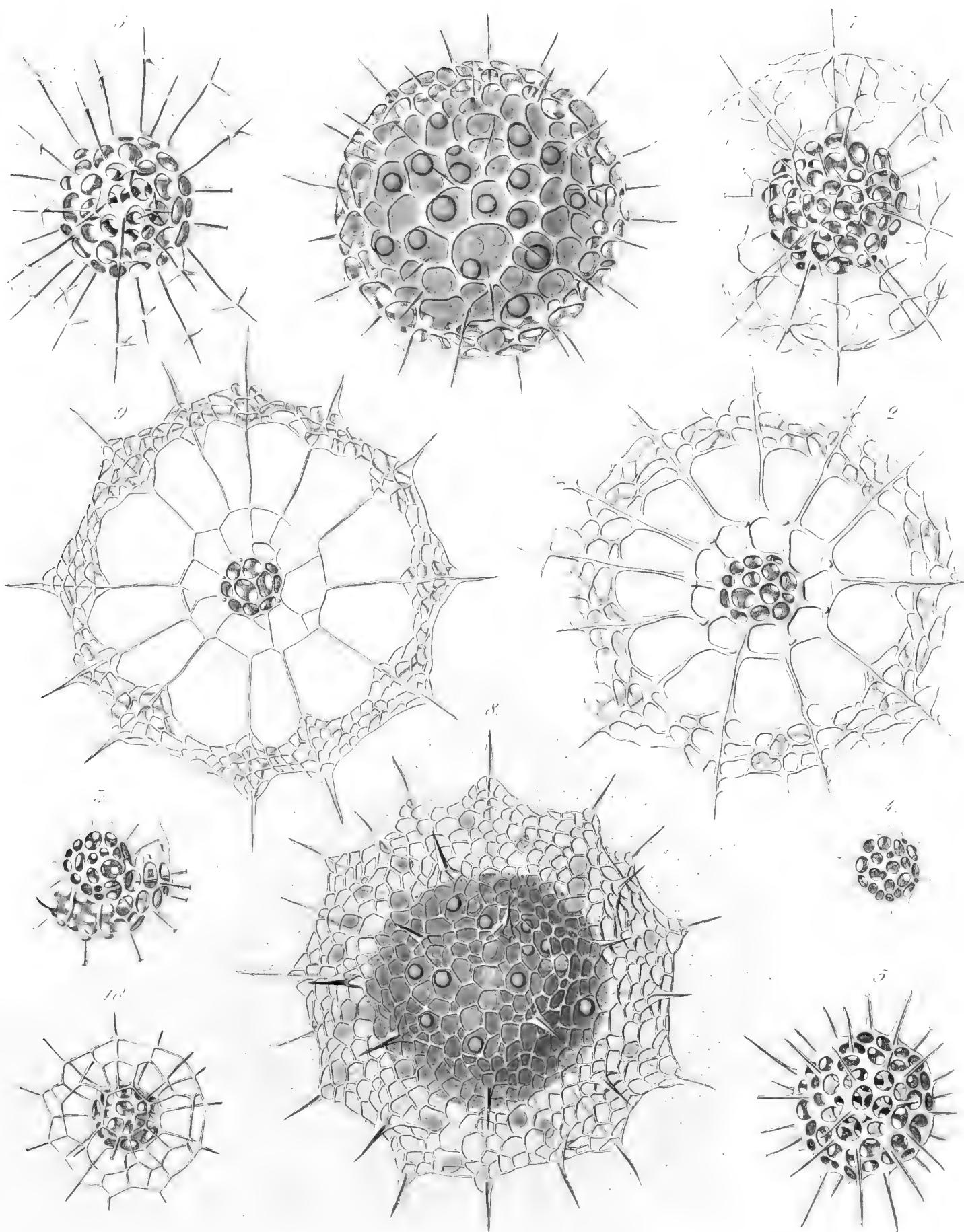
1-9. Dorataspis. 1-5. D. Diodon, Hkl. 6-9. D. solidissima, Hkl. 10-13. Haliommatidium.
10-12. H. Mülleri, Hkl. 15. H. tetragonopum, Hkl. 14-16. Didymocystis Ceratospyris.

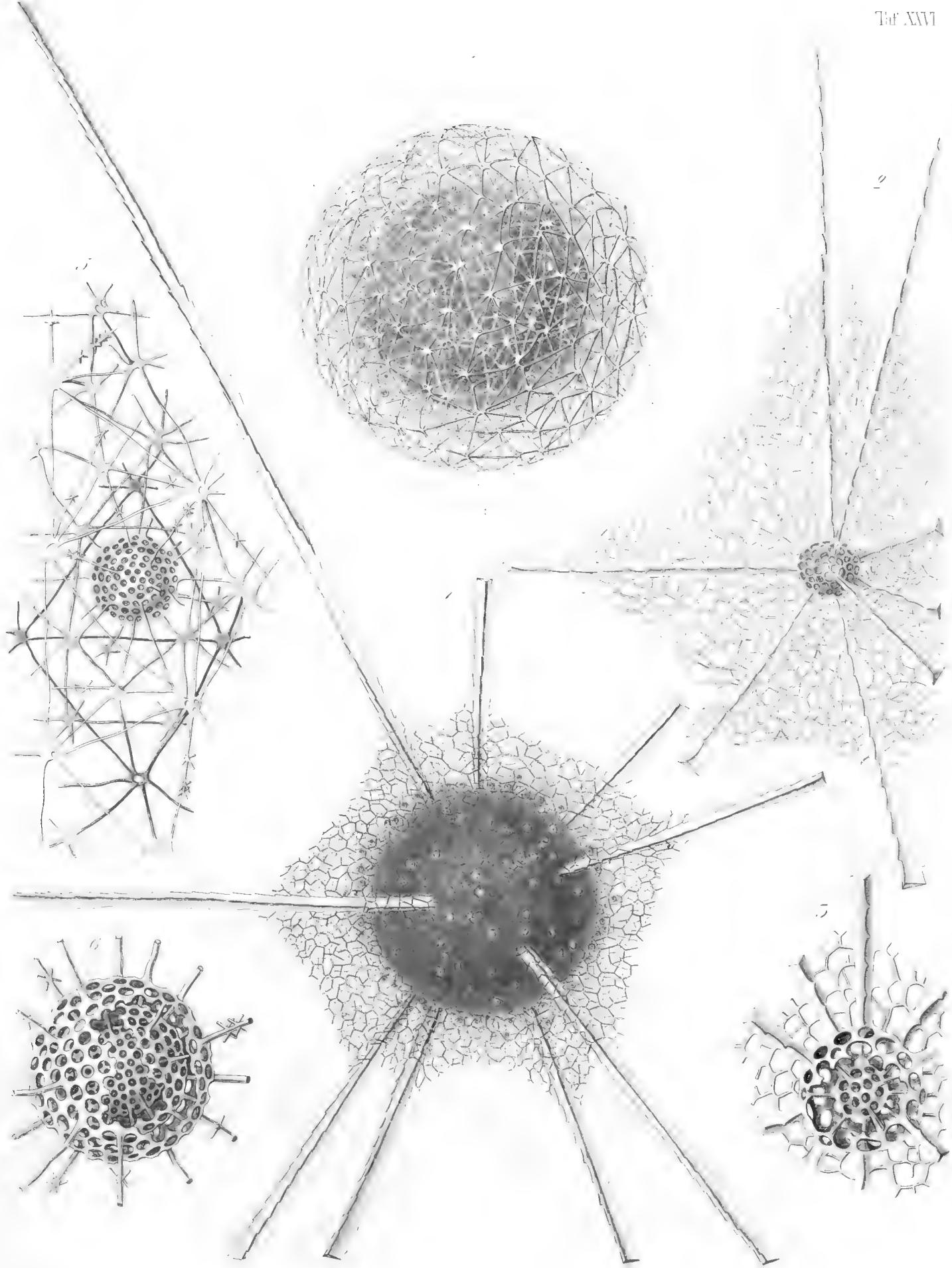


1 Dorataspis costata, Hkl. 2-4. Haliomma. 2. H. capillaceum, Hkl
5. 4 H. Erinaceus, Hkl. 5. 6. Actinomma Asteracanthion, Hkl

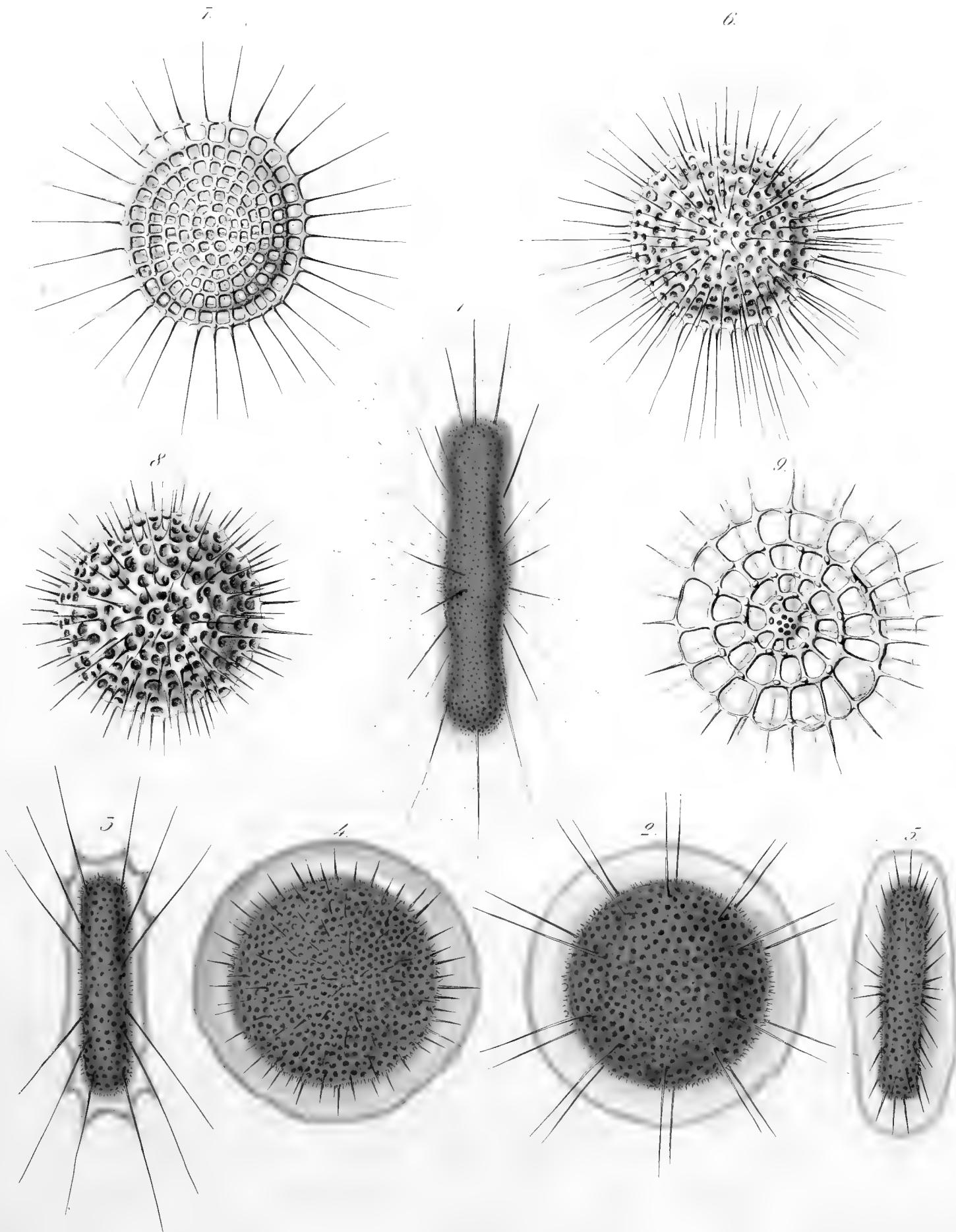


1-4. *Hemicentrotus* 1-5. *H. Echinaster*, Hkl. 4. *H. Castanea*, Hkl. 5-9. *Actinomma*
5. *A. inerme*, Hkl. 6-8. *A. Trinacrum*, Hkl. 9. *A. drymodes*, Hkl.

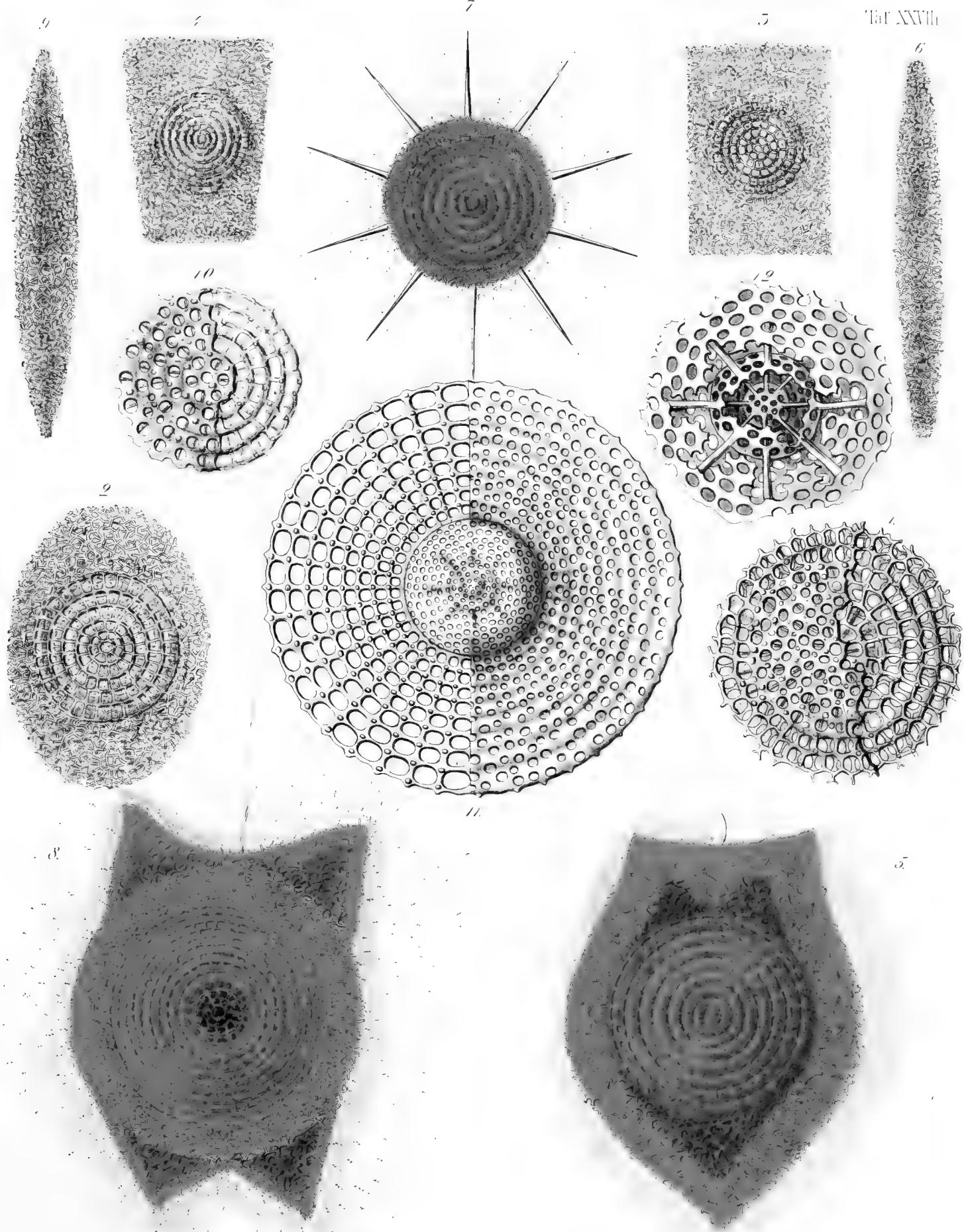
1-10. *Rhizosphaera* 1-7 *R. trigonacantha*, III Kl. 8-10. *R. leptomita*, III Kl.



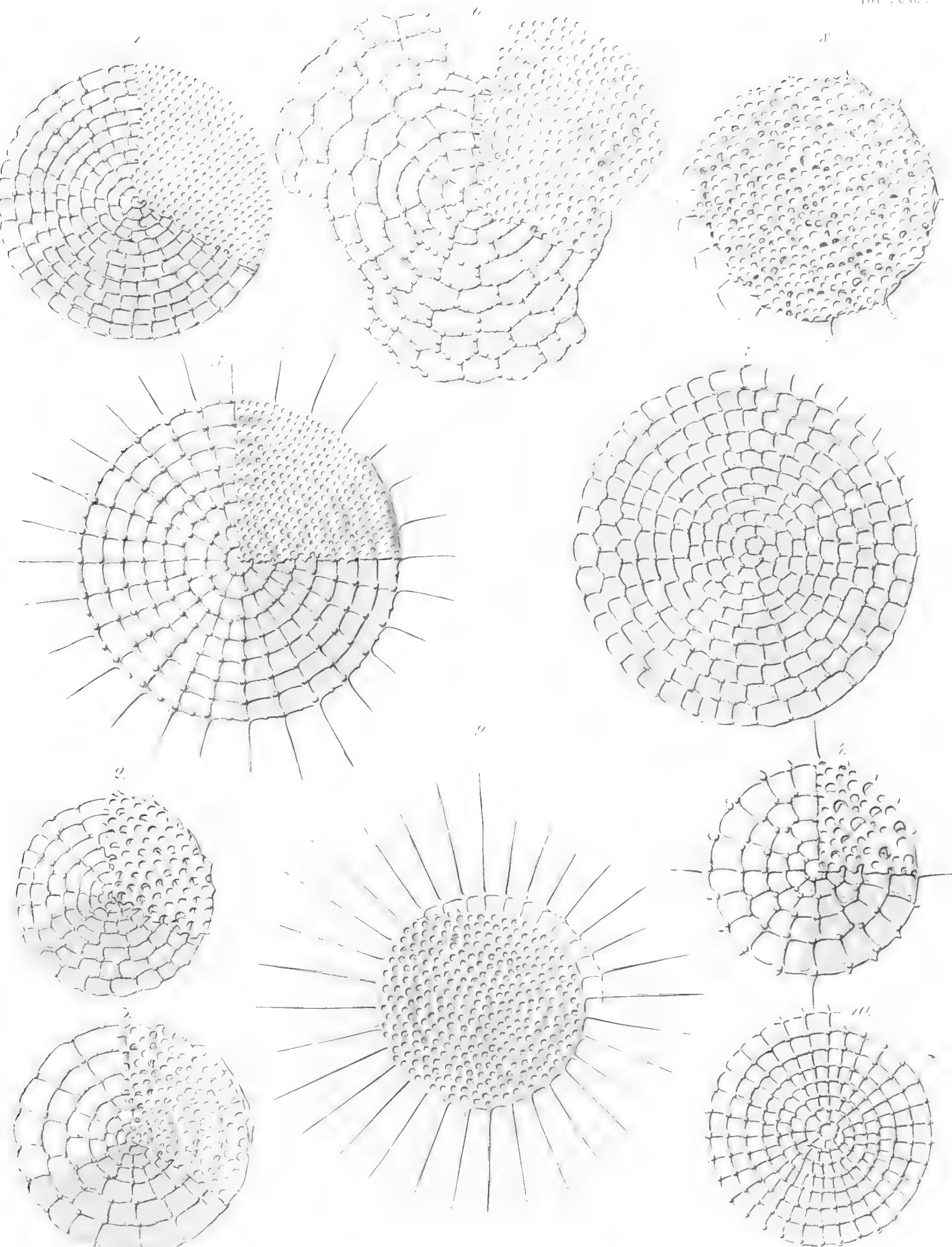
1-3. *Spongphaera streptacantha*, Hil. 4-6. *Dictyosema triquetrum*, Hil.



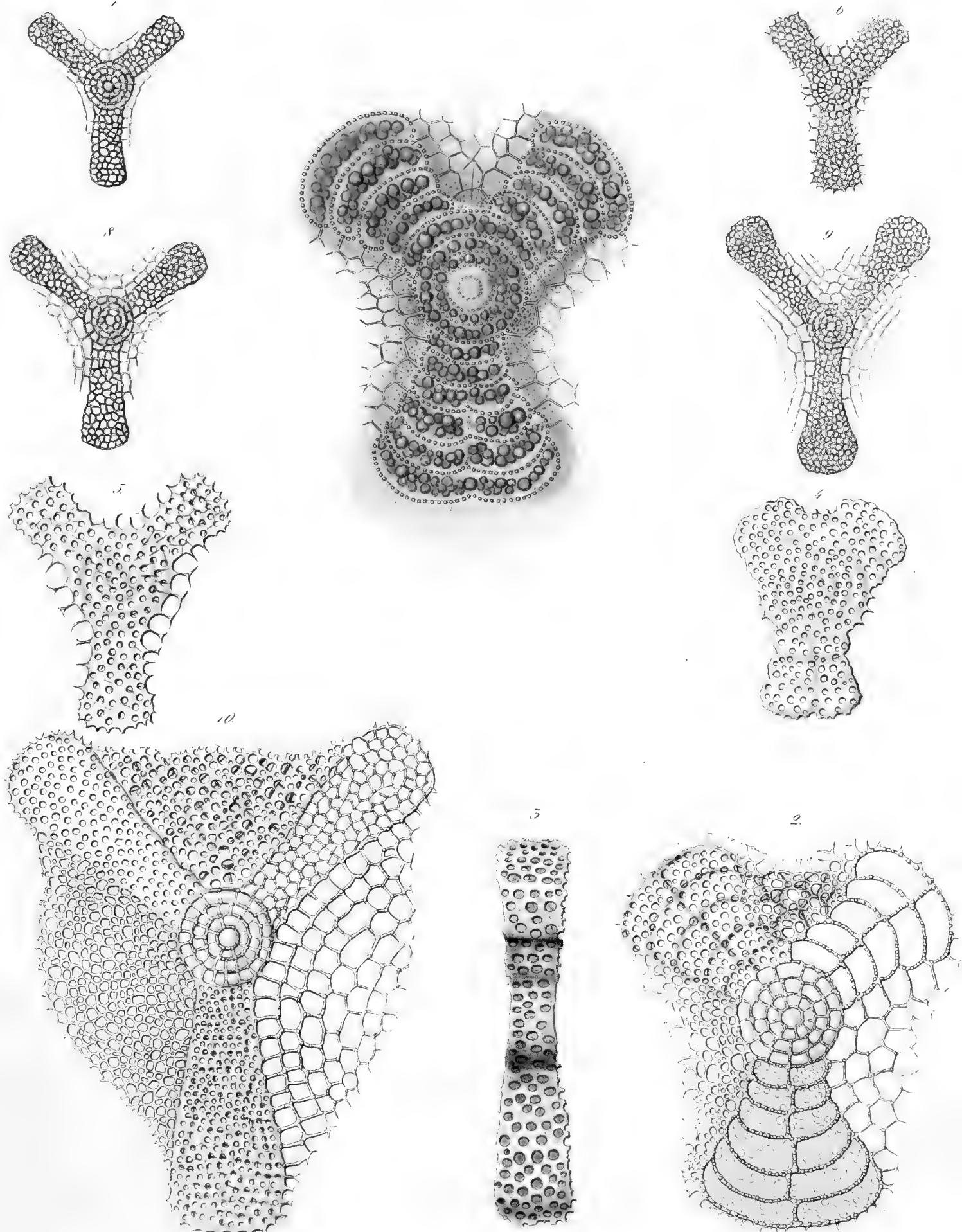
1. *Spongurus cylindricus*, Hkl. 2-5. *Spongotrochus*. 2. 3. *S. longispinus*; Hkl. 4. 5. *S. brevispinus*, Hkl.
6-9. *Lithelius*. 6. 7. *L. spiralis*, Hkl. 8. 9. *L. Alveolina*, Hkl.

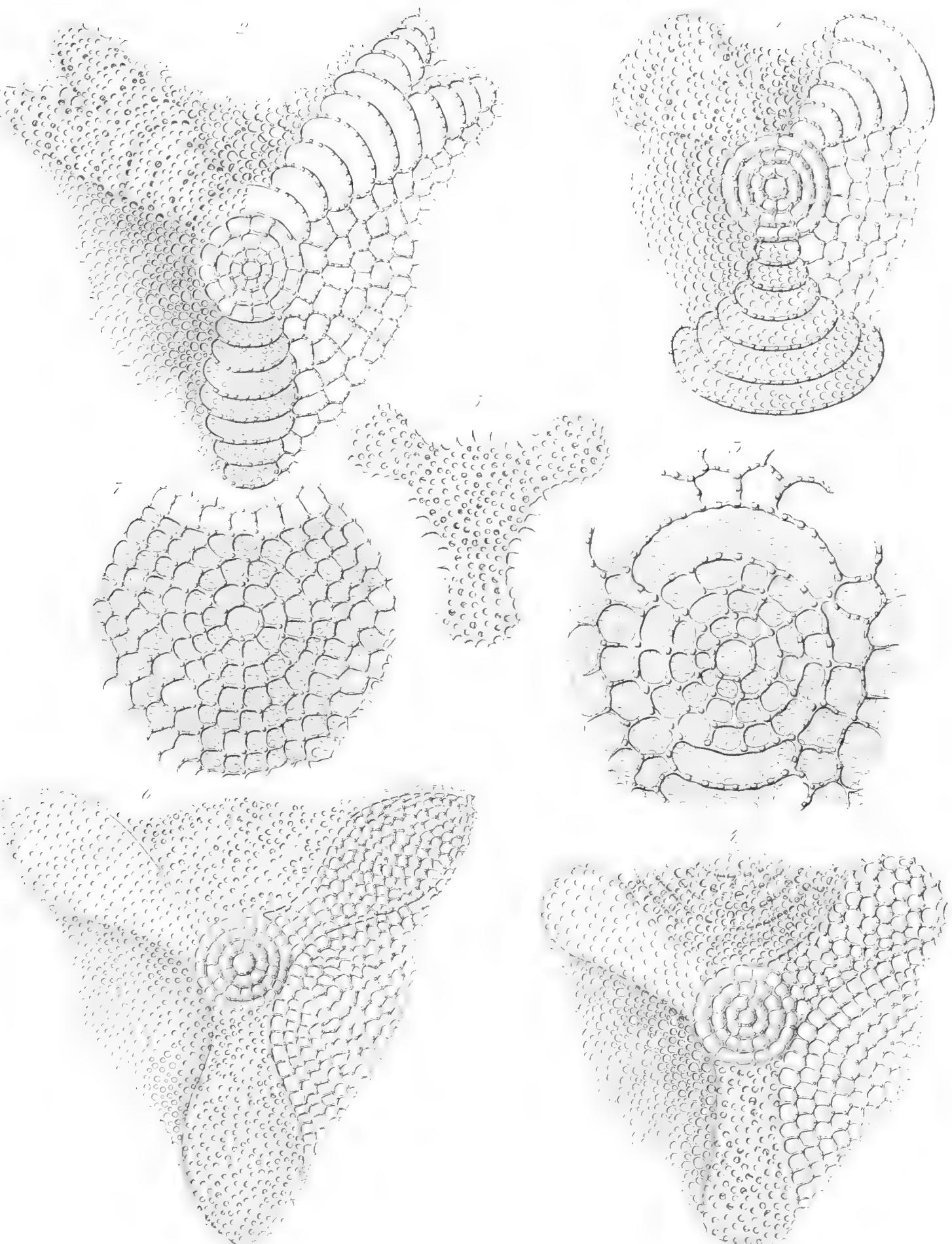


1-6. *Spongocyclia* L. S. *cycloides*, Hkl. 2. *S. elliptica*, Hkl. 3. *S. orthogona*, Hkl. 4. *S. Scyllaea*, Hkl. 5. 6. *S. Charybdaea*, Hkl.
7. *Stylospongia* Huxleyi, Hkl. 8-10. *Spongasteriscus quadricornis*, Hkl. 11. 12. *Coccodiscus Darwinii*, Hkl.

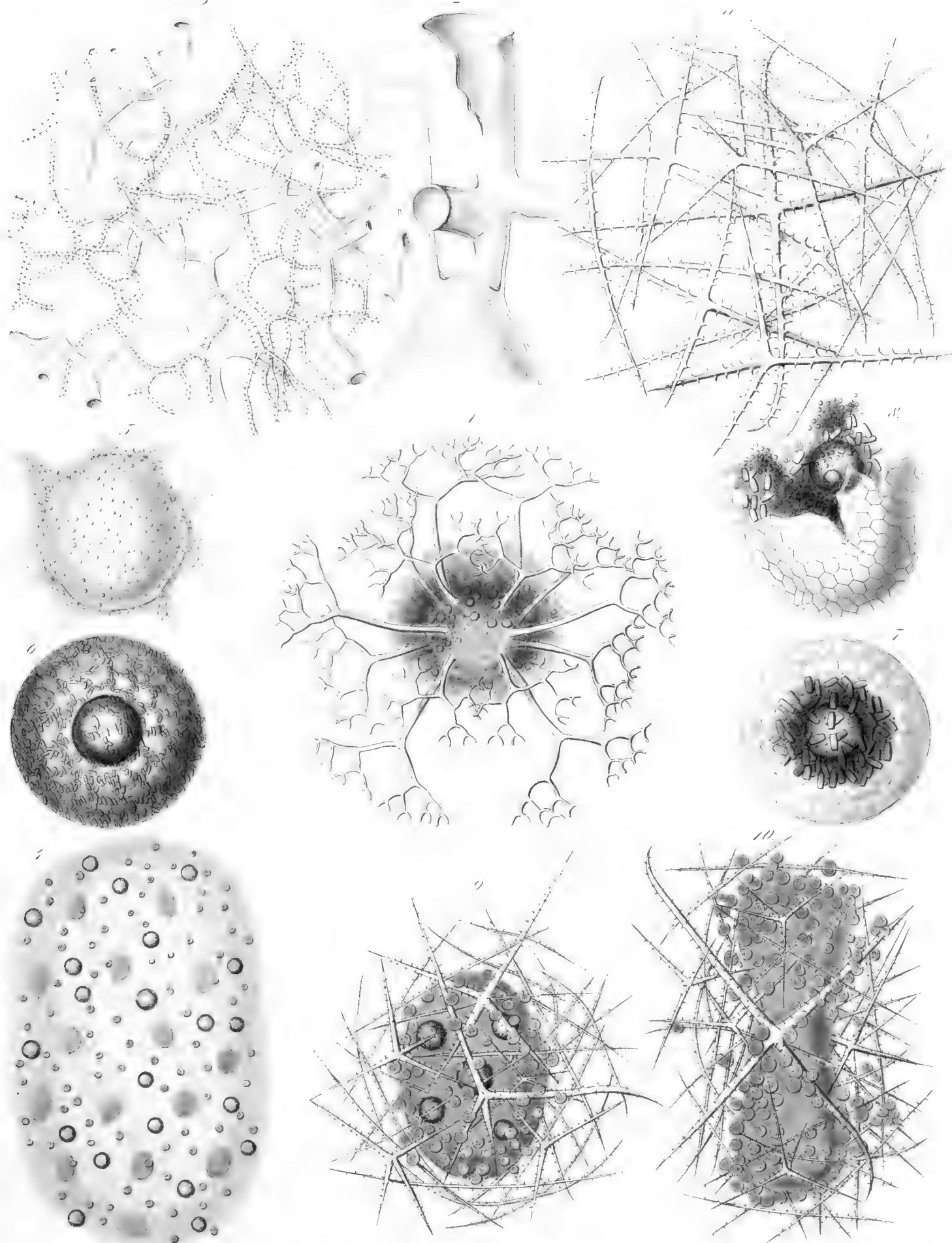


1-5 *Trematodiscus* II. *T. orbiculatus*, IIkl. 2. *T. Sorites*, IIkl. 5' *Heterocyclus*, IIkl. 4, 5. *Stylocidya*, 4. *S. quadrispina*, IIkl.
5. *S. multispina*, IIkl. 6. *Rhopalastrum truncatum*, IIkl. 7. 8. *Discospira*, 7 *D. helicoides*, IIkl. 8. *D. Operculina*, IIkl. 9, 10 *Stylopygus* *Dugardini* IIkl.

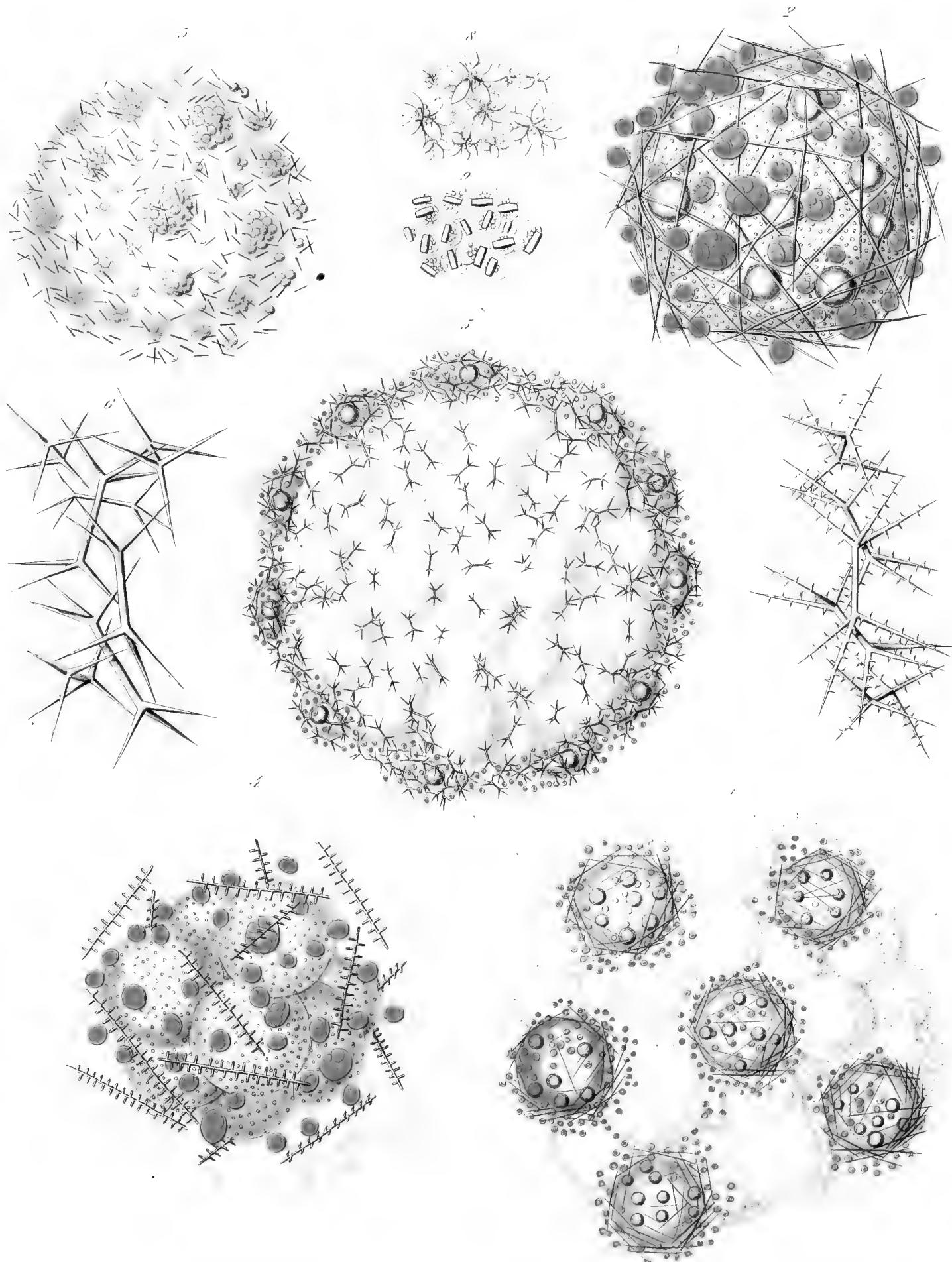
1-10. *Euchitonia*. 1-4. *E. Virchowii*, Hkl. 5-10. *E. Mülleri*, Hkl.

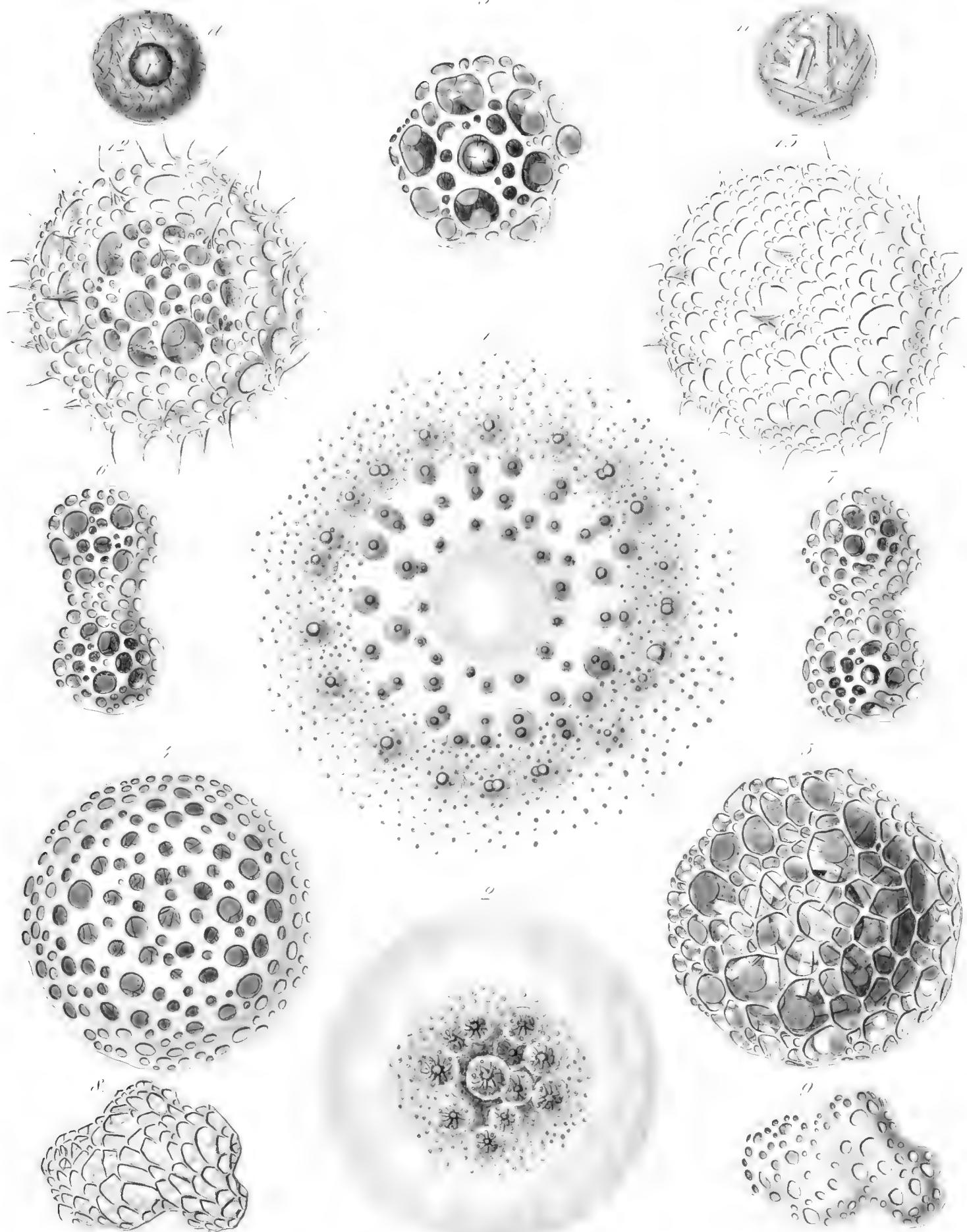


1-7. *Echitonida* 1 E. Beckmanni, Hkl. 2, 5. E. tienensis, Hkl.
4, 6. E. Leydigi, Hkl. 7. E. Kollikeri, Hkl.

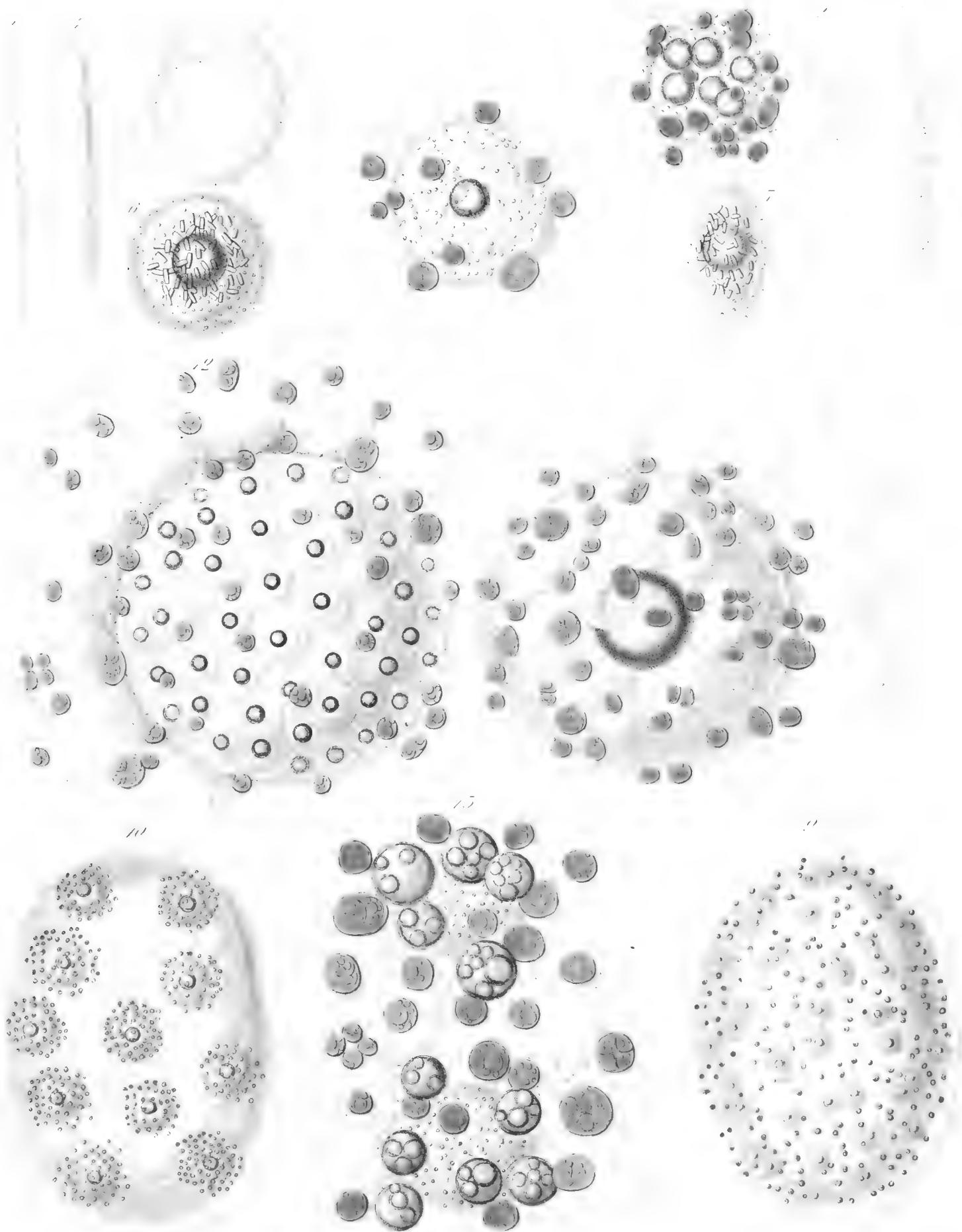


1-3. *Coelodendrum gracillimum*, Hkl. 4-8. *Collozoum*. 4-5. *C. pelagicum*, Hkl.
6-8. *C. coeruleum*, Hkl. 9-11. *Rhaphidozoum aciferum*, Hkl.

1-9. *Sphaerozous*. 1, 2. *S. italicum*, Hkl. 5, 4. *S. spinulosum*, Müller.5-6. *S. ovodimare*, Hkl. 7-9. *S. pinnatum*, Müller.



1-15. *Collosphaera*. 1-11. *C. Huxleyi*, Müller. 12-15. *C. spinosa*, Hkl.

114. *Collozoum merme*, Ill.



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