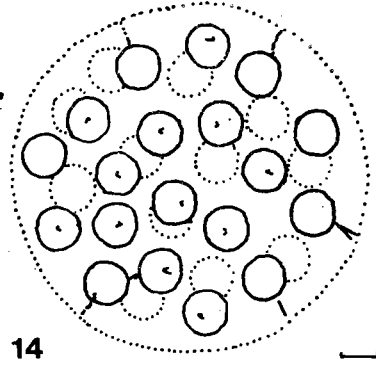
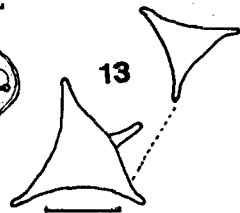
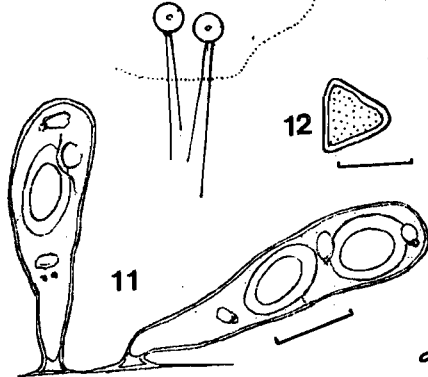
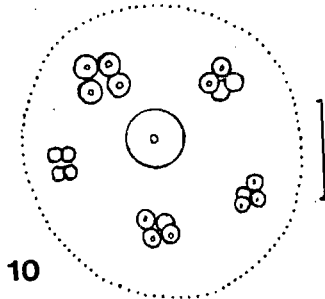
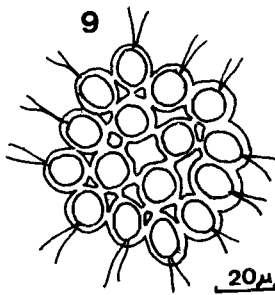
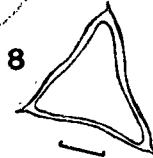
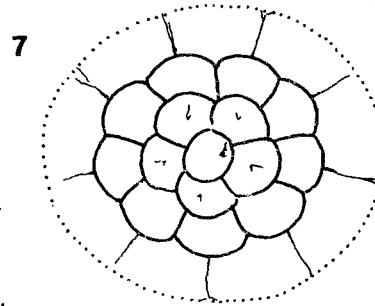
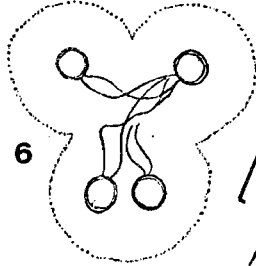
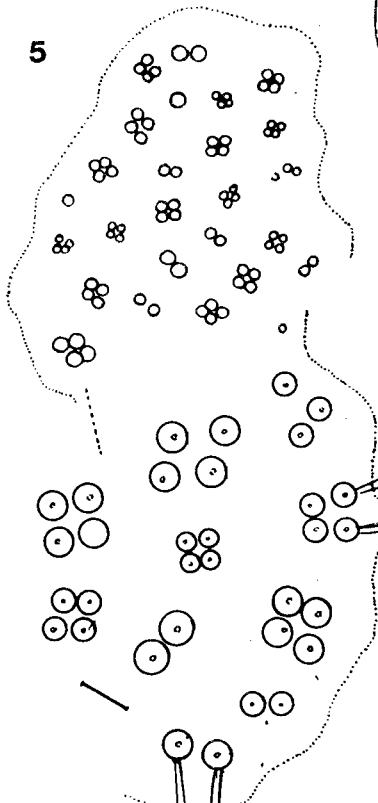
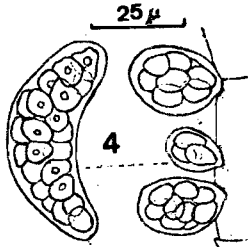
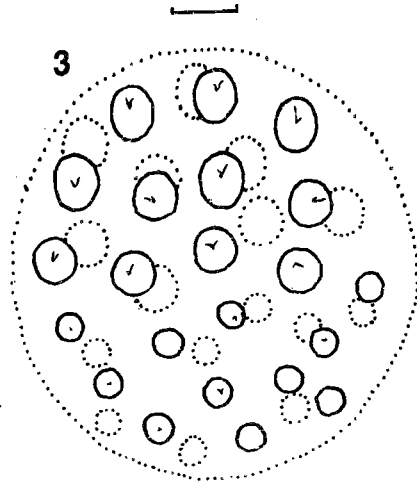
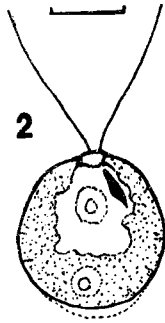
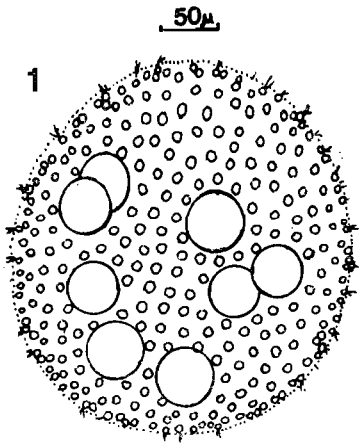


ICONOGRAFIA

Con excepción de los casos indicados, las escalas que figuran al lado de los dibujos corresponden a 10 μ .

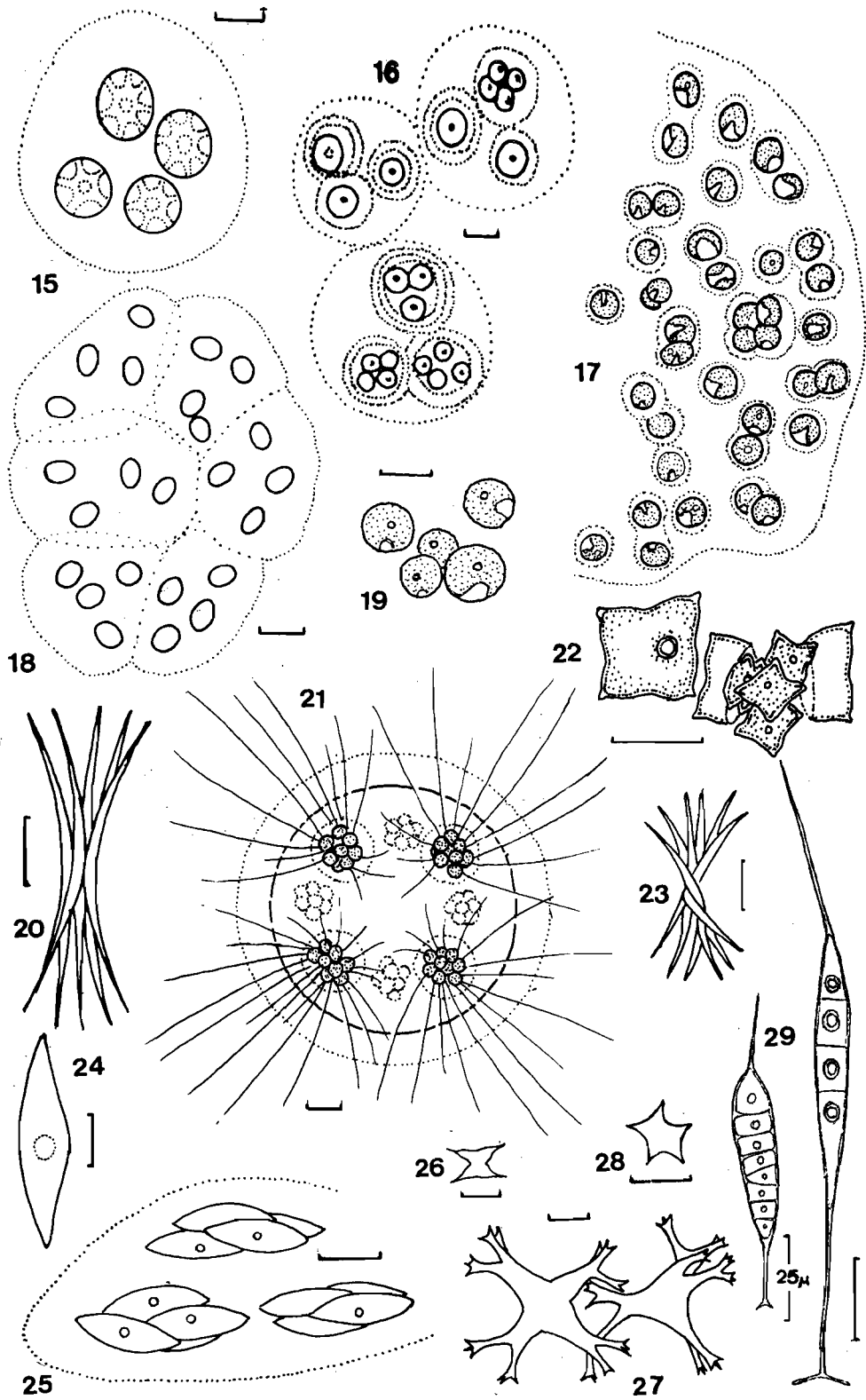
LAMINA I

1. *Volvox tertuis* A. MEYER (según YACUBSON)
2. *Chlamydomonas* sp. (*Chl. incerta* PASCH., s/PASCHER)
3. *Pleodorina californica* SHAW (s/YACUBSON)
4. *Chlorangium moinae* (KORSCH.) E TTL. (s/MARGALEF)
5. *Tetraspora lacustris* LEMM. (s/YACUBSON)
6. *Dictyosphaerium pulchellum* WOOD (s/MARGALEF)
7. *Pandorina morum* (MÜLLER) BORY (s/YACUBSON)
8. *Tetraedron trigonum* (NÄG.) HANSG. (s/DEFLANDRE)
9. *Gonium pectorale* MÜLLER (s/PRESCOTT)
10. *Sphaerocystis schroeteri* CHOD. (s/YACUBSON)
11. *Rhopalosolen saccatus* FOTT (s/MARGALEF)
12. *Tetraedron muticum* var. *punctulatum* (REINSCH) DE TONI (s/GESSNER)
13. *Tetraedron regulare* KÜTZ. (s/YACUBSON)
14. *Eudorina elegans* EHR. (s/YACUBSON)



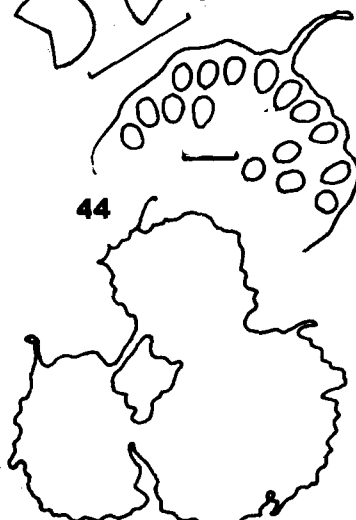
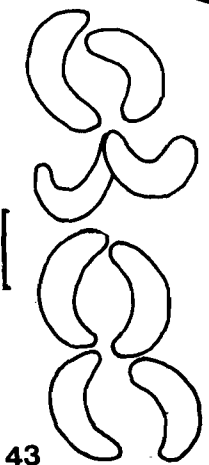
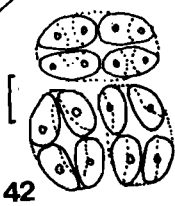
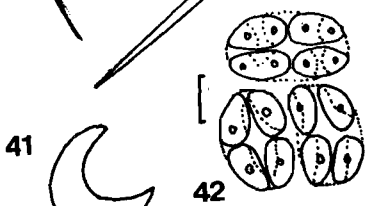
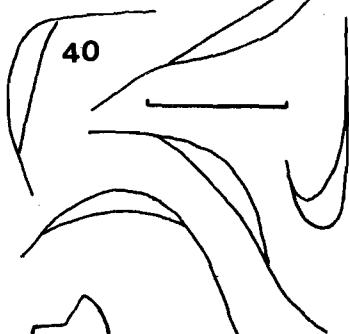
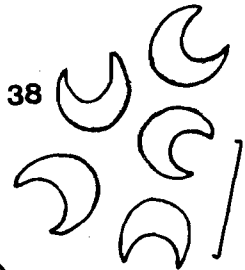
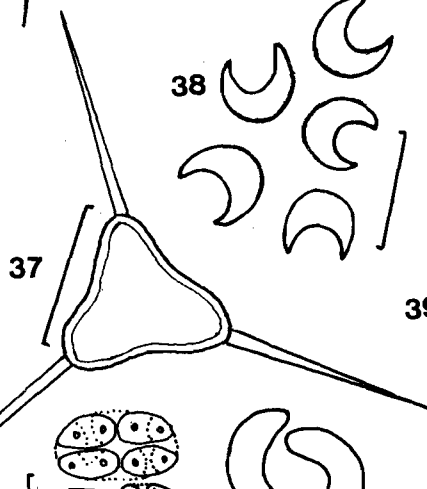
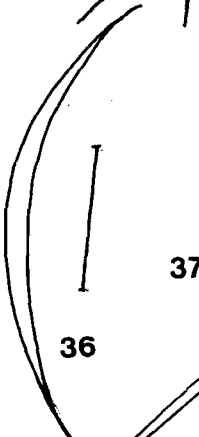
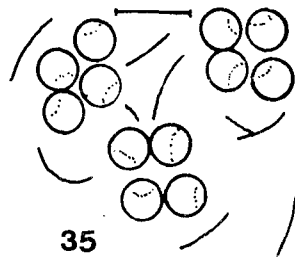
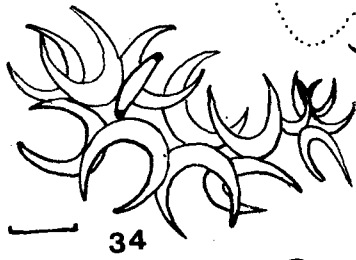
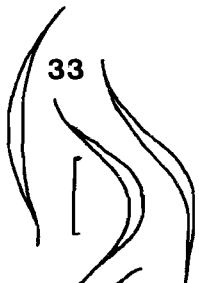
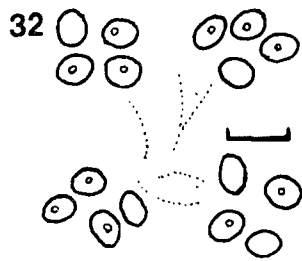
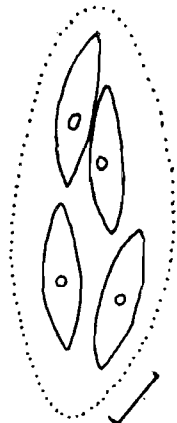
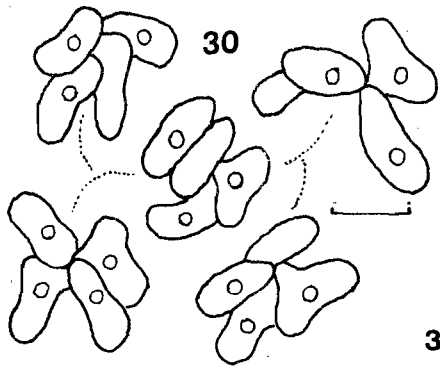
LAMINA II

15. *Asterococcus limneticus* G. M. SMITH (según YACUBSON)
16. *Gloeocystis gigas* (KÜTZ.) LAGERH. (s/YACUBSON)
17. *Palmella* sp. (*P. mucosa* KÜTZ., s/PRESCOTT)
18. *Gloeocystis ampla* (KÜTZ.) LAGERH. (s/YACUBSON)
19. *Chlorococcum* sp. [*Chl. humicola* (NÄG.) RAB., s/PRESCOTT]
20. *Ankistrodesmus falcatus* (CORDA) RALFS (s/YACUBSON)
21. *Paulschulzia pseudovolvor* (SCHULZ. em. TEIL.) SKUJA (s/SKUJA)
22. *Tetraedron minimum* (A. BR.) HANSG. (s/BOURRELLY)
23. *Ankistrodesmus spiralis* (TURNER) LEMM. (s/YACUBSON)
24. *Ankistrodesmus braunii* (NÄG.) BRUNNTH. (s/YACUBSON)
25. *Quadrigula venezuelica* YACUBSON (s/YACUBSON)
26. *Tetraedron regulare* var. *incus* TEIL. fa. (s/DEFLANDRE)
27. *Tetraedron limneticum* BERGE (s/TIFFANY)
28. *Tetraedron caudatum* (CORDA) HANSG. (s/GESSNER)
29. *Lambertia setosa* (FILARSZ.) LORCH (s/MARGALEF)



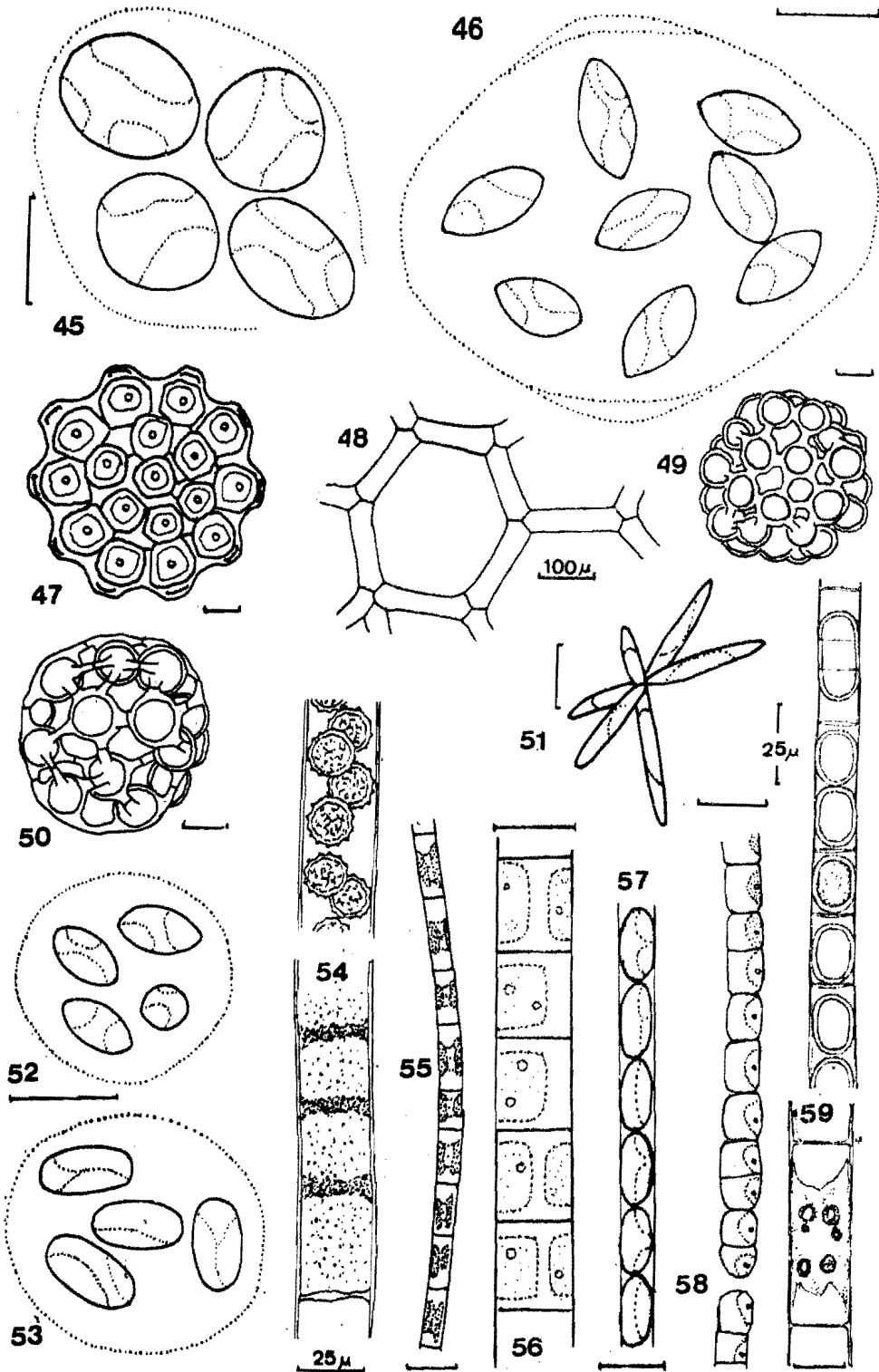
LAMINA III

30. *Dimorphococcus lunatus* A. BRAUN (según YACUBSON)
31. *Elakatothrix viridis* (SNOW) PRINTZ (s/YACUBSON)
32. *Dictyosphaerium ehrenbergianum* NÄG. (s/YACUBSON)
33. *Hyaloraphidium contortium* PASCH. & KORCH. (s/YACUBSON)
34. *Selenastrum gracile* REINSCH (s/YACUBSON)
35. *Westella botryoides* (W. WEST) DE WILD. (s/YACUBSON)
36. *Ankistrodesmus falcatus* var. *mirabilis* (WEST W. & G. S. WEST) G. S. WEST (s/YACUBSON)
37. *Treubaria triappendiculata* BERNARD (s/YACUBSON)
38. *Kirchneriella lunaris* (KIRCH.) MOEB. (s/YACUBSON)
39. *Kirchneriella obesa* var. *aperta* (TEIL.) BRUNNTH. (s/YACUBSON)
40. *Schroederia setigera* (SCHR.) LEMM. (s/YACUBSON)
41. *Selenastrum bibraianum* REINSCH. (s/YACUBSON)
42. *Crucigenia rectangularis* (NÄG.) GAY (s/BOURRELLY)
43. *Tetrallantos lagerheimii* TEIL. (s/YACUBSON)
44. *Botryococcus braunii* KÜTZ. (s/YACUBSON)



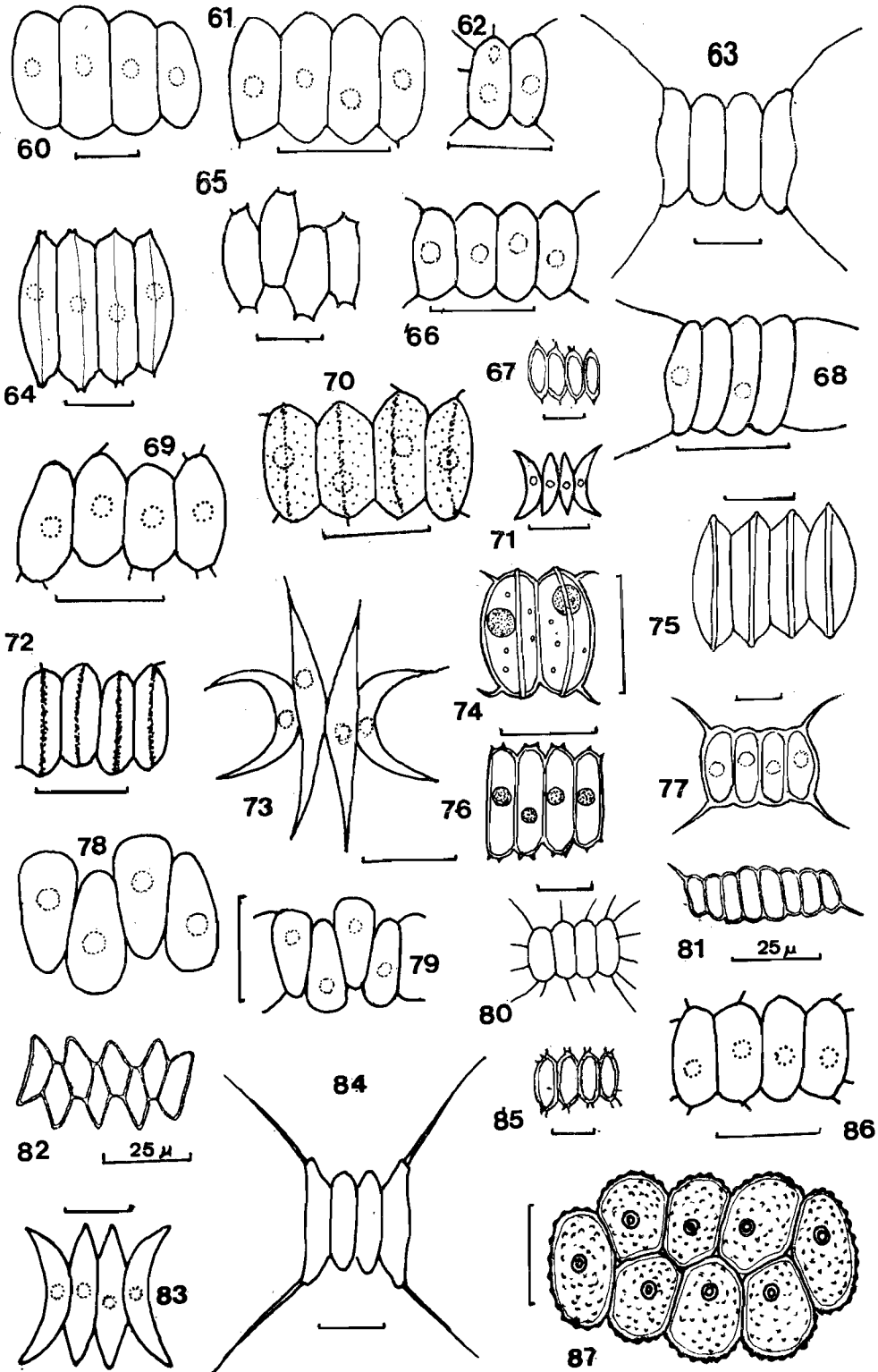
LAMINA IV

45. *Oocystis borgei* SNOW (según YACUBSON)
46. *Oocystis lacustris* CHOD. (s/ YACUBSON)
47. *Coelastrum cambricum* ARCH. (s/YACUBSON)
48. *Hydrodictyon reticulatum* (L.) LAGERH. (s/TIFFANY)
49. *Coelastrum microporum* NÄG. (s/PRESCOTT)
50. *Coelastrum reticulatum* (DANG.) SENN (s/PRESCOTT)
51. *Actinastrum hantzschii* LAGERH. (s/YACUBSON)
52. *Oocystis parva* WEST W. & G. S. WEST (s/YACUBSON)
53. *Oocystis pusilla* HANSG. (s/YACUBSON)
54. *Sphaeroplea* sp. [*S. annulina* (ROTH) C. A. AGARDH, s/SMITH y s/PRESCOTT]
55. *Ulothrix variabilis* KÜTZ. (s/PRESCOTT)
56. *Ulothrix tenerrima* KÜTZ. (s/YACUBSON)
57. *Planctonema lauterbornii* SCHM. (s/YACUBSON)
58. *Stichococcus subtilis* (KÜTZ.) KLERCK. (s/PRESCOTT)
59. *Microspora* sp. (s/MARGALEF)



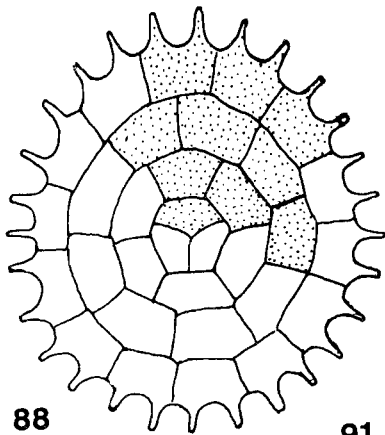
LAMINA V

60. *Scenedesmus ecornis* (RALFS) CHOD. (según YACUBSON)
61. *Scenedesmus brevispina* (SMITH) CHOD. (s/YACUBSON)
62. *Scenedesmus spinosus* CHOD. (s/YACUBSON)
63. *Scenedesmus quadricauda* (TURP.) BRÉB. (s/UHERKOVICH)
64. *Scenedesmus brasiliensis* BOHLIN (s/YACUBSON)
65. *Scenedesmus denticulatus* LAG. (s/UHERKOVICH)
66. *Scenedesmus quadricauda* var. *quadrispina* (CHOD.) SMITH (s/YACUBSON)
67. *Scenedesmus denticulatus* var. *australis* PLAYF. (s/DEFLANDRE)
68. *Scenedesmus quadricauda* var. *longispina* (CHOD.) SMITH (s/YACUBSON)
69. *Scenedesmus denticulatus* var. *linearis* HANSG. (s/YACUBSON)
70. *Scenedesmus denticulatus* var. *linearis* fa. *costato-granulatus* (HORTOB.) UHERK. (s/YACUBSON)
71. *Scenedesmus dimorphus* (TURP.) KÜTZ. (s/GESSNER)
72. *Scenedesmus circumfusus* var. *bicaudatus* HORTOB. (s/YACUBSON)
73. *Scenedesmus falcatus* CHOD. (s/SKUJA)
74. *Scenedesmus armatus* var. *smithii* CHOD. (s/HORTOBÁGYI)
75. *Scenedesmus acutiformis* SCHROED. (s/PRESCOTT)
76. *Scenedesmus denticulatus* var. *gracilis* PLAYF. (s/HORTOBÁGYI)
77. *Scenedesmus quadricauda* (TURP.) BRÉB. (s/YACUBSON)
78. *Scenedesmus intermedius* var. *acaudatus* HORTOB. (s/YACUBSON)
79. *Scenedesmus intermedius* CHOD. (s/YACUBSON)
80. *Scenedesmus abundans* CHOD. (s/PRESCOTT)
81. *Scenedesmus bicaudatus* (HANSG.) CHOD. (s/MARGALEF)
82. *Scenedesmus ovalternus* CHOD. (s/MARGALEF)
83. *Scenedesmus acutus* MEYEN (s/YACUBSON)
84. *Scenedesmus opoliensis* RICHTER (s/UHERKOVICH)
85. *Scenedesmus denticulatus* LAG. fa. (s/DEFLANDRE)
86. *Scenedesmus dispar* BRÉB. (s/YACUBSON)
87. *Scenedesmus verrucosus* ROLL. (s/BOURRELLY)

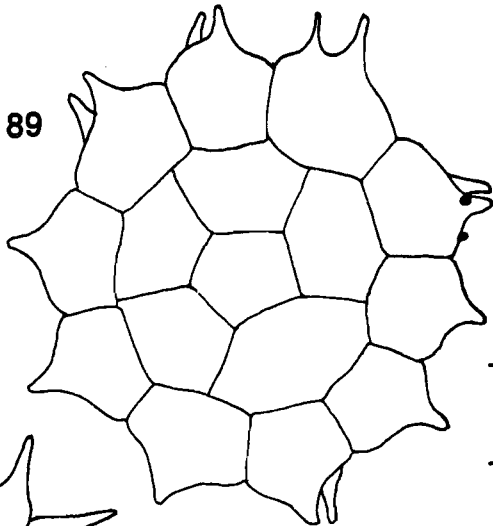


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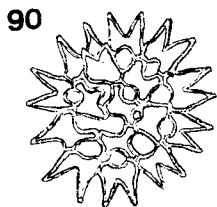
88. *Pediastrum boryanum* (TURP.) MENECH. (según YACUBSON)
89. *Pediastrum kawraiskyi* SCHM. (s/YACUBSON)
90. *Pediastrum duplex* MEYEN (s/MARGALEF)
91. *Pediastrum simplex* (MEYEN) LEMM. (s/GESSNER)
92. *Pediastrum tetras* (EHR.) RALFS (s/GESSNER)
93. *Pediastrum tetras* var. *tetraodon* (CORDA) RAB. (s/SMITH)
94. *Pediastrum duplex* var. *reticulatum* LAGERH. (s/SMITH)
95. *Sorastrum americanum* (BOHL.) SCHM. (s/YACUBSON)
96. *Pediastrum tetras* (EHR.) RALFS (s/GESSNER)
97. *Pediastrum duplex* var. *rotundatum* LUCKS. (s/SMITH)
98. *Pediastrum clathratum* (SCHR.) LEMM. (s/GESSNER)
99. *Pediastrum biradiatum* MEYEN (s/DEFLANDRE)



88

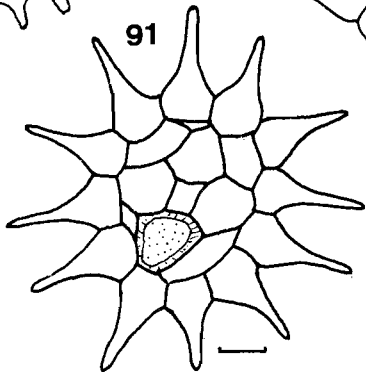


89

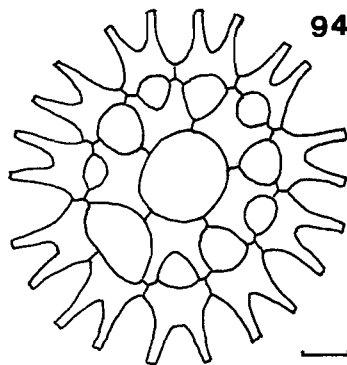


90

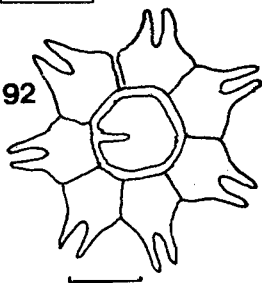
25 μ



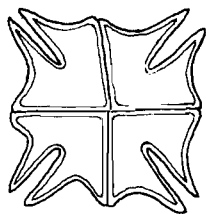
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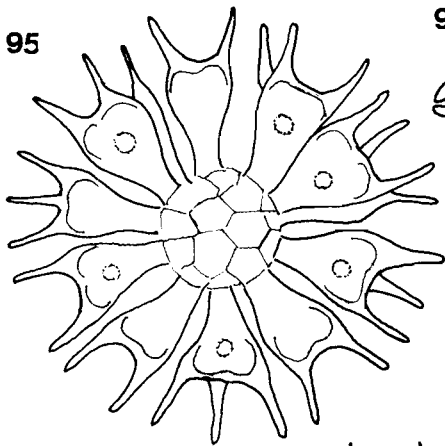
94



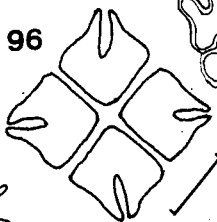
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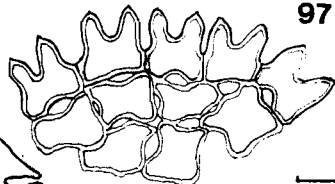
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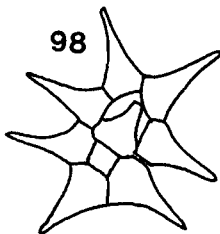
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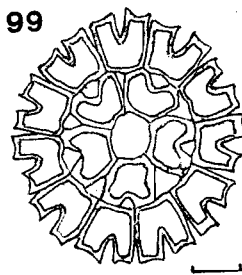
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97



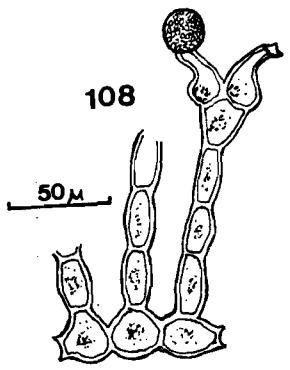
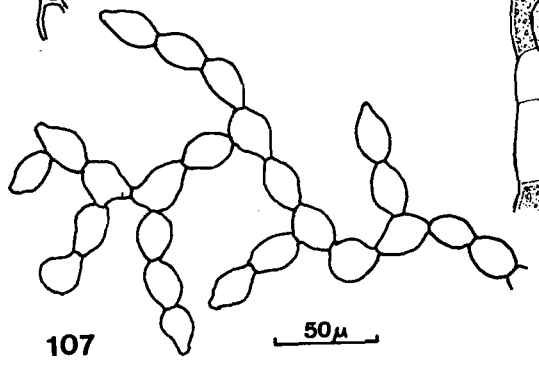
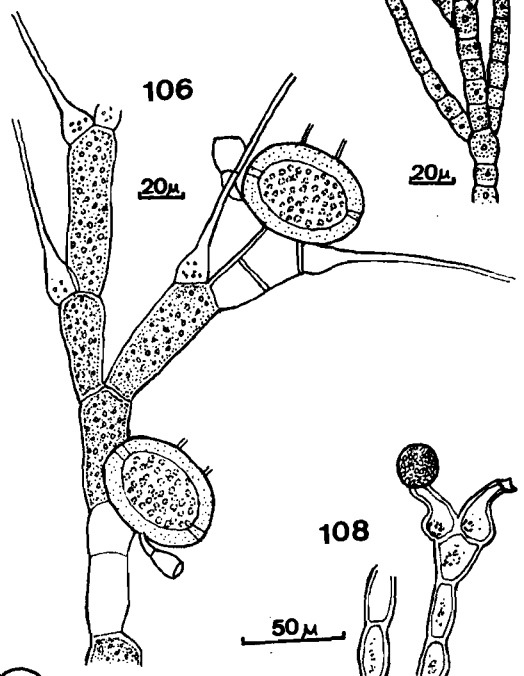
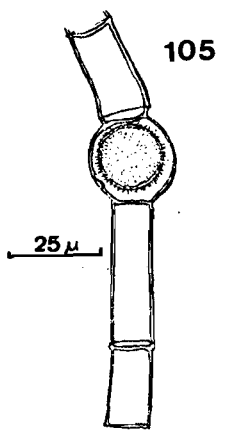
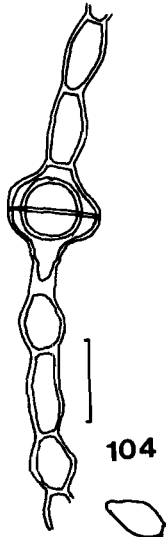
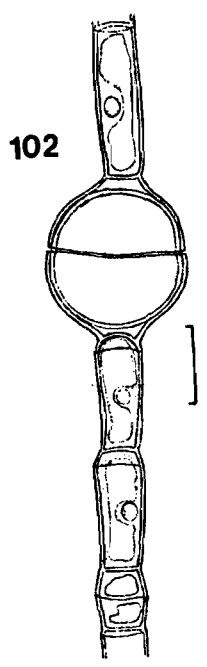
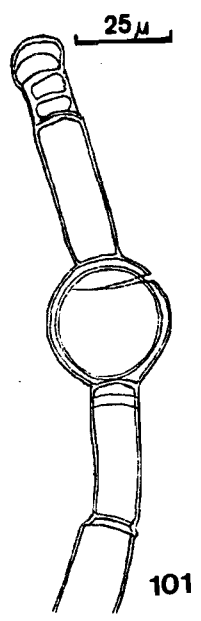
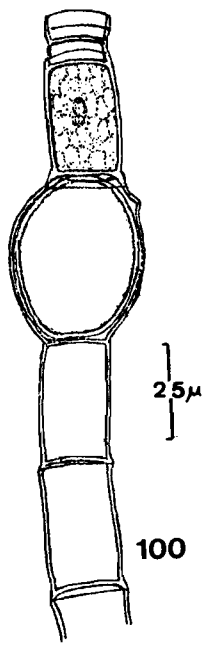
98



99

LAMINA VII

100. *Oedogonium intermedium* WITTR. (según MARGALEF)
101. *Oedogonium crispum* var. *uruguayense* MAGNUS & WILLE (s/MARGALEF)
102. *Oedogonium gunnii* WITTR. (s/MARGALEF)
103. *Stigeoclonium* sp. [*S. lubricum* (DILLW.) KÜTZ., s/HAZEN]
104. *Oedogonium reinschii* ROY (s/PRESCOTT)
105. *Oedogonium santurcense* TIFF. (s/MARGALEF)
106. *Bulbochaete* sp. (*B. intermedia* DE BARY, s/WITTROCK)
107. *Physolinum monilia* (DE WILD.) PRINTZ (s/SMITH)
108. *Trentepohlia aurea* (L.) MARTIUS (s/STARMACH)

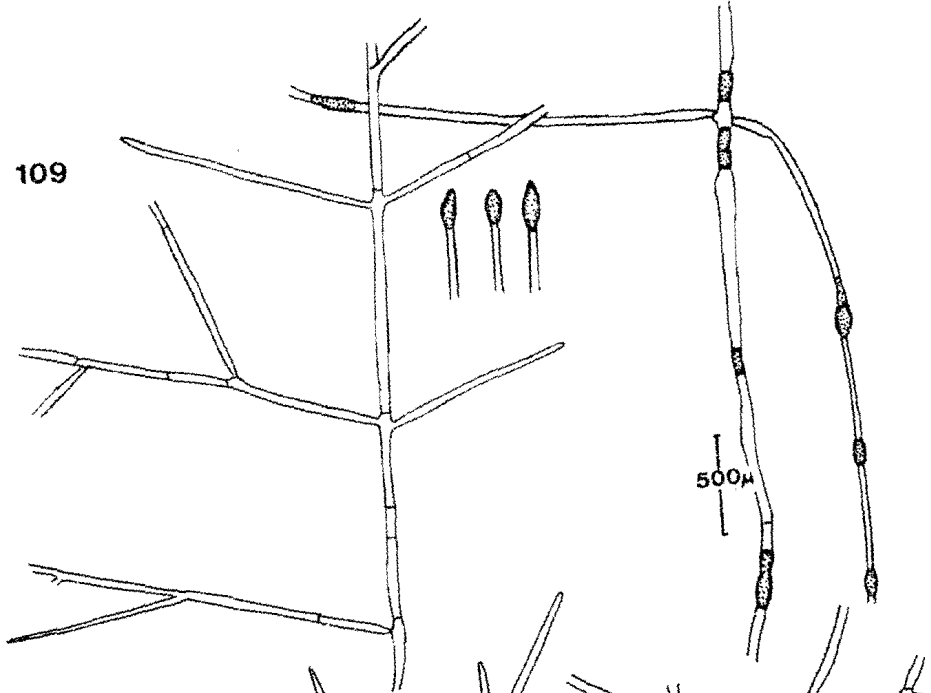


LAMINA VIII

109. *Pithophora polymorpha* WITTR. (según VAN DEN HOEK)

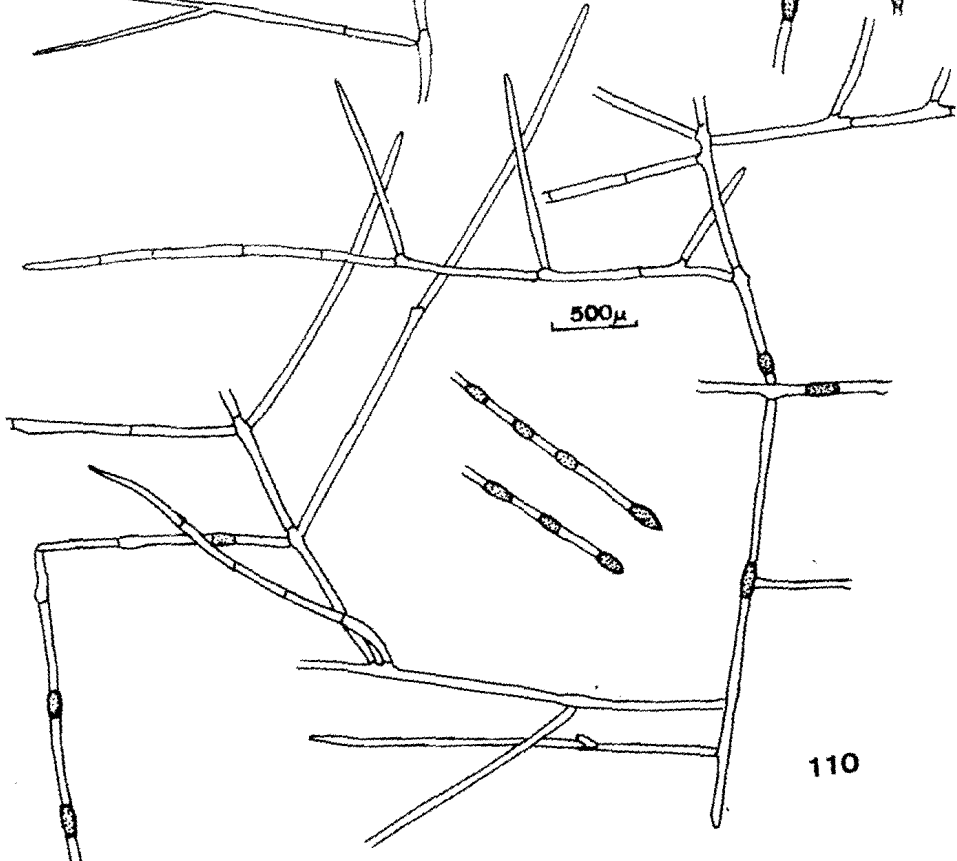
110. *Pithophora aequalis* WITTR. (s/VAN DEN HOEK)

109



500μ

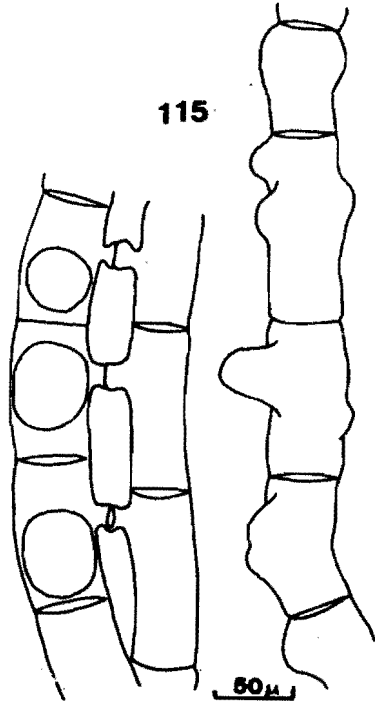
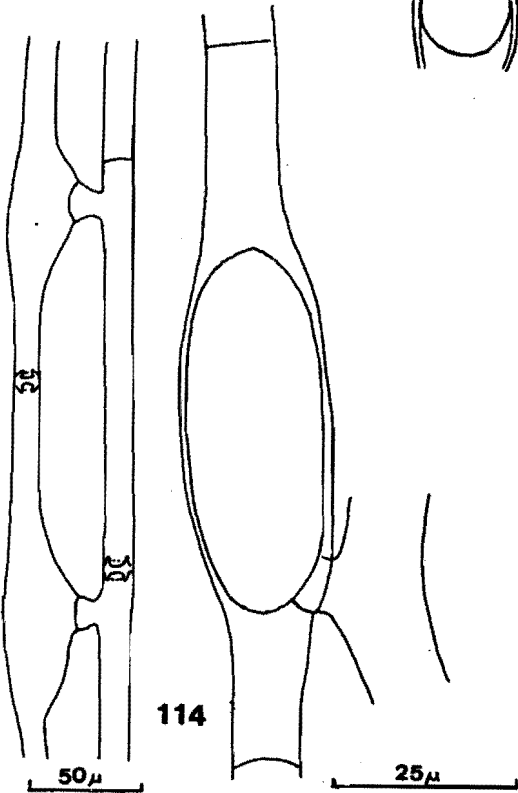
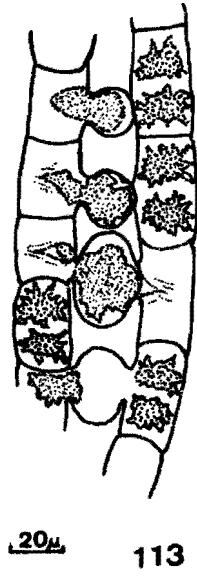
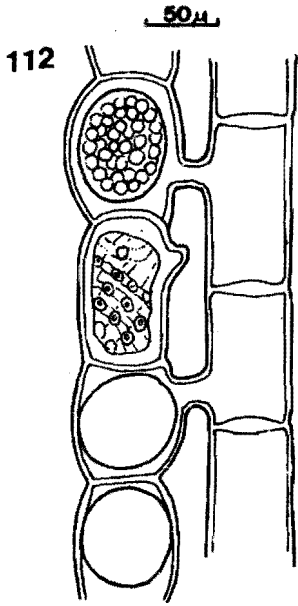
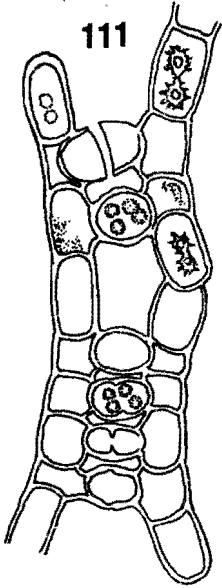
500μ



110

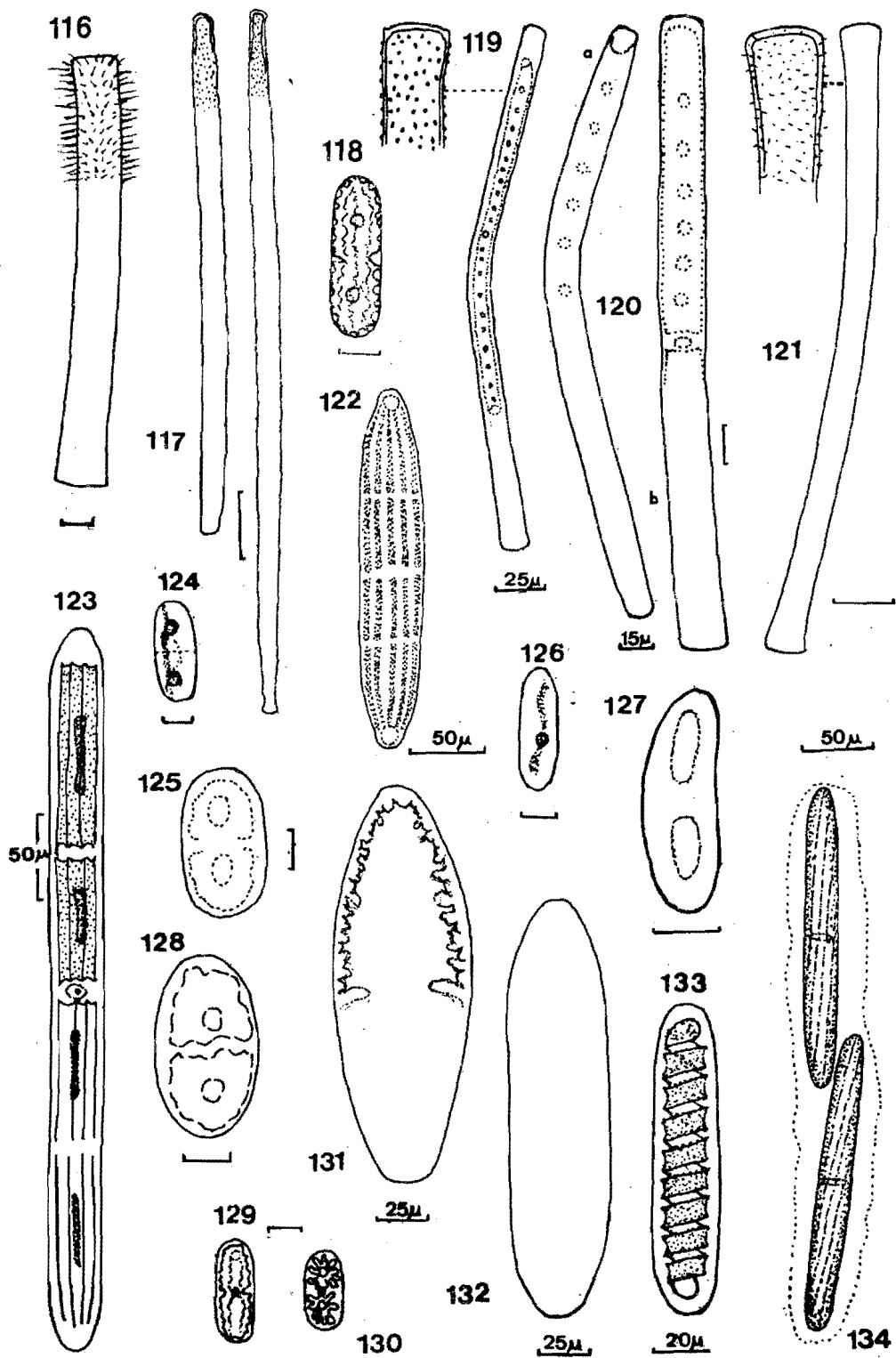
LAMINA IX

111. *Zygonium ericetorum* KÜTZ. (según TRANSEAU)
112. *Spirogyra neglecta* (HASS.) KÜTZ. (s/FRITSCH y RICH)
113. *Zygnema* sp. (*Z. circumcarinatum* CZURDA, s/CZURDA)
114. *Spirogyra pseudospreiana* JAO (s/VAN DEN HOEK)
115. *Spirogyra distenta* TRANSEAU (s/VAN DEN HOEK)



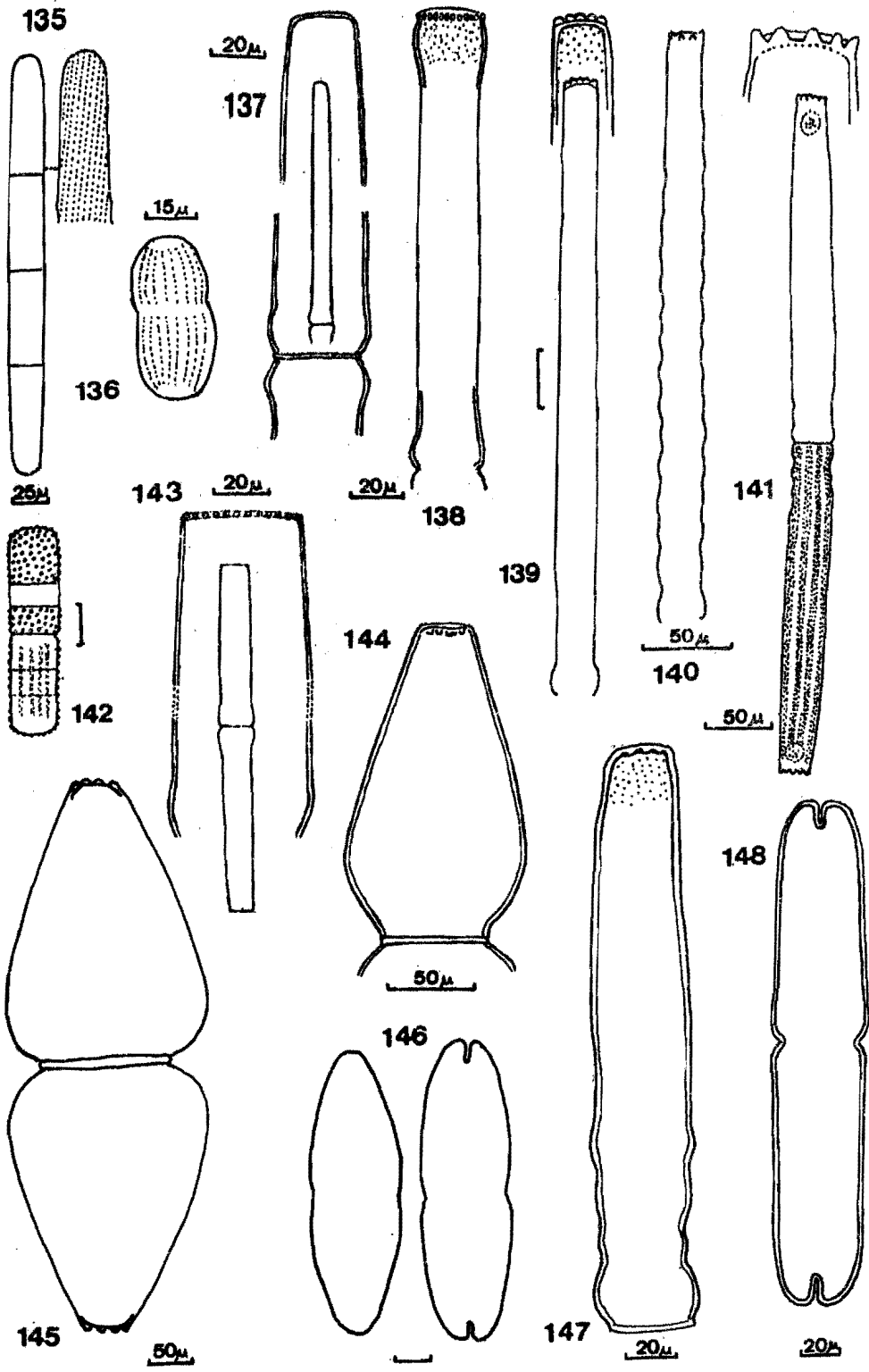
LAMINA X

116. *Gonatozygon aculeatum* HAST. (según SCOTT y PRESCOTT)
117. *Gonatozygon brébissonii* DE BARY (s/CROASDALE)
118. *Cylindrocystis brébissonii* MENEGH. (s/BOURRELLY)
119. *Gonatozygon monotaenium* DE BARY (s/BOURRELLY)
- 120 a-b. *Gonatozygon kinahani* (ARCH.) RAB. (s/YACUBSON)
121. *Gonatozygon pilosum* WOLLE (s/YACUBSON)
122. *Netrium interruptum* (BRÉB.) LÜTKEM. (s/IRENÉE-MARIE)
123. *Netrium interruptum* var. *giganteum* KRIEG. & BOURR. (s/KRIEGER y BOURRELLY)
124. *Mesotaenium macrococcum* (Kütz.) ROY & BISS. (s/WEST W. y G. S. WEST)
125. *Cylindrocystis brébissonii* var. *turgida* SCHMIDLE (s/CROASDALE y GRÖNBLAD)
126. *Mesotaenium caldariorum* (LAGERH.) HANSG. (s/WEST W. y G. S. WEST)
127. *Cylindrocystis brébissonii* var. *jenneri* (RALFS) HANSG. (s/YACUBSON)
128. *Cylindrocystis crassa* DE BARY (s/PRESCOTT)
- 129-130. *Cylindrocystis brébissonii* var. *minor* WEST W. & G. S. WEST (s/BOURRELLY)
131. *Netrium digitus* (EHR.) ITZIGS. & ROTHE (s/YACUBSON)
132. *Netrium digitus* var. *lamellosum* (BRÉB.) GRÖNBL. (s/YACUBSON)
133. *Spirotaenia condensata* BRÉB. (s/YACUBSON)
134. *Spirotaenia trabeculata* A. BR. (s/IRENÉE-MARIE)



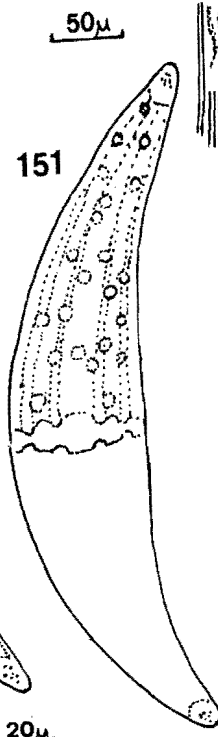
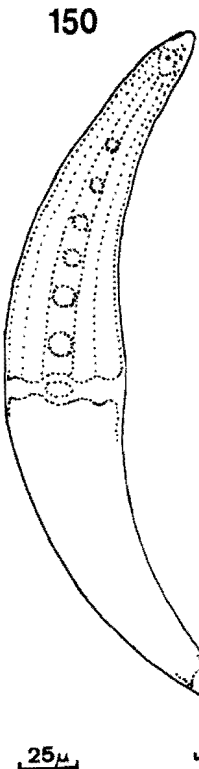
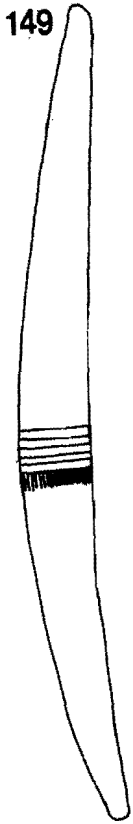
LAMINA XI

135. *Penium spirostriolatum* BARKER (según CROASDALE)
136. *Penium polymorphum* PERTY (s/YACUBSON)
137. *Pleurotaenium maximum* (REINSCH) LUND. (s/DEFLANDRE)
138. *Pleurotaenium cristatum* (TURN.) BORGE fa. (s/DEFLANDRE)
139. *Pleurotaenium ehrenbergii* var. *elongatum* W. WEST (s/CROASDALE)
140. *Pleurotaenium ehrenbergii* var. *undulatum* SCHAAR. (s/PRESCOTT)
141. *Pleurotaenium ehrenbergii* (BRÉB.) DE BARY (s/IRENÉE-MARIE)
142. *Penium cylindrus* (EHR.) BRÉB. (s/CROASDALE)
143. *Pleurotaenium stuhlmannii* (HIERON.) SCHM. (s/DEFLANDRE)
144. *Pleurotaenium ovatum* NORDST. (s/DEFLANDRE)
145. *Pleurotaenium ovatum* var. *tumidum* fa. *maius* YACUBSON (s/YACUBSON)
146. *Tetmemorus laevis* (KÜTZ.) RALFS (s/PRESCOTT)
147. *Pleurotaenium coronatum* (BRÉB.) RAB. (s/PRESCOTT)
148. *Tetmemorus brébissonii* (MENEHGH.) RALFS (s/TAYLOR)

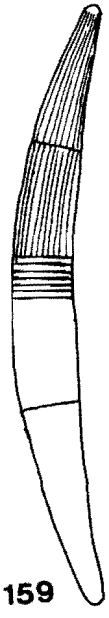
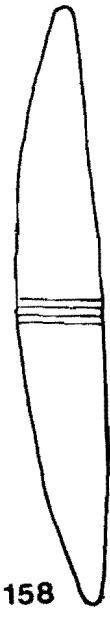
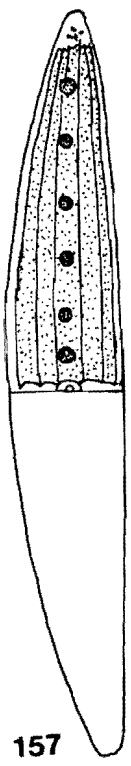
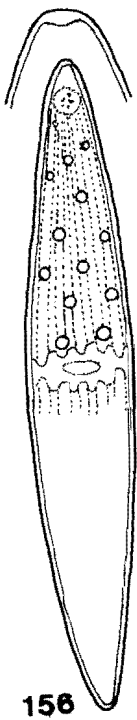
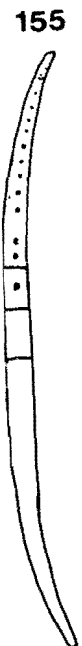
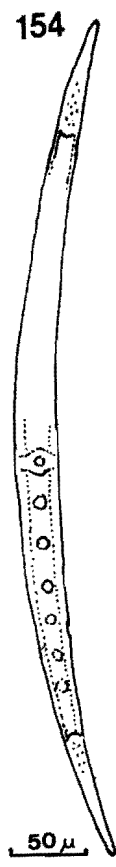
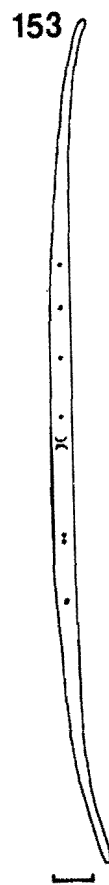
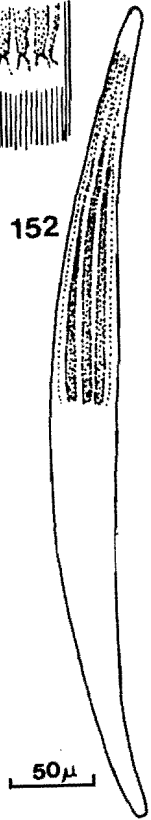


LAMINA XII

149. *Closterium turgidum* EHR. (según SCOTT, GRÖNBLAD y CROASDALE)
150. *Closterium moniliferum* (BORY) EHR. (s/YACUBSON)
151. *Closterium ehrenbergii* MENEGH. (s/WEST W. y G. S. WEST)
152. *Closterium ralfsii* var. *hybridum* RAB. (s/CROASDALE)
153. *Closterium gracile* BRÉB. (s/CROASDALE)
154. *Closterium decorum* BRÉB. (s/WEST W. y G. S. WEST)
155. *Closterium juncidum* RALFS (s/CROASDALE y GRÖNBLAD)
156. *Closterium lunula* (MÜLL.) NITZSCH. (s/IRENÉE-MARIE)
157. *Closterium pseudolunula* BORGE (s/KRIEGER y BOURRELLY)
158. *Closterium lunula* var. *coloratum* KLEBS (s/WEST W. y G. S. WEST)
159. *Closterium striolatum* EHR. (s/CROASDALE)



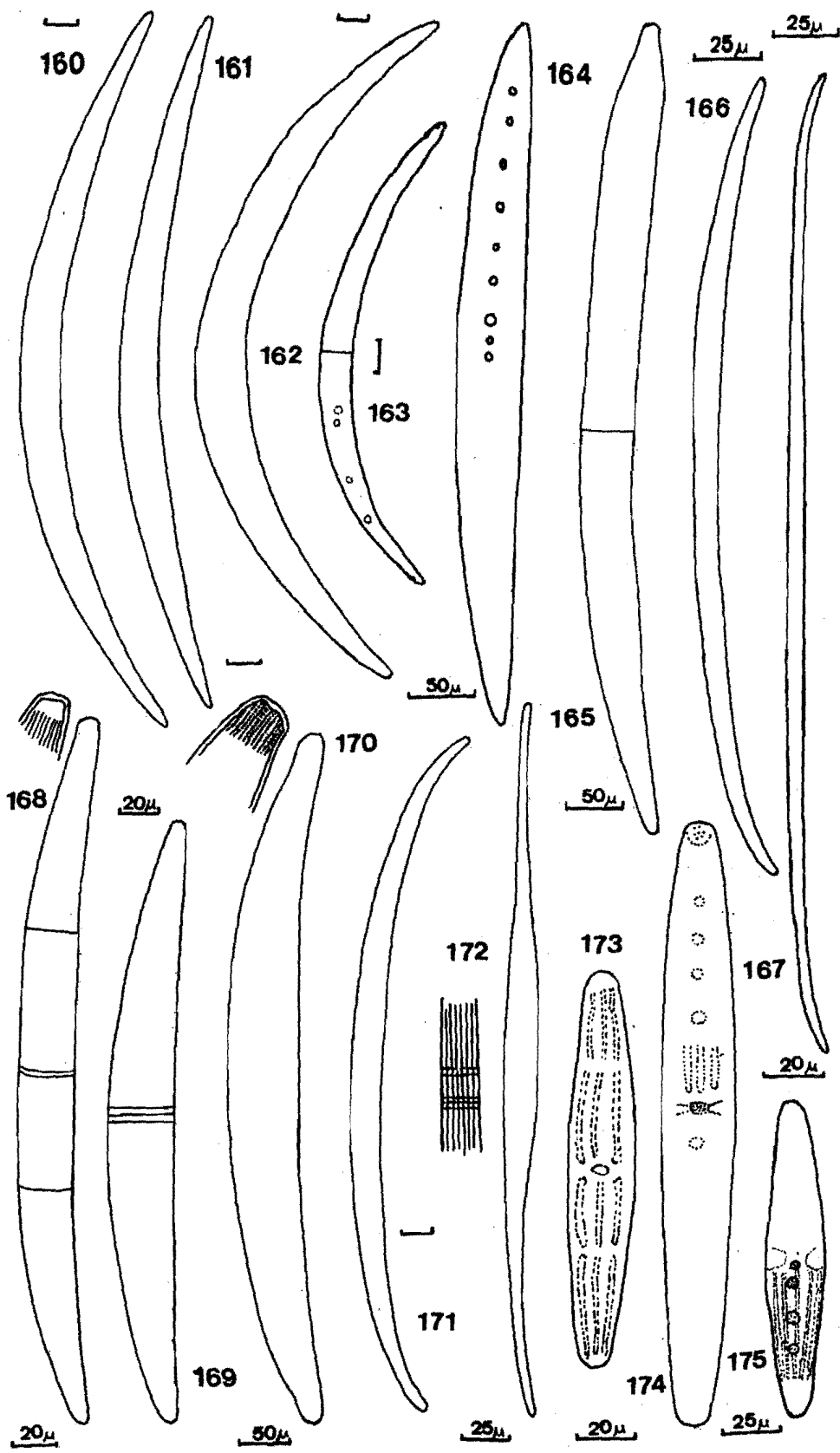
50 μ



25

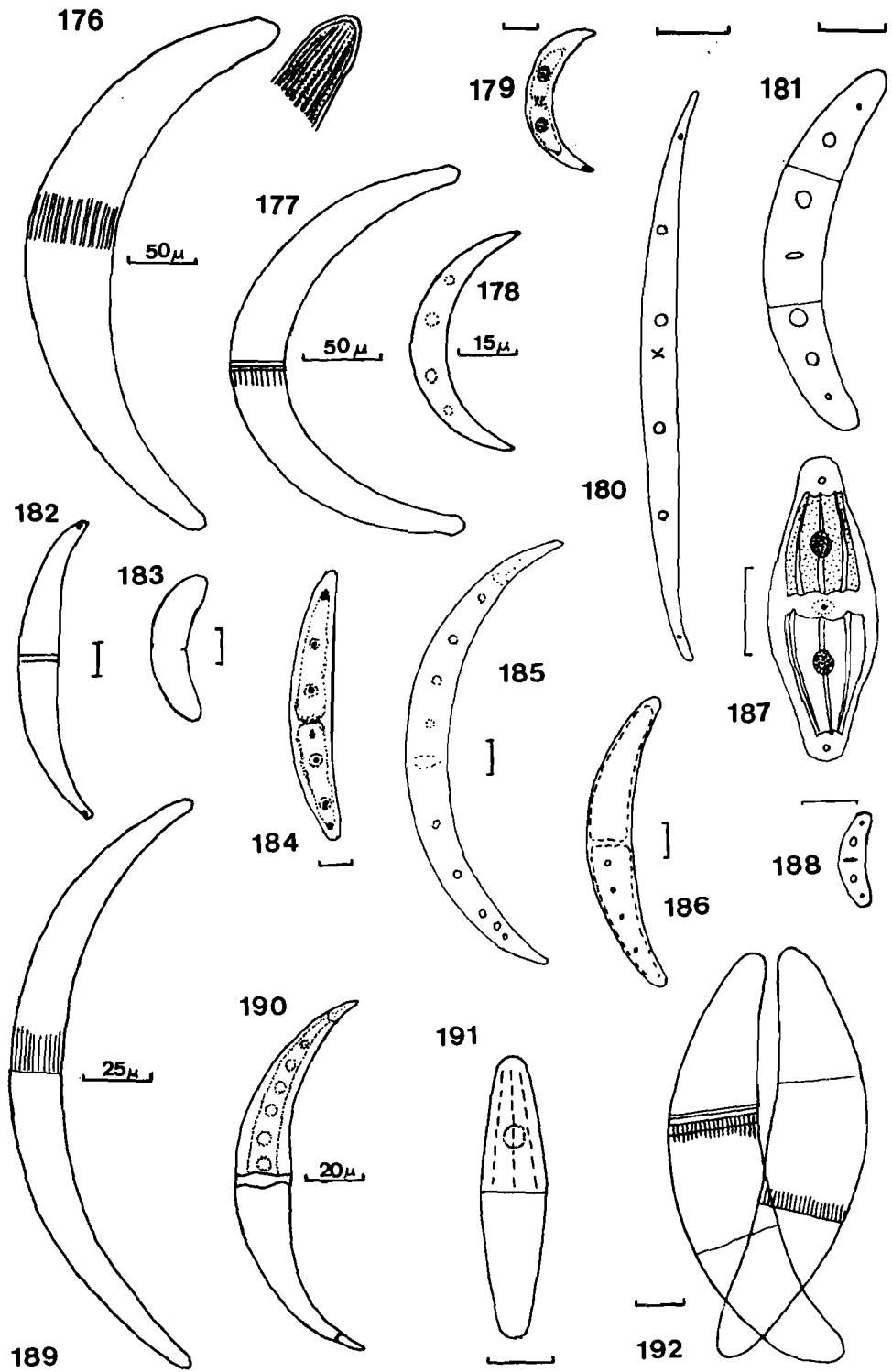
LAMINA XIII

160. *Closterium diana*e EHR. (según YACUBSON)
161. *Closterium diana*e var. *pseudodiana*e (ROY.) KRIEG. (s/YACUBSON)
162. *Closterium diana*e var. *arcuatum* (BRÉB.) RAB. (s/YACUBSON)
163. *Closterium diana*e var. *minus* (WILLE) SCHROD. (s/CROASDALE)
164. *Closterium acerosum* (SCHRANK.) EHR. (s/SCOTT y PRESCOTT)
165. *Closterium acerosum* fa. BERGE (s/DEFLANDRE)
166. *Closterium macilentum* BRÉB. (s/DEFLANDRE)
167. *Closterium gracile* var. *elongatum* WEST W. & G. S. WEST (s/WEST W. y G. S. WEST)
168. *Closterium intermedium* RALFS (s/CROASDALE y GRÖNBLAD)
169. *Closterium subturgidum* NORDST. (s/DEFLANDRE)
170. *Closterium turgidum* fa. *brasiliensis* NORDST. (s/DEFLANDRE)
171. *Closterium strigosum* BRÉB. (s/YACUBSON)
172. *Closterium kützingii* var. *vittatum* NORDST. fa. (s/DEFLANDRE)
173. *Closterium libellula* var. *interruptum* (WEST W. & G. S. WEST) DONAT (s/SCOTT, GRÖNBLAD y CROASDALE)
174. *Closterium libellula* FOCKE (s/CROASDALE y GRÖNBLAD)
175. *Closterium libellula* var. *intermedium* (ROY & BISS.) G. S. WEST (s/SCOTT, GRÖNBLAD y CROASDALE)



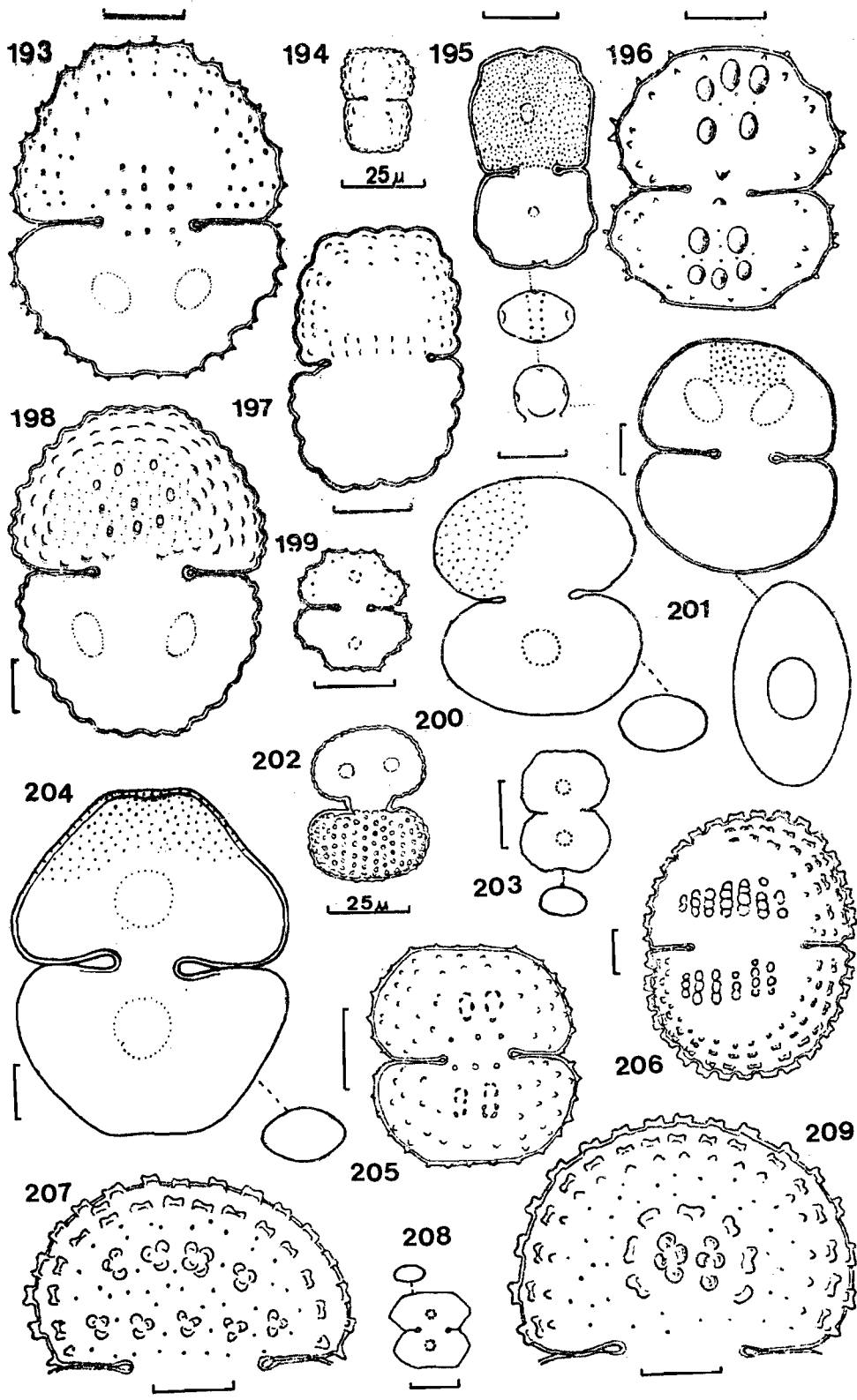
LAMINA XIV

176. *Closterium malmei* BERGE (según DEFLANDRE)
177. *Closterium malmei* var. *semicirculare* BERGE (s/DEFLANDRE)
178. *Closterium venus* KÜTZ. (s/YACUBSON)
179. *Closterium venus* fa. *minor* ROLL (s/DEFLANDRE)
180. *Closterium subulatum* var. *minus* KRIEG. & BOURR. (s/KRIEGER)
181. *Closterium jenneri* var. *robustum* G. S. WEST (s/KRIEGER)
182. *Closterium calosporum* WITTR. (s/SCOTT y PRESCOTT)
183. *Closterium pusillum* HANTZSCH (s/SCOTT y PRESCOTT)
184. *Closterium pusillum* var. *major* RACIB. (s/DEFLANDRE)
185. *Closterium parvulum* NÄG. (s/CROASDALE)
186. *Closterium cynthia* DE NOT (s/PRESCOTT)
187. *Closterium navicula* var. *tumidum* KRIEG. & BOURR. (s/KRIEGER y BOURRELLY)
188. *Closterium pusillum* var. *applanatum* KRIEG. & BOURR. (s/KRIEGER)
189. *Closterium archerianum* CLEVE (s/WEST W. y G. S. WEST)
190. *Closterium leibleinii* KÜTZ. (s/RALFS)
191. *Closterium navicula* (BRÉB.) LÜTKEM. (s/KRIEGER y SCOTT)
192. *Closterium cynthia* var. *latum* SCHM. (s/KRIEGER y BOURRELLY)



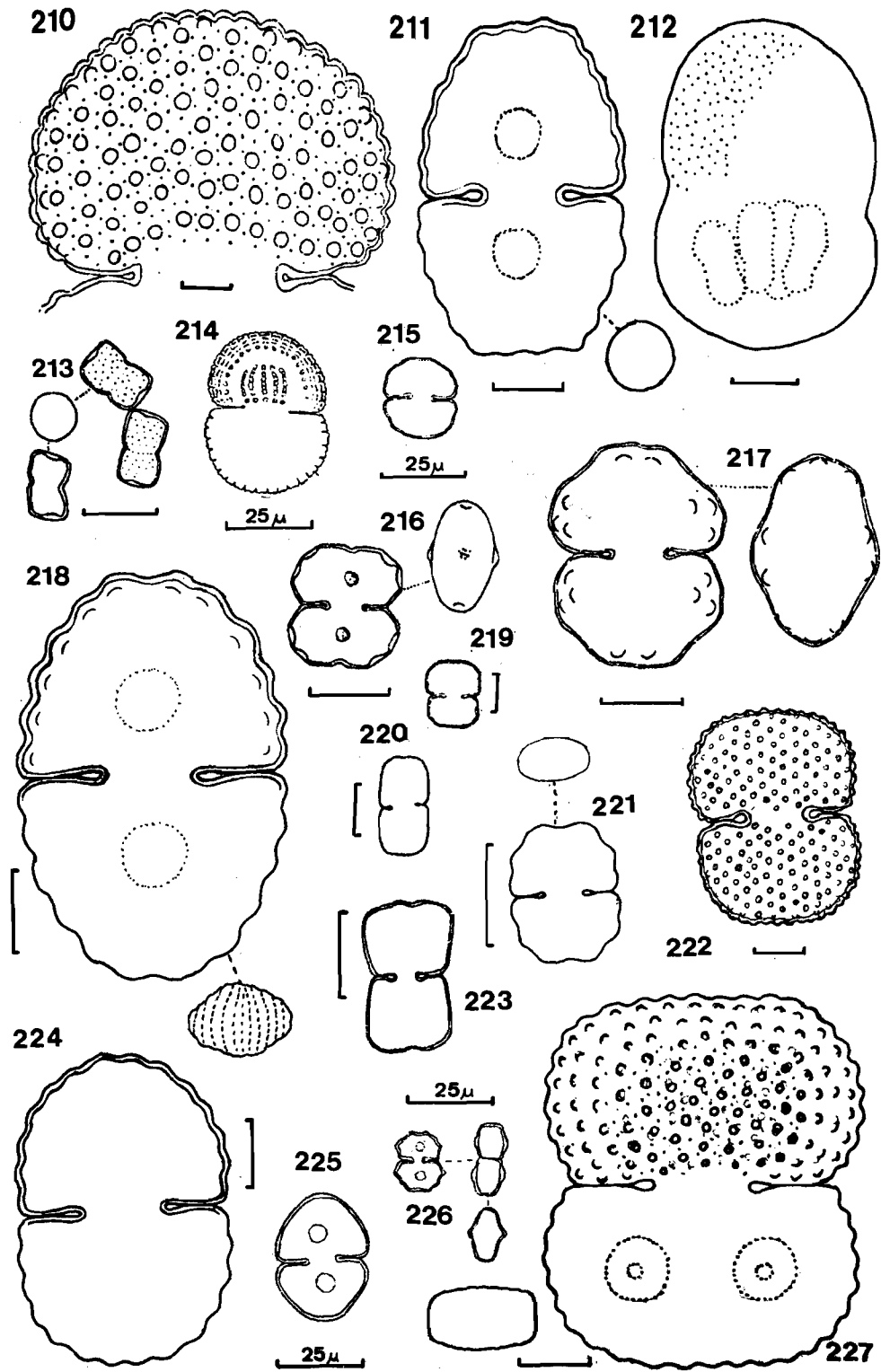
LAMINA XV

193. *Cosmarium subcostatum* NORDST. fa. (según KRIEGER y BOURRELLY)
194. *Cosmarium subcrenatum* HANTZSCH. (s/MARGALEF)
195. *Cosmarium exactum* KRIEG. & BOURR. (s/KRIEGER y BOURRELLY)
196. *Cosmarium teilingii* KRIEG. & BOURR. (s/KRIEGER y BOURRELLY)
197. *Cosmarium crenatum* RALFS fa. (s/KRIEGER y BOURRELLY)
198. *Cosmarium hornavanense* var. *dubovianum* (LÜTK.) RUZ. fa. (s/KRIEGER y BOURRELLY)
199. *Cosmarium humile* var. *ornatum* KRIEG. & BOURR. (s/KRIEGER y BOURRELLY)
200. *Cosmarium subtumidum* var. *subellipticum* (PLAYF.) KRIEG. & GERL. (s/YACUBSON)
201. *Cosmarium regulare* SCHM. (s/KRIEGER)
202. *Cosmarium reniforme* (RALFS) ARCH. (s/MARGALEF)
203. *Cosmarium laeve* RABENH. (s/YACUBSON)
204. *Cosmarium subtumidum* var. *croasdaleae* FÖRST. (s/YACUBSON)
205. *Cosmarium vogesiacum* var. *quadrigranulatum* (GUTW.) LAP. fa. (s/KRIEGER y BOURRELLY)
206. *Cosmarium quadrifarium* fa. *octasticha* NORDST. (s/KRIEGER)
207. *Cosmarium quadrifarium* var. *ornatum* KRIEG. & BOURR. (s/KRIEGER y BOURRELLY)
208. *Cosmarium abbreviatum* BRÉB. (s/YACUBSON)
209. *Cosmarium quadrifarium* fa. *hexasticha* (LUND.) NORDST. (s/KRIEGER y BOURRELLY)



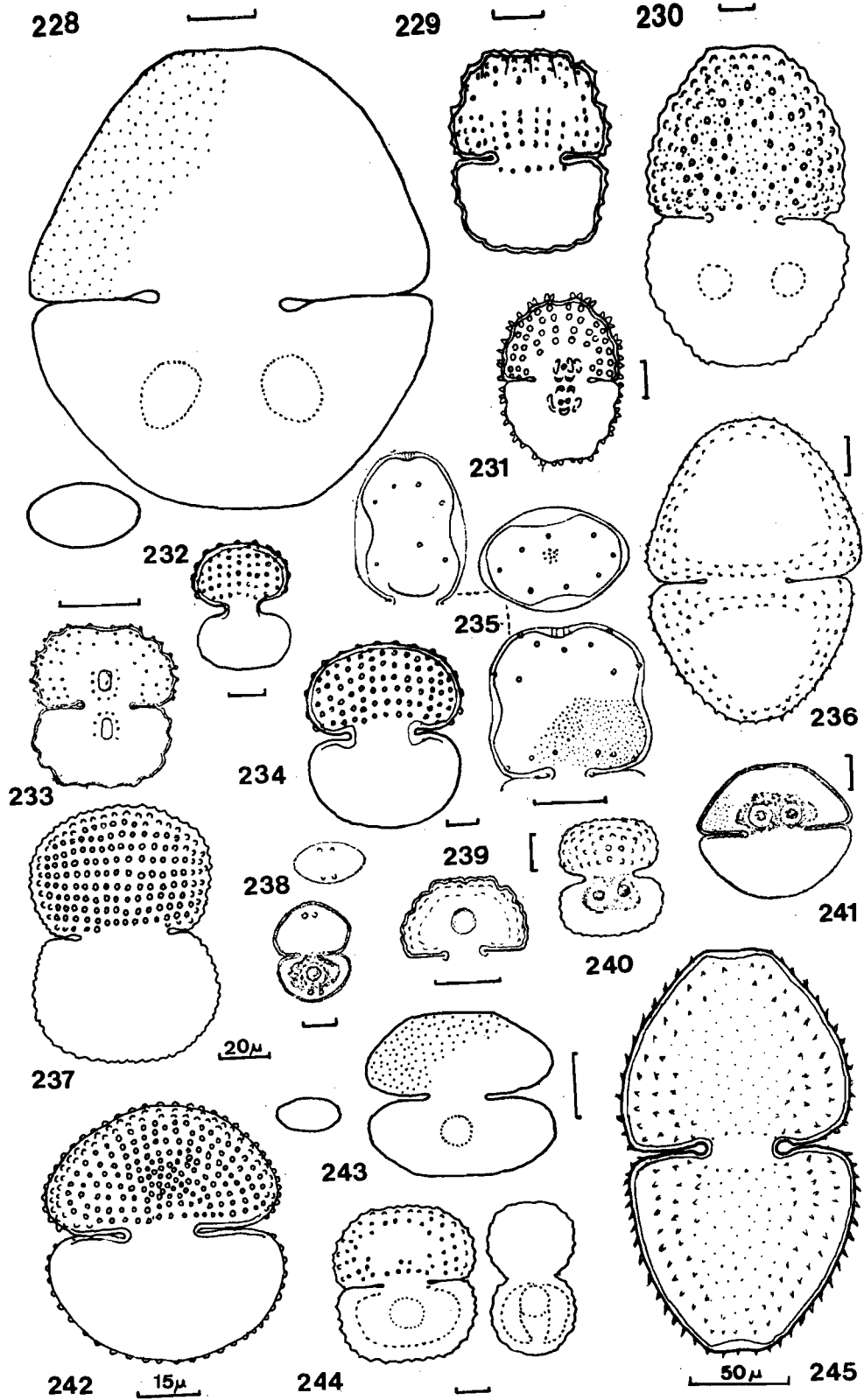
LAMINA XVI

- 210. *Cosmarium margaritatum* fa. *subrotundata* WEST W. & G. S. WEST
(según KRIEGER y BOURRELLY)
- 211. *Cosmarium notabile* var. *heterocrenatum* (WEST W. & G. S. WEST)
KRIEG. & GERL. (s/YACUBSON)
- 212. *Cosmarium pseudoconnatum* NORDST. (s/YACUBSON)
- 213. *Cosmarium goniodes* WEST W. & G. S. WEST fa. (s/KRIEGER y BOURRELLY)
- 214. *Cosmarium binum* NORDST. (s/MARGALEF)
- 215. *Cosmarium fontigenum* NORDST. (s/MARGALEF)
- 216. *Cosmarium gessneri* KRIEG. & BOURR. (s/KRIEGER y BOURRELLY)
- 217. *Cosmarium retusum* (PERTY) RAB. fa. (s/KRIEGER y BOURRELLY)
- 218. *Cosmarium speciosum* LUND. (s/YACUBSON)
- 219. *Cosmarium rectangulare* var. *hexagonum* (ELFV.) WEST fa. (s/DEPLANDRE)
- 220. *Cosmarium exiguum* ARCH. (s/KRIEGER)
- 221. *Cosmarium meneghinii* BRÉB. (s/YACUBSON)
- 222. *Cosmarium margaritatum* fa. *minor* (BOLDT) WEST W. & G. S. WEST
(s/WEST W. y G. S. WEST)
- 223. *Cosmarium pseudoexiguum* var. *hexagonum* GRÖNBL. (s/KRIEGER y BOURRELLY)
- 224. *Cosmarium undulatum* CORDA (s/YACUBSON)
- 225. *Cosmarium granatum* BRÉB. (s/MARGALEF)
- 226. *Cosmarium impressulum* var. *suborthogona* fa. *minor* CROASD. (s/MARGALEF)
- 227. *Cosmarium margaritatum* (LUND.) ROY & BISS. (s/YACUBSON)



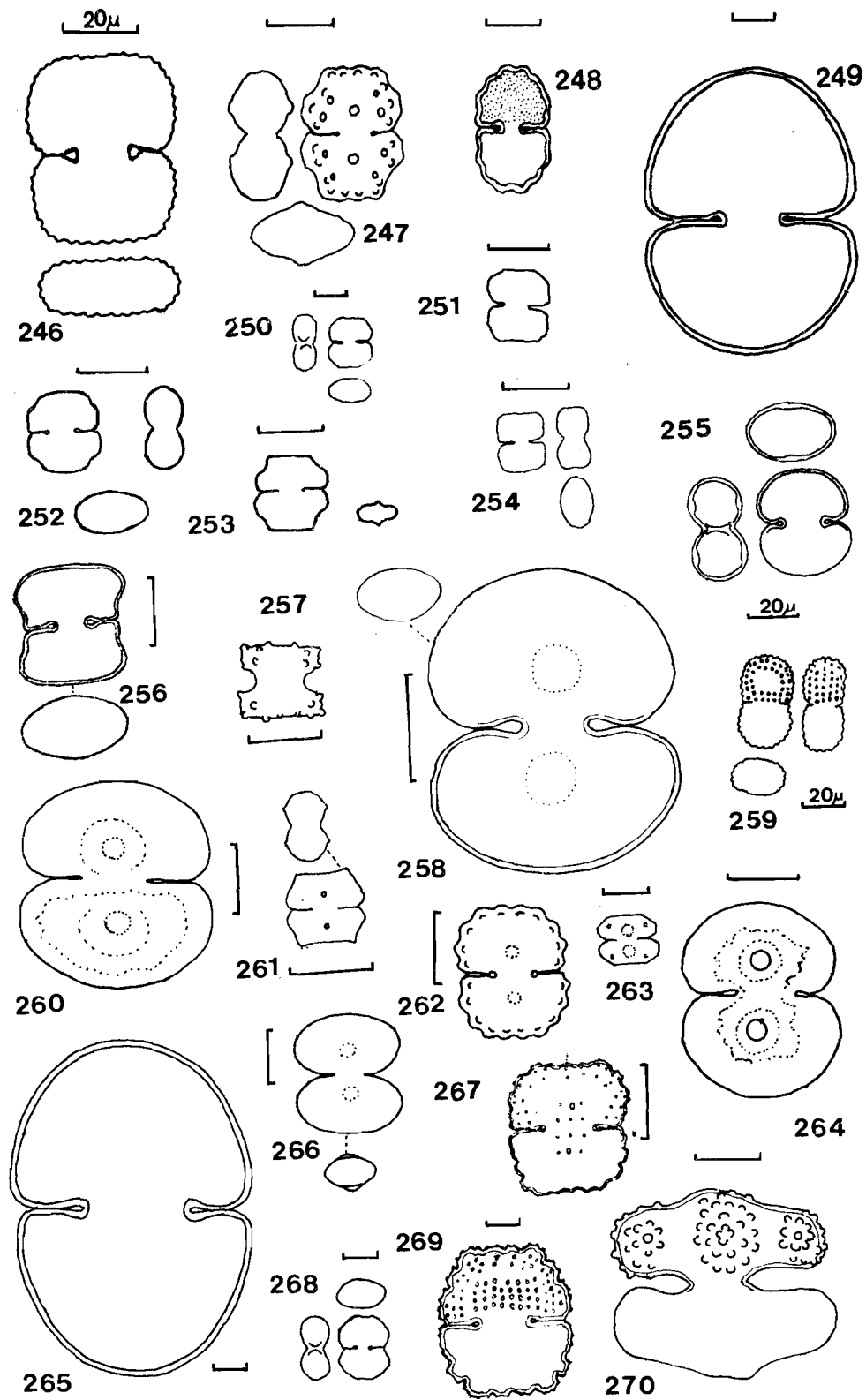
LAMINA XVII

- 228. *Cosmarium lundellii* DELP. (según YACUBSON)
- 229. *Cosmarium caelatum* RALFS (s/TAYLOR)
- 230. *Cosmarium tetraophthalmum* BRÉB. (s/CROASDALE)
- 231. *Cosmarium nasutum* fa. *granulatum* NORDST. (s/CROASDALE)
- 232. *Cosmarium portianum* ARCH. (s/WEST W. y G. S. WEST)
- 233. *Cosmarium blyttii* WILLE fa. (s/KRIEGER y BOURRELLY)
- 234. *Cosmarium reniforme* var. *apertum* WEST W. & G. S. WEST (s/WEST W. y G. S. WEST)
- 235. *Cosmarium difficile* LÜTK. fa. (s/KRIEGER y BOURRELLY)
- 236. *Cosmarium denticulatum* BERGE (s/DEFLANDRE)
- 237. *Cosmarium conspersum* RALFS (s/CROASDALE)
- 238. *Cosmarium mammilliferum* NORDST. (s/DEFLANDRE)
- 239. *Cosmarium subcostatum* var. *minor* WEST W. & G. S. WEST (s/MARGALEF)
- 240. *Cosmarium margaritifera* (TURP.) MENEGH. fa. (s/DEFLANDRE)
- 241. *Cosmarium baileyi* WOLLE (s/DEFLANDRE)
- 242. *Cosmarium margaritifera* (TURP.) MENEGH. (s/PRESCOTT)
- 243. *Cosmarium depressum* var. *truncatum* YACUBSON (s/YACUBSON)
- 244. *Cosmarium punctulatum* BRÉB. (s/CROASDALE)
- 245. *Cosmarium denticulatum* var. *ovale* GRÖNBLAD (s/BOURRELLY)



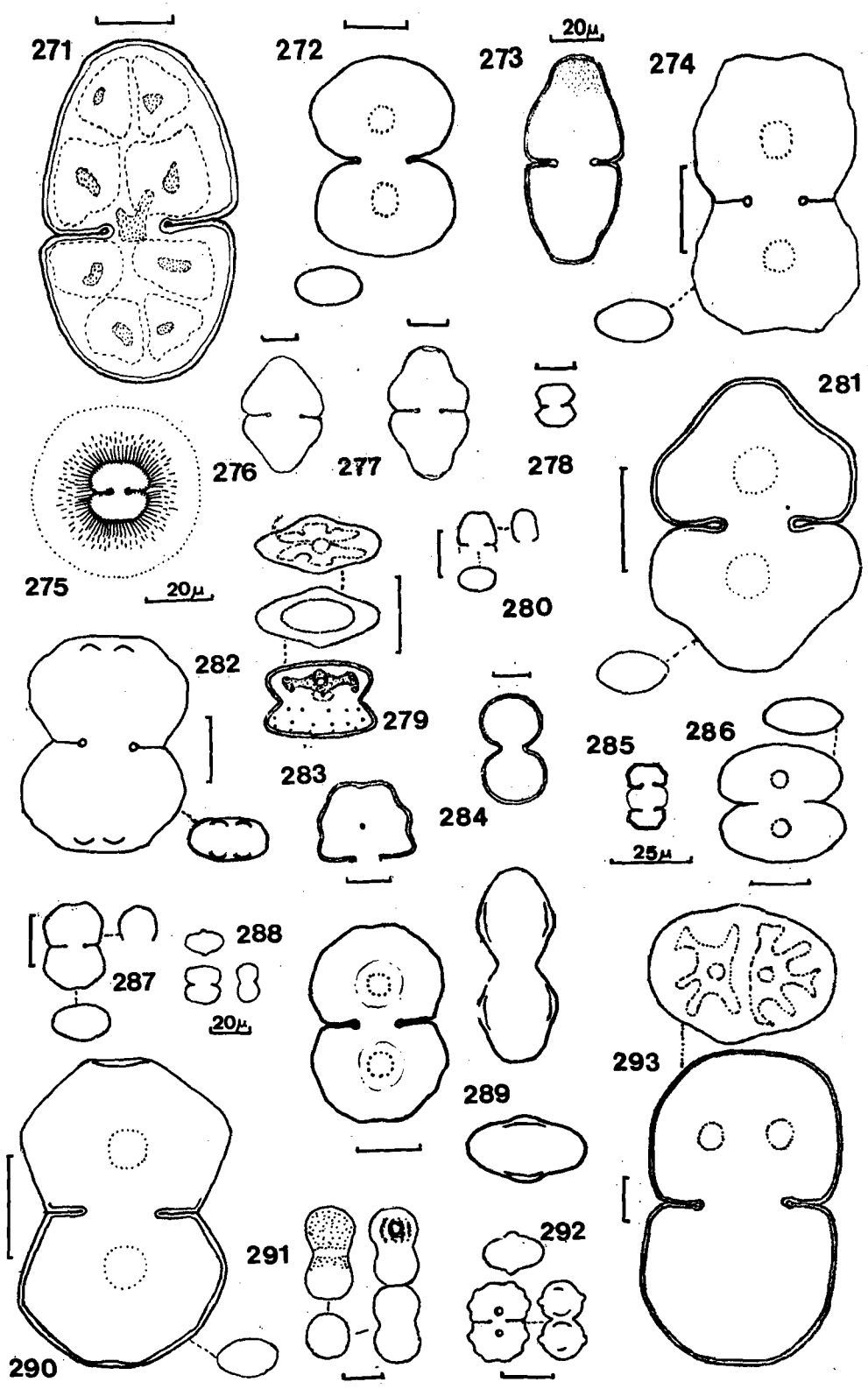
LAMINA XVIII

246. *Cosmarium quadrum* var. *minus* NORDST. (según TAFT)
247. *Cosmarium humile* (GAY) NORDST. (s/CROASDALE)
248. *Cosmarium impressulum* ELFV. (s/ELFVING y REINSCH)
249. *Cosmarium lundellii* var. *ellipticum* WEST (s/KRIEGER)
250. *Cosmarium angulosum* BRÉB. (s/IRENÉE-MARIE)
251. *Cosmarium pusillum* (BRÉB.) ARCH. (s/YACUBSON)
252. *Cosmarium angulosum* var. *concinnum* (RAB.) WEST W. & G. S. WEST
(s/HODGETTS)
253. *Cosmarium pseudodoxum* fa. *minus* YACUBSON (s/YACUBSON)
254. *Cosmarium minimum* WEST W. & G. S. WEST (s/IRENÉE-MARIE)
255. *Cosmarium subdeplanatum* SCHM. (s/IRENÉE-MARIE)
256. *Cosmarium norimbergense* fa. *depressa* WEST W. & G. S. WEST
(s/KRIEGER y BOURRELLY)
257. *Cosmarium regnesii* REINSCH (s/CROASDALE y GRÖNBLAD)
258. *Cosmarium subtumidum* var. *borgei* KRIEG. & GERL. (s/YACUBSON)
259. *Cosmarium amoenum* var. *mediolaeve* NORDST. (s/IRENÉE-MARIE)
260. *Cosmarium phaseolus* BRÉB. (s/YACUBSON)
261. *Cosmarium sinostegos* var. *obtusius* GUTW. (s/CROASDALE y GRÖNBLAD)
262. *Cosmarium blyttii* WILLE (s/YACUBSON)
263. *Cosmarium pygmaeum* ARCH. (s/TAYLOR)
264. *Cosmarium subtumidum* NORDST. (s/YACUBSON)
265. *Cosmarium pachydermum* LUND. (s/TAYLOR)
266. *Cosmarium phaseolus* fa. *minus* BOLDT (s/YACUBSON)
267. *Cosmarium blyttii* var. *sempunctatum* KRIEG. & BOURR. (s/KRIEGER y
BOURRELLY)
268. *Cosmarium repandum* var. *minor* WEST W. & G. S. WEST (s/IRENÉE-
MARIE)
269. *Cosmarium caelatum* var. *spectabile* (DE NOT) NORDST. (s/WEST W.
y G. S. WEST)
270. *Cosmarium commissurale* BRÉB. (s/BOURRELLY)



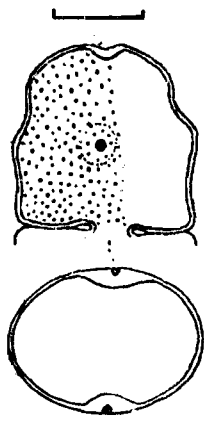
LAMINA XIX

271. *Cosmarium pyramidatum* BRÉB. (según SCOTT, GRÖNBLAD y CROASDALE)
272. *Cosmarium bioculatum* BRÉB. (s/YACUBSON)
273. *Cosmarium pyramidatum* var. *angustatum* WEST fa. (s/DEFLANDRE)
274. *Cosmarium difficile* LÜTK. (s/YACUBSON)
275. *Cosmarium depressum* var. *planctonicum* REV. (s/KRIEGER y GERLOFF)
276. *Cosmarium granatum* BRÉB. fae. (s/DEFLANDRE)
277. *Cosmarium granatum* var. *concauum* LAG. (s/DEFLANDRE)
278. *Cosmarium abbreviatum* var. *minor* WEST W. & G. S. WEST (s/GESSNER)
279. *Cosmarium asphaerosporum* var. *complanatum* KRIEG. & BOURR. (s/KRIEGER y BOURRELLY)
280. *Cosmarium exiguum* var. *pressum* WEST W. & G. S. WEST (s/KRIEGER)
281. *Cosmarium hammeri* REINSCH fa. (s/YACUBSON)
282. *Cosmarium subhammeri* RICH (s/YACUBSON)
283. *Cosmarium venustum* var. *excavatum* (EICHL. & GUTW.) WEST W. & G. S. WEST (s/KRIEGER)
284. *Cosmarium moniliforme* fa. *punctata* LAGERH. (s/DEFLANDRE)
285. *Cosmarium regnellii* fa. *minor* BOLDT (s/MARGALEF, división anormal)
286. *Cosmarium depressum* (NÄG.) LUND. (s/YACUBSON)
287. *Cosmarium pseudoprotuberans* var. *angustius* NORDST. fa. (s/KRIEGER)
288. *Cosmarium phaseolus* var. *minutum* BISW. (s/GESSNER)
289. *Cosmarium laeve* var. *meridense* YACUBSON (s/YACUBSON)
290. *Cosmarium pseudoprotuberans* var. *angustius* NORDST. fa. (s/YACUBSON)
291. *Cosmarium moniliforme* fa. *panduriformis* HEIMERL (s/KRIEGER y GERLOFF)
292. *Cosmarium subreinschii* SCHM. (s/KRIEGER)
293. *Cosmarium subcucumis* var. *tumidum* KRIEG. & BOURR. (s/KRIEGER)

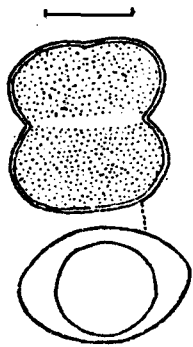


LAMINA XX

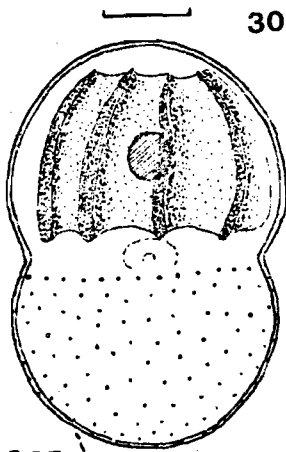
294. *Cosmarium venustum* var. *excavatum* (EICHL. & GUTW.) WEST W & G. S. WEST fa. (según KRIEGER y BOURRELLY)
295. *Cosmarium annulatum* (NÄG.) DE BARY (s/WEST W. y G. S. WEST)
296. *Cosmarium logiense* BISS. (s/DEFLANDRE)
297. *Cosmarium pseudamoenum* var. *basilare* NORDST. fa. (s/KRIEGER y BOURRELLY)
298. *Cosmarium subarctoum* (LAG.) RAC. fa. (s/KRIEGER y BOURRELLY)
299. *Cosmarium brébissonii* MENEGH. fa. (s/RALFS)
300. *Cosmarium formosulum* var. *nathorstii* (BOLDT) WEST W. & G. S. WEST (s/MARGALEF)
301. *Actinotaenium trachypolum* var. *messikommeri* TEIL. (s/KRIEGER)
302. *Actinotaenium lagenarioides* (ROY & BISS.) TEIL. (s/KRIEGER y BOURRELLY)
303. *Actinotaenium globosum* var. *subaltum* MESSIK. fa. (s/KRIEGER y BOURRELLY)
304. *Actinotaenium inconspicuum* (W.) TEIL. (s/TEILING)
305. *Actinotaenium wollei* (GRÖNBL.) TEIL. (s/KRIEGER y BOURRELLY)
306. *Actinotaenium cucurbitinum* var. *magellanicum* (BORGE) TEIL. (s/KRIEGER)
307. *Actinotaenium cucurbita* (BRÉB.) TEIL. (s/YACUBSON)
308. *Actinotaenium cruciferum* (DE BARY) TEIL. (s/PRESCOTT)
309. *Actinotaenium cucurbita* var. *robustum* KRIEG. (s/KRIEGER y BOURRELLY)



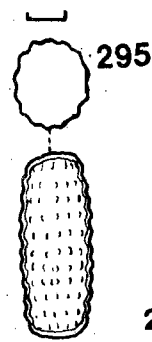
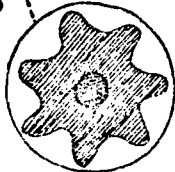
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298

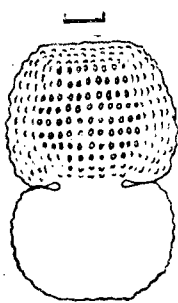


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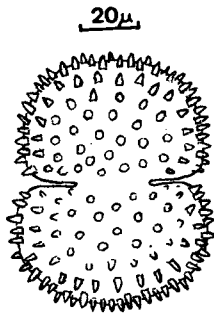
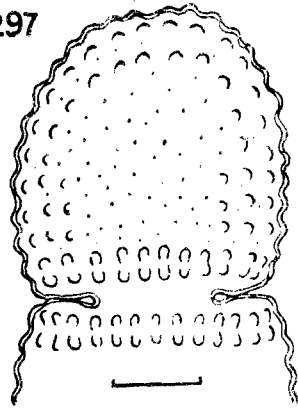


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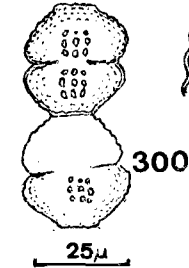
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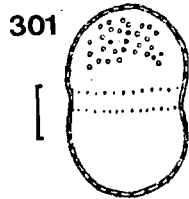
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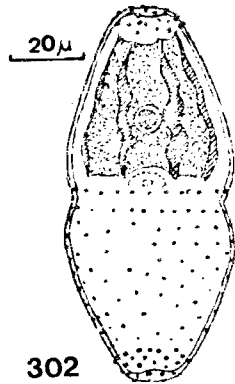
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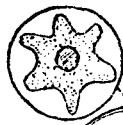
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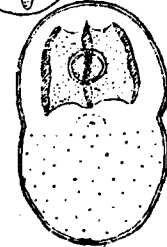
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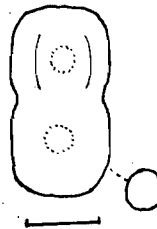
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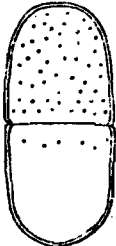
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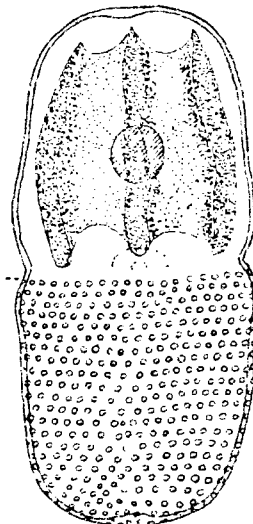
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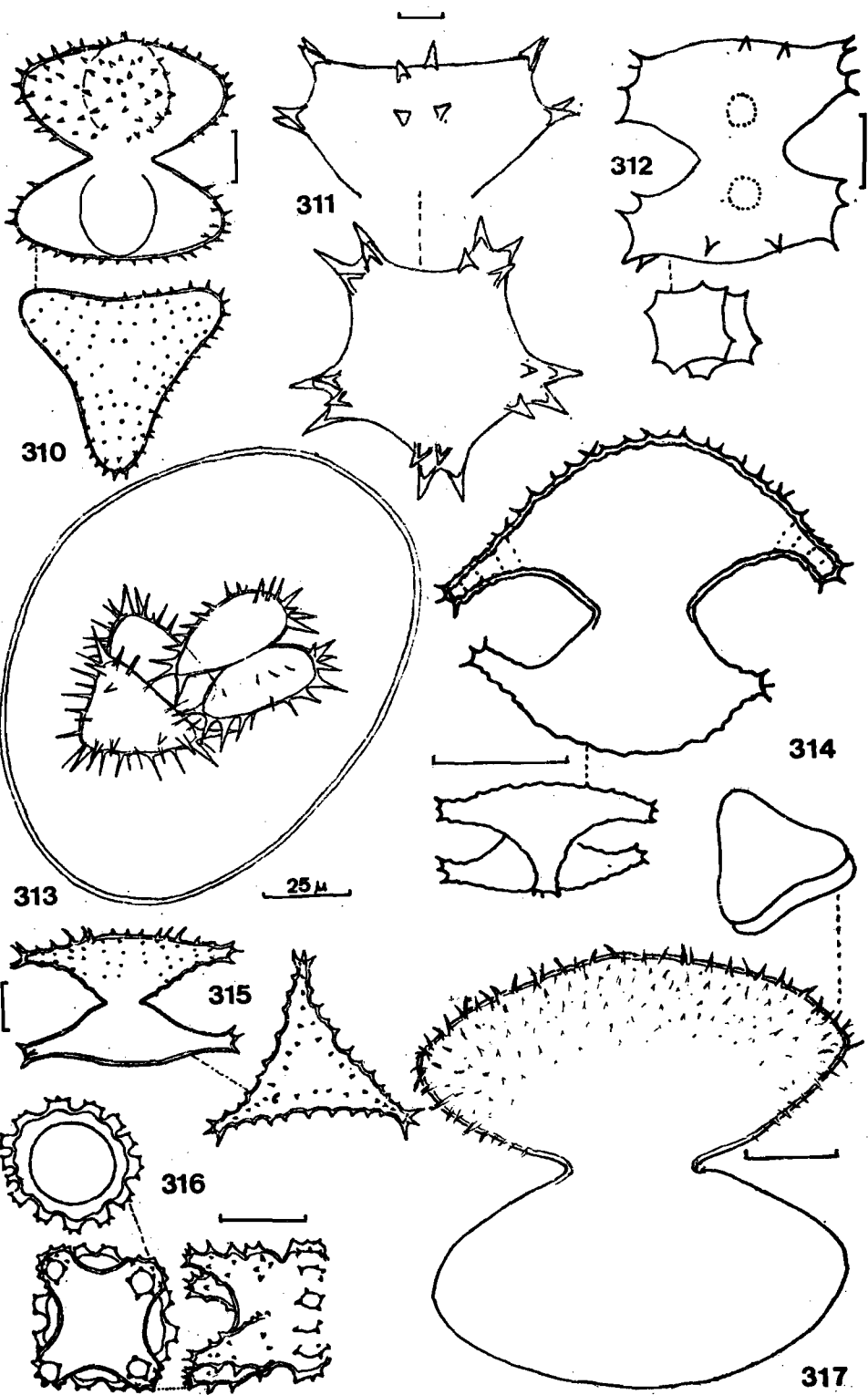


309



LAMINA XXI

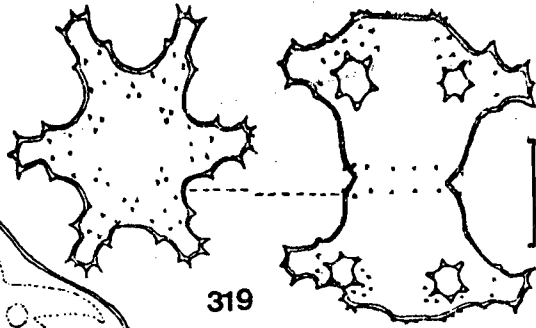
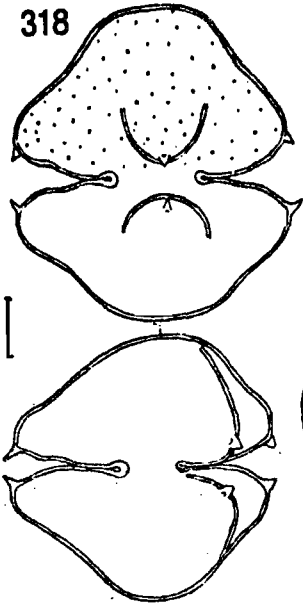
310. *Staurastrum erasum* BRÉB. (según KRIEGER)
311. *Staurastrum sinuatum* BORGE (s/DEFLANDRE)
312. *Staurastrum quadrangulare* BRÉB. (s/YACUBSON)
313. *Staurastrum setigerum* CLEVE (s/MARGALEF)
314. *Staurastrum oxyacanthum* ARCH. (s/YACUBSON)
315. *Staurastrum subcontroversum* KRIEG. & BOURR. (s/KRIEGER)
316. *Staurastrum donellii* var. *erectum* KRIEG. (s/KRIEGER y BOURRELLY)
317. *Staurastrum pilosum* (NÄG.) ARCH. (s/YACUBSON)



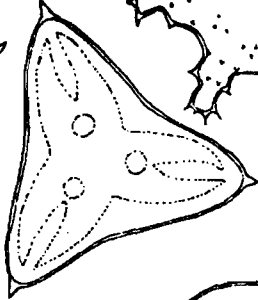
LAMINA XXII

318. *Staurastrum gibberum* KRIEG. & BOURR. (según KRIEGER)
319. *Staurastrum margaritaceum* (EHR.) MENEGH. fa. (s/KRIEGER y BOURRELLY)
320. *Staurastrum subcontroversum* KRIEG. & BOURR. fa. (s/KRIEGER y BOURRELLY)
321. *Staurastrum botrophilum* WOLLE (s/KRIEGER)
322. *Staurastrum laevispinum* BISS. fa. (s/KRIEGER y BOURRELLY)
323. *Staurastrum sebaldi* var. *ornatum* fa. *elongata* KRIEG. & BOURR. (s/KRIEGER)
324. *Staurastrum sebaldi* REINSCH fa. (s/DEFLANDRE)
325. *Staurastrum irregulare* var. *spinosum* KRIEG. & BOURR. (s/KRIEGER y BOURRELLY)
326. *Staurastrum leptocladum* var. *cornutum* WILLE (s/DEFLANDRE)

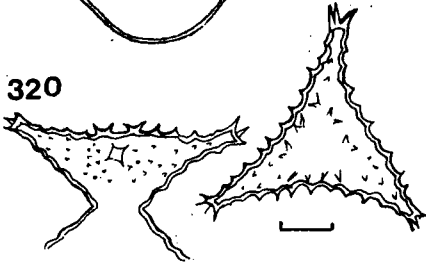
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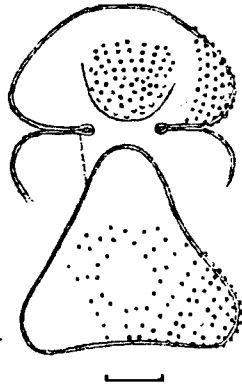
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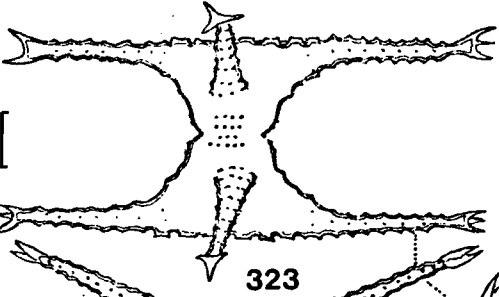
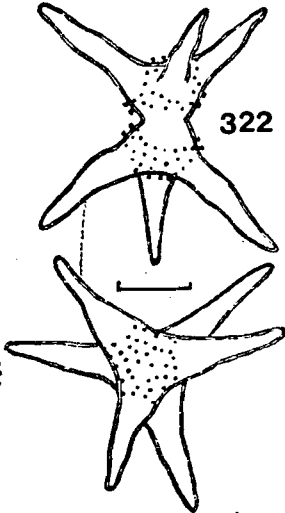
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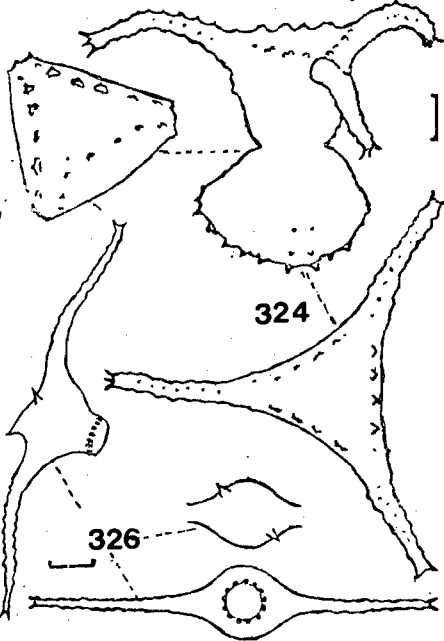
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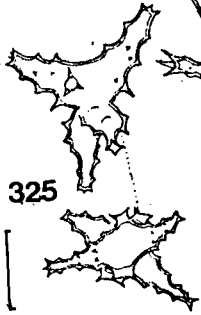


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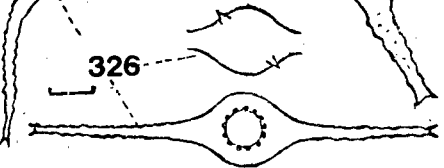


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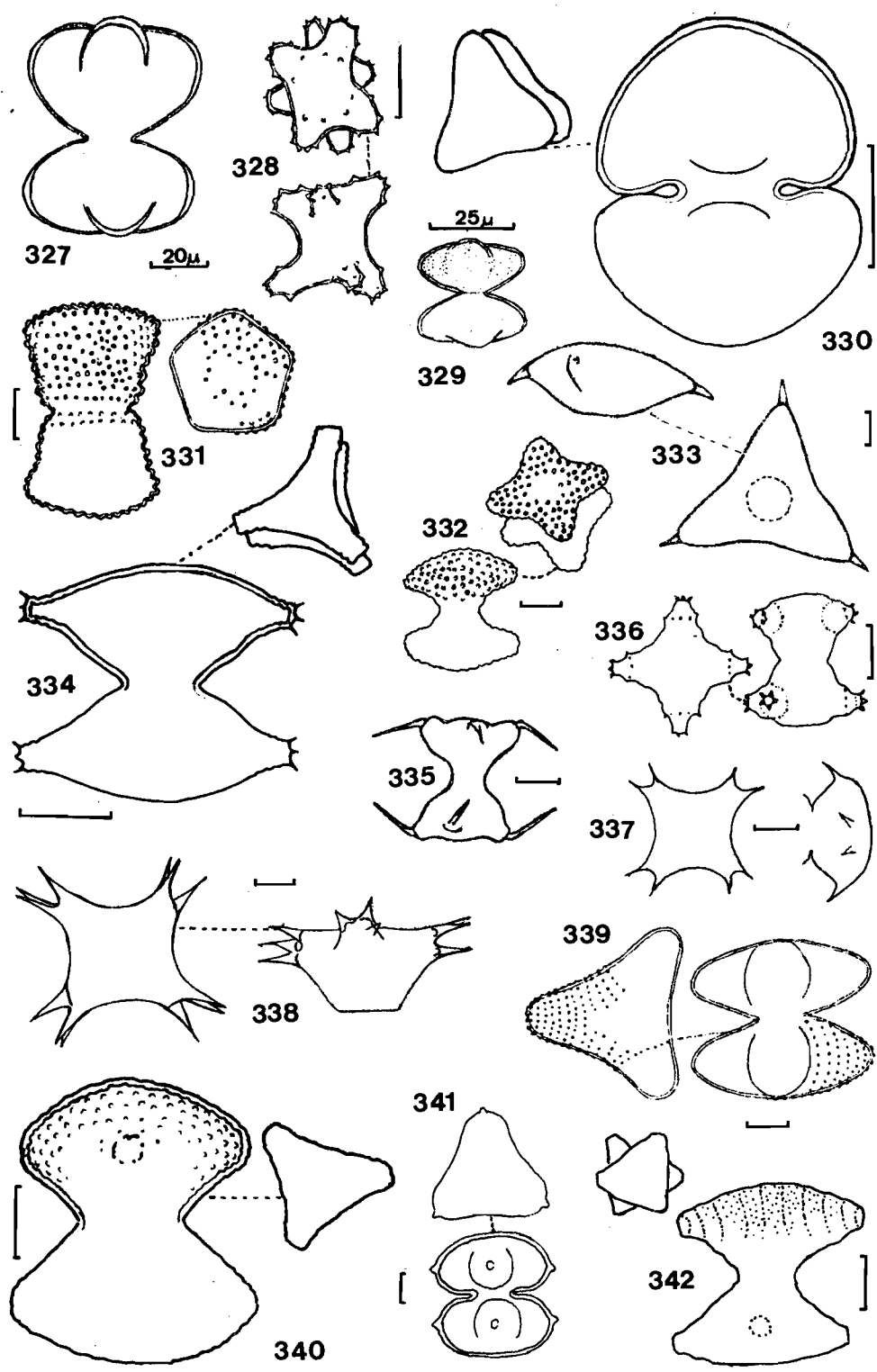


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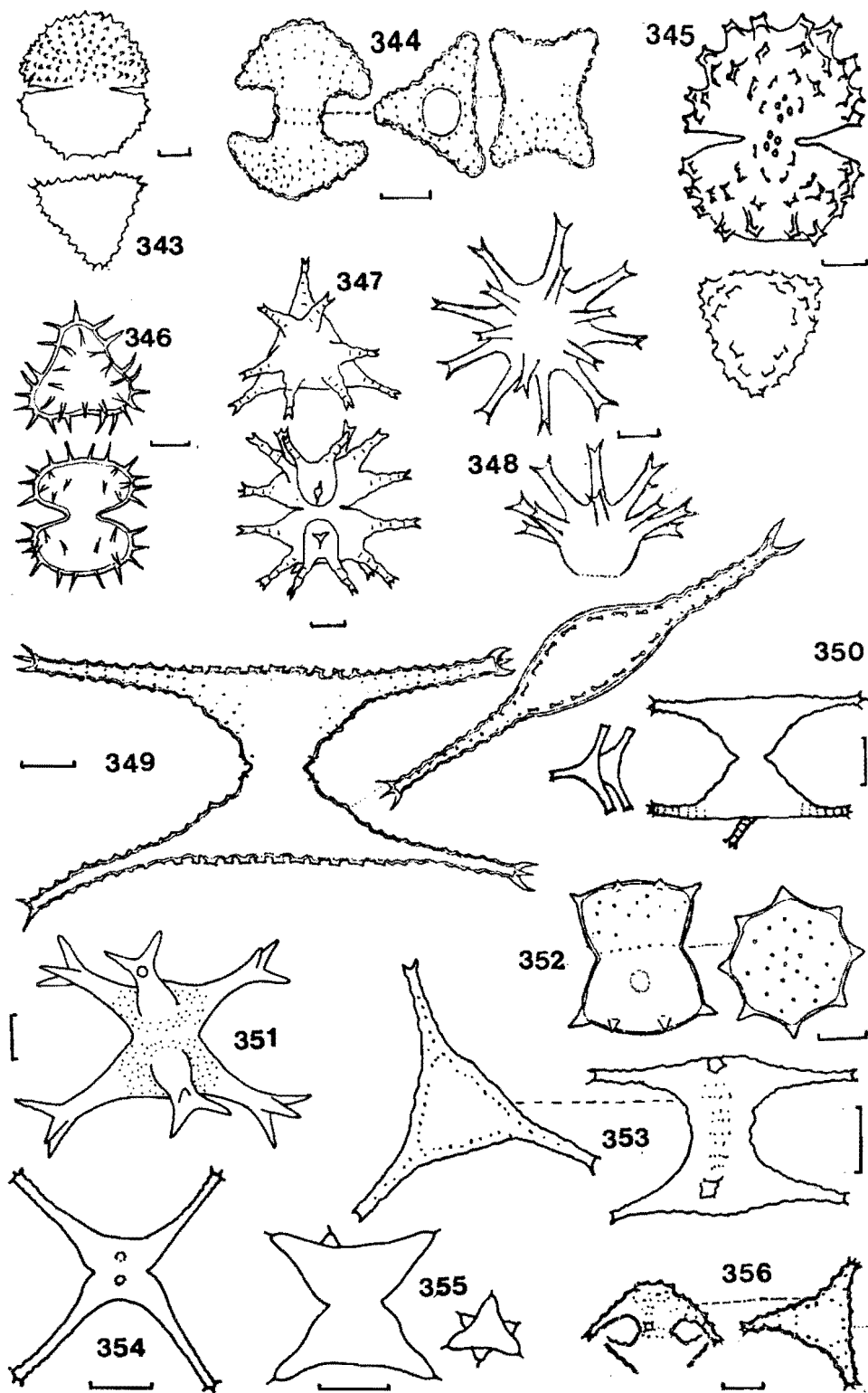
LAMINA XXIII

327. *Staurastrum subgrande* var. *aversum* GRÖNBL. fa. (según KRIEGER y BOURRELLY)
328. *Staurastrum crux alternans* WEST W. & G. S. WEST fa. (s/KRIEGER y BOURRELLY)
329. *Staurastrum muticum* BRÉB. fa. (s/MARGALEF)
330. *Staurastrum orbiculare* RALFS (s/YACUBSON)
331. *Staurastrum merianii* REINSCH (s/KRIEGER)
332. *Staurastrum dilatatum* EHR. (s/CROASDALE)
333. *Staurastrum dickiei* var. *maximum* WEST W. & G. S. WEST (s/DEFLANDRE)
334. *Staurastrum hexacerum* (EHR.) WITTR (s/YACUBSON)
335. *Staurastrum mamillatum* NORDST. (s/DEFLANDRE)
336. *Staurastrum polymorphum* BRÉB. (s/SCOTT, GRÖNBLAD y CROASDALE)
337. *Staurastrum bifidum* fa. *tetragona* DEFL. (s/DEFLANDRE)
338. *Staurastrum brasiliense* NORDST. (s/DEFLANDRE)
339. *Staurastrum lapponicum* (SCHMID.) GRÖNBL. fa. (s/KRIEGER)
340. *Staurastrum punctulatum* BRÉB. (s/YACUBSON)
341. *Staurastrum brevispinum* BRÉB. (s/IRENÉE-MARIE)
342. *Staurastrum alternans* BRÉB. (s/YACUBSON)



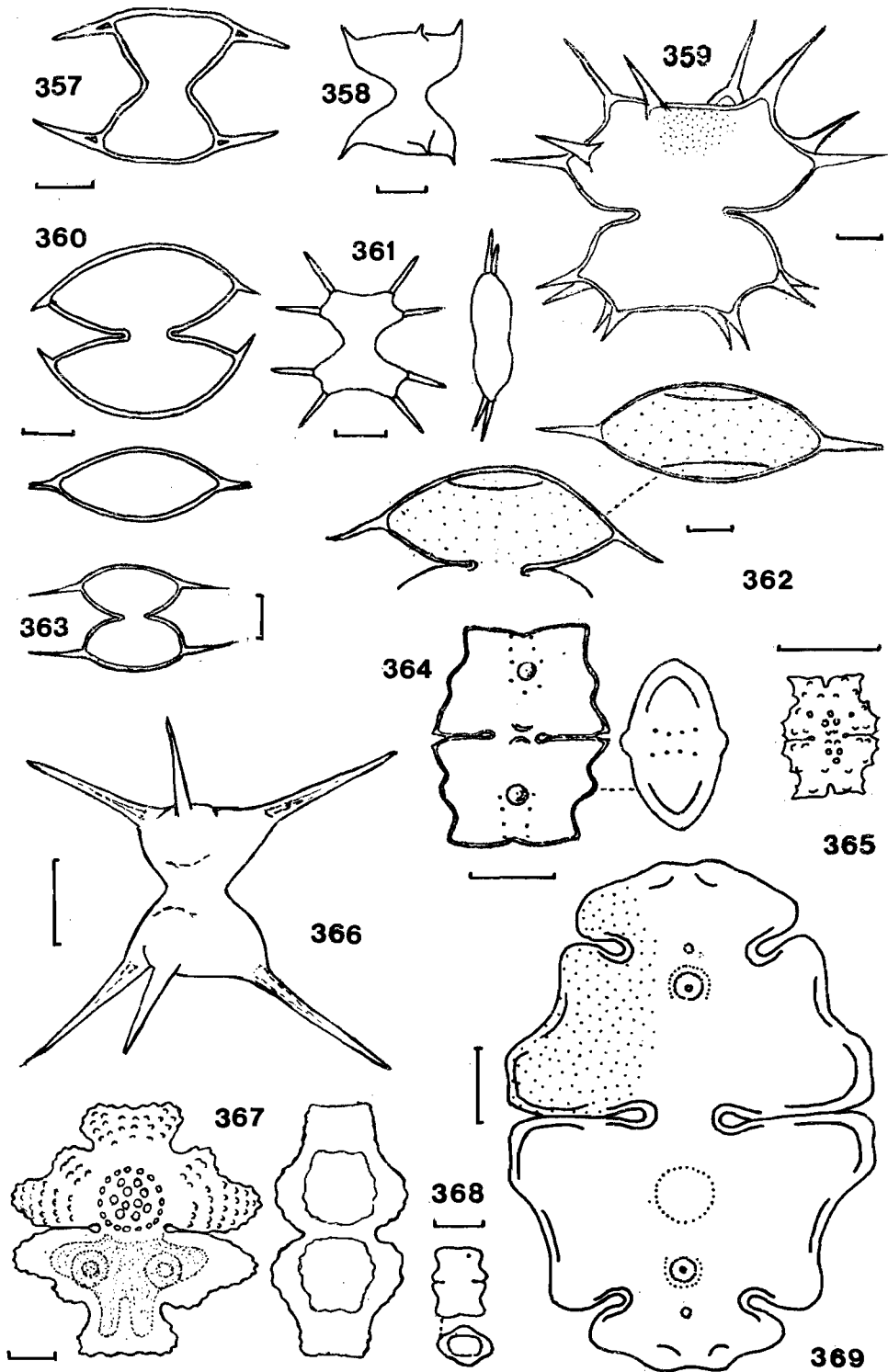
LAMINA XXIV

- 343. *Staurastrum subscabrum* NORDST. (según IRENÉE-MARIE)
- 344. *Staurastrum paulense* var. *ornatum* KRIEG. (s/KRIEGER)
- 345. *Staurastrum spongiosum* BRÉB. (s/WEST W. y G. S. WEST)
- 346. *Staurastrum teliferum* RALFS (s/PRESCOTT y SCOTT)
- 347. *Staurastrum furcigerum* fa. *armigerum* (BRÉB.) NORDST. (s/IRENÉE-MARIE)
- 348. *Staurastrum leptacanthum* NORDST. fa. (s/DEFLANDRE)
- 349. *Staurastrum sebaldi* var. *ornatum* fa. *elongata* KRIEG. & BOURR., forma *birradiata* (s/KRIEGER y BOURRELLY)
- 350. *Staurastrum gracile* RALFS (s/YACUBSON)
- 351. *Staurastrum brachiatum* RALFS (s/SCOTT, GRÖNBLAD y CROASDALE)
- 352. *Staurodesmus wandae* var. *brevispinus* (GRÖNBL.) BOURR. (s/KRIEGER)
- 353. *Staurastrum manfeldtii* DELP. (s/GESSNER)
- 354. *Staurastrum tetracerum* RALFS (s/YACUBSON)
- 355. *Staurodesmus pterosporus* (LUND.) BOURR. (s/YACUBSON)
- 356. *Staurastrum brachycerum* BRÉB. var. (s/KRIEGER)



LAMINA XXV

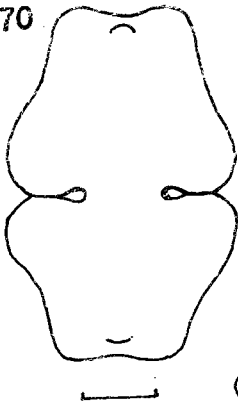
357. *Staurodesmus glabrus* subsp. *brébissonii* (RAC.) TEIL. (según CROASDALE y GRÖNBLAD)
358. *Staurodesmus dejectus* (BRÉB.) TEIL. (s/CROASDALE y GRÖNBLAD)
359. *Xanthidium antilopaeum* (BRÉB.) KÜTZ. (s/DEFLANDRE)
360. *Arthrodesmus convergens* EHR. (s/YACUBSON)
361. *Arthrodesmus octocornis* EHR. (s/CROSDALE y GRÖNBLAD)
362. *Arthrodesmus convergens* var. *incrassatus* GUTW. (s/KRIEGER y BOURRELLY)
363. *Arthrodesmus subulatus* KÜTZ. fa. (s/DEFLANDRE)
364. *Euastrum bipapillatum* GRÖNBL. (s/KRIEGER y BOURRELLY)
365. *Euastrum denticulatum* (KIRCH.) GAY (s/PRESCOTT)
366. *Staurodesmus indentatus* subsp. *indentatus* (WEST W. & G. S. WEST) TEIL. (s/TEILING)
367. *Euastrum spinulosum* DELP. fa. (s/DEFLANDRE)
368. *Euastrum sublobulatum* var. *minus* KRIEG. & BOURR. (s/KRIEGER)
369. *Euastrum marianopoliense* IREN. MAR. (s/YACUBSON)



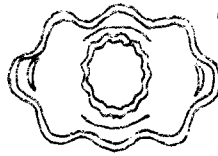
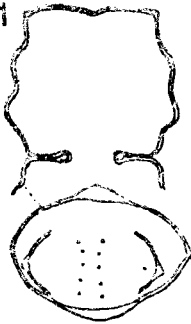
LAMINA XXVI

370. *Euastrum huelkemuelleri* DUCCELL. (según YACUBSON)
371. *Euastrum montanum* WEST W. & G. S. WEST. (s/KRIEGER y BOURRELLY)
372. *Euastrum attenuatum* var. *lithuanicum* fa. *pulchellum* PRESC. & SCOTT (s/PRESCOTT y SCOTT)
373. *Euastrum binale* var. *hians* W. WEST (s/KRIEGER)
374. *Euastrum insulare* var. *silesiacum* fa. *minus* PRESC. & SCOTT (s/KRIEGER)
375. *Euastrum binale* var. *gutwinskii* SCHM. (s/CROASDALE y GRÖNBLAD)
376. *Euastrum elegans* var. *topakoomae* KRIEG. (s/KRIEGER)
377. *Euastrum insulare* (WITTR.) ROY (s/CROASDALE)
378. *Euastrum evolutum* (NORDST.) WEST fa. (s/DEFLANDRE)
379. *Euastrum ventricosum* LUND. fa. (s/KRIEGER y BOURRELLY)
380. *Euastrum didelta* RALFS (s/PRESCOTT y SCOTT)
381. *Euastrum* cf. *quadratum* NORDST (s/MARGALEF)
382. *Euastrum bidentatum* NÄG. (s/CROASDALE)
383. *Euastrum bidentatum* var. *speciosum* (BOLDT) SCHM. (s/KRIEGER y BOURRELLY)

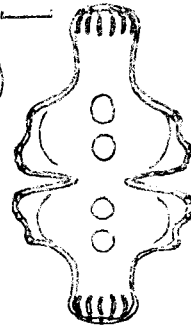
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371



372



376



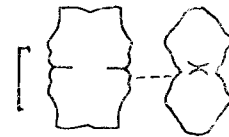
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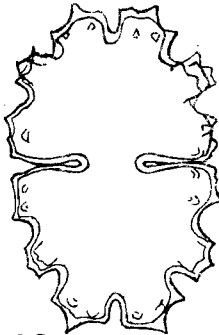
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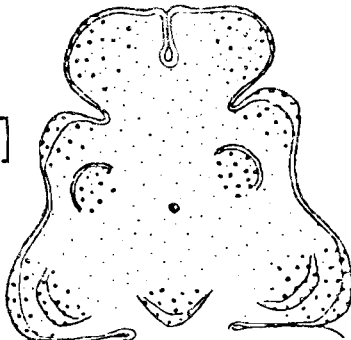
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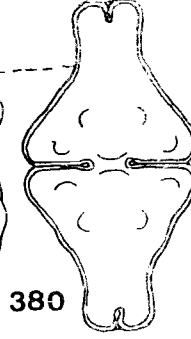
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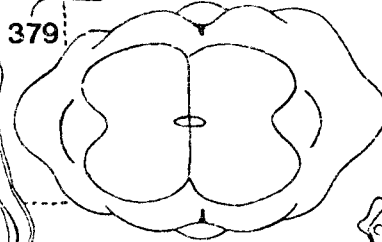
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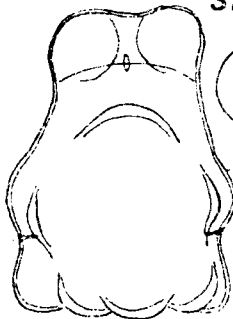


30 μ

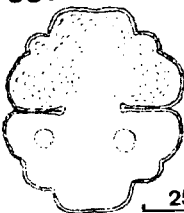


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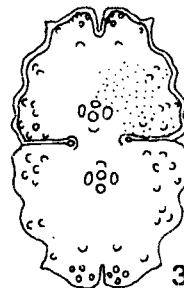
20 μ



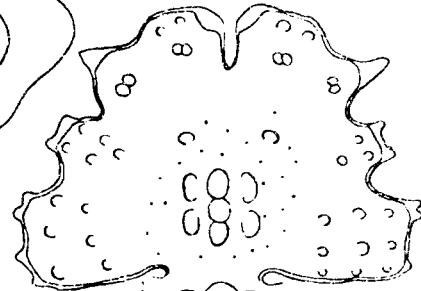
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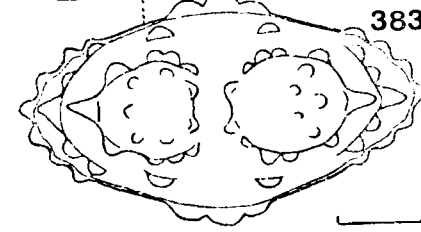
25 μ



382

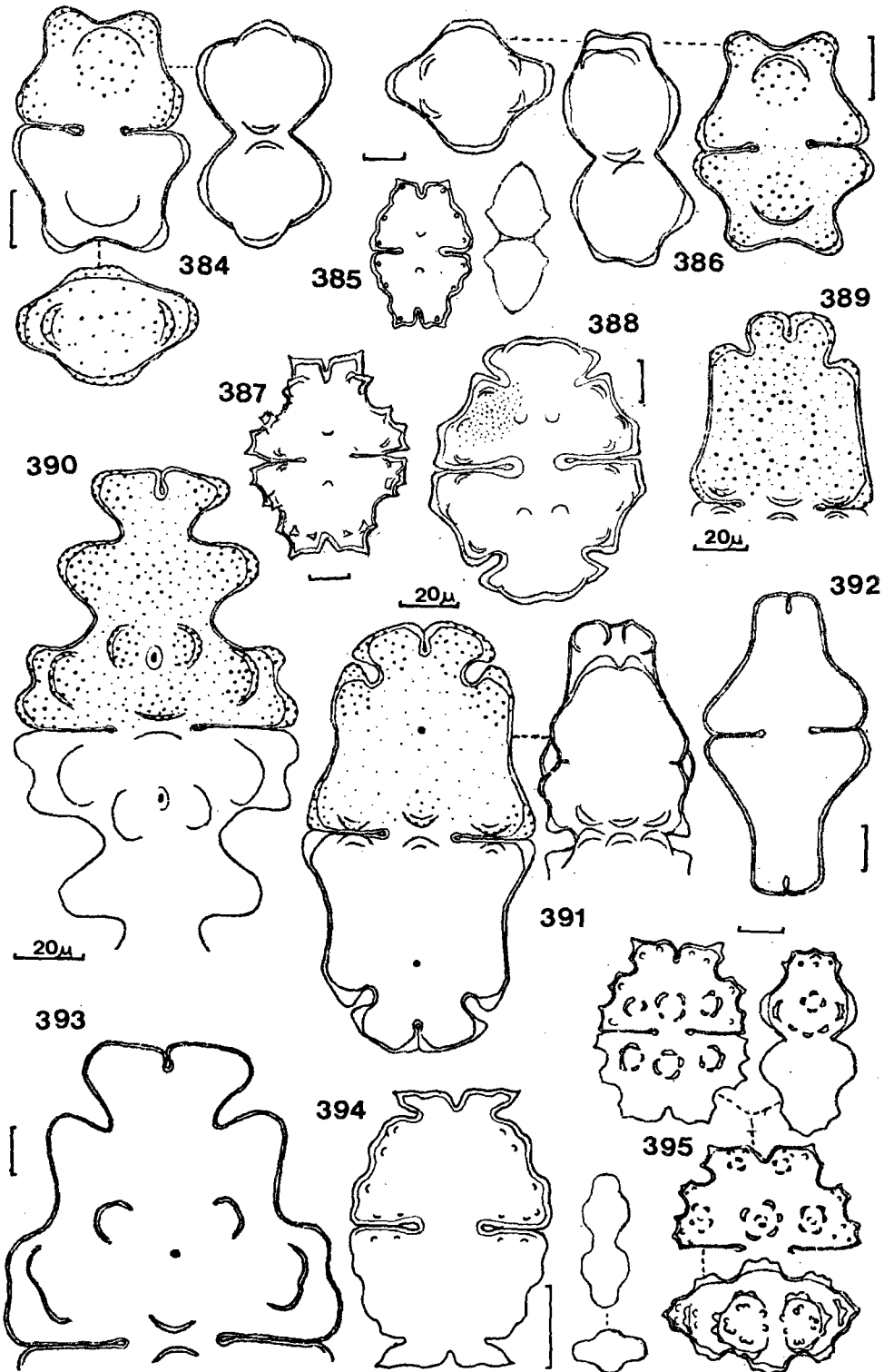


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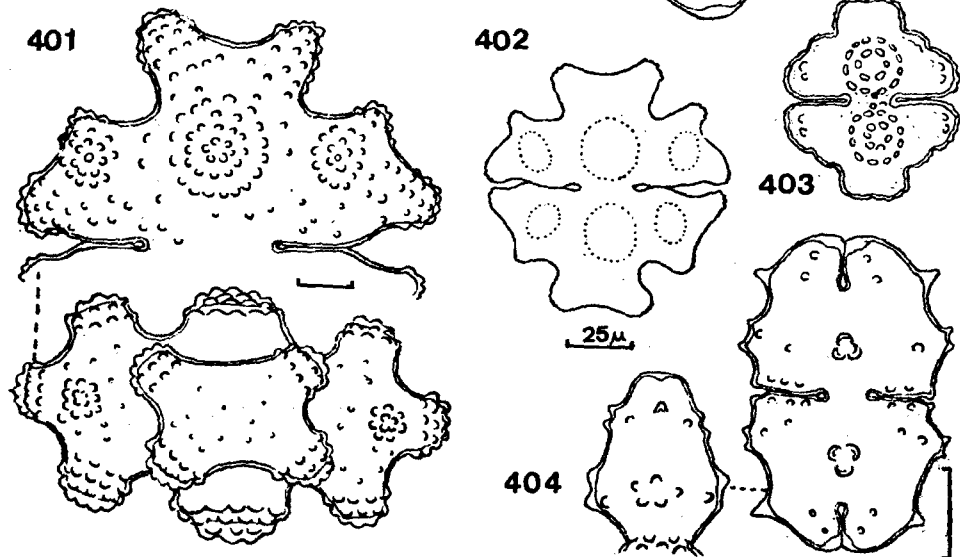
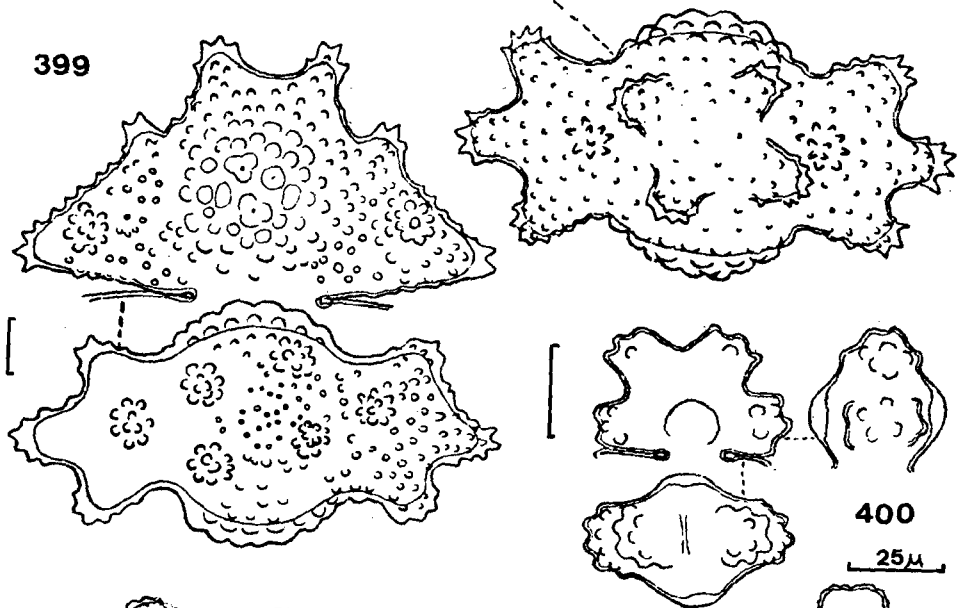
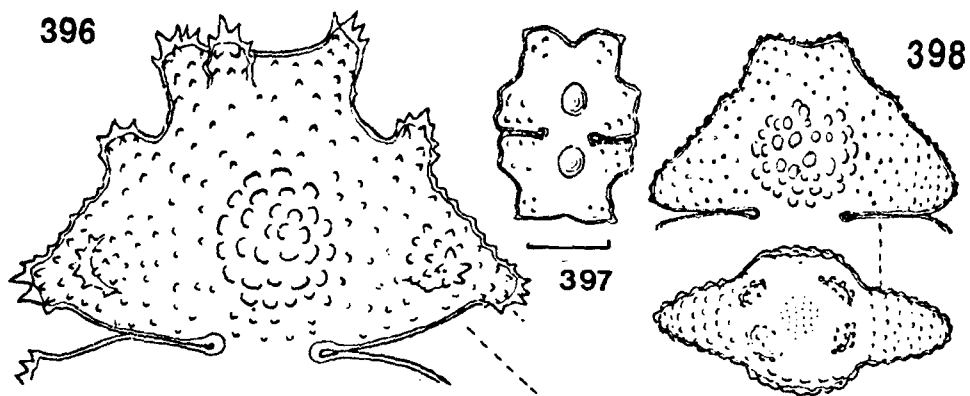
LAMINA XXVII

- 384. *Euastrum gessneri* KRIEG. & BOURR. (según KRIEGER y BOURRELLY)
- 385. *Euastrum elegans* (BRÉB.) KÜTZ. fa. (s/DEFLANDRE)
- 386. *Euastrum gessneri* var. *quadricapitatum* KRIEG. & BOURR. (s/KRIEGER y BOURRELLY)
- 387. *Euastrum octangulare* fa. *minor* DEFL. (s/DEFLANDRE)
- 388. *Euastrum subintegrum* NORDST fa. (s/DEFLANDRE)
- 389. *Euastrum crassum* (BRÉB.) KÜTZ fa. (s/KRIEGER y BOURRELLY)
- 390. *Euastrum pinnatum* RALFS (s/KRIEGER)
- 391. *Euastrum crassum* var. *scrobiculatum* LUND. (s/KRIEGER y BOURRELLY)
- 392. *Euastrum ansatum* fa. BERGE (s/DEFLANDRE)
- 393. *Euastrum humerosum* RALFS (s/KRIEGER y BOURRELLY)
- 394. *Euastrum turneri* W. WEST (s/YACUBSON)
- 395. *Euastrum octogibbum* var. *ornatum* KRIEG. & BOURR. (s/KRIEGER y BOURRELLY)



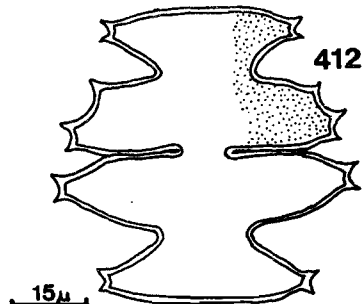
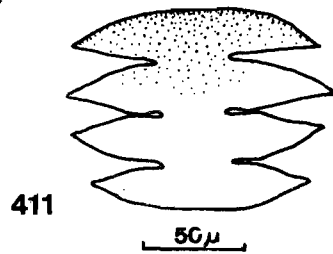
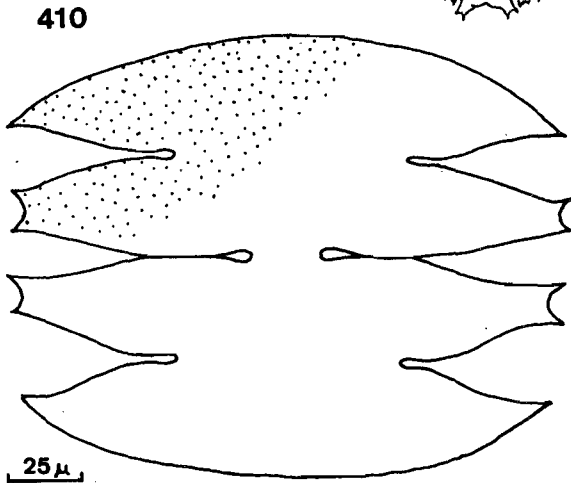
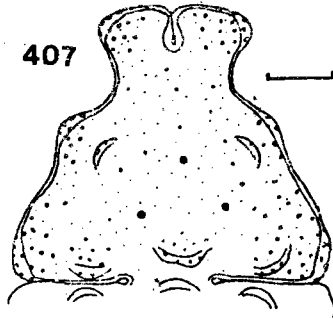
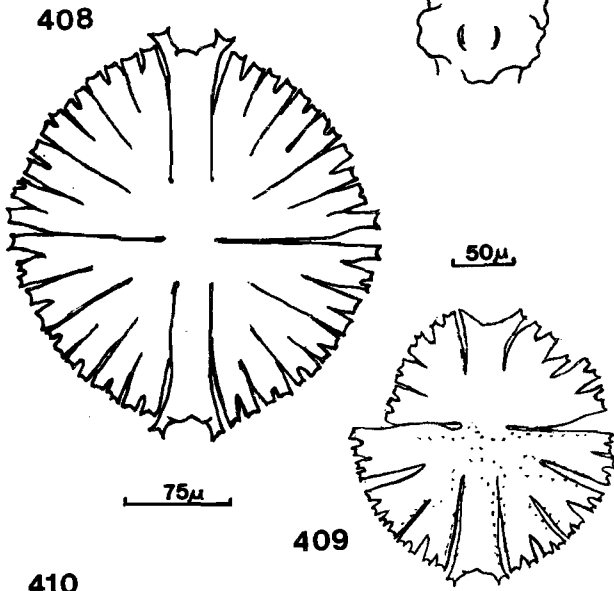
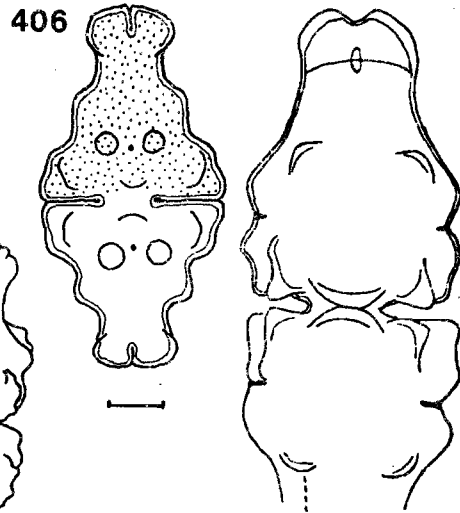
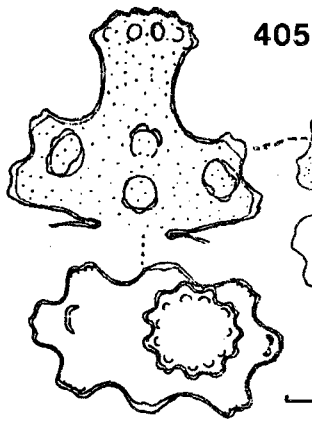
LAMINA XXVIII

396. *Euastrum verrucosum* var. *rhomboideum* LUND. (según KRIEGER y BOURRELLY)
397. *Euastrum subalpinum* var. *crassum* KRIEG. & BOURR. (s/KRIEGER y BOURRELLY)
398. *Euastrum verrucosum* var. *groenlandicum* LARSEN fa. (s/KRIEGER y BOURRELLY)
399. *Euastrum verrucosum* var. *pterygoideum* HUB.-PEST. (s/KRIEGER)
400. *Euastrum valdajense* var. *ornatum* KRIEG. & BOURR. (s/KRIEGER y BOURRELLY)
- 401-402. *Euastrum verrucosum* var. *alatum* WOLLE (s/KRIEGER y BOURRELLY)
403. *Euastrum hypochondrum* NORDST. (s/MARGALEF)
404. *Euastrum elegans* (BRÉB.) KÜTZ (s/KRIEGER y BOURRELLY)



LAMINA XXIX

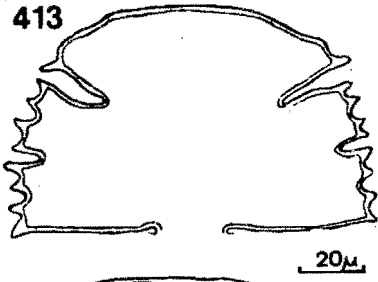
- 405. *Euastrum splendens* FRITSCH & RICH (según KRIEGER y BOURRELLY)
- 406. *Euastrum affine* RALFS (s/PRESCOTT y SCOTT)
- 407. *Euastrum ampullaceum* RALFS (s/KRIEGER y BOURRELLY)
- 408. *Micrasterias rotata* (GREV.) RALFS (s/PRESCOTT y SCOTT)
- 409. *Micrasterias rotata* (GREV.) RALFS fa. (s/DEFLANDRE)
- 410. *Micrasterias laticeps* NORDST. (s/YACUBSON)
- 411. *Micrasterias laticeps* NORDST. fae. (s/DEFLANDRE)
- 412. *Micrasterias pinnatifida* (KÜTZ.) RALFS (s/SCOTT, GRÖNBLAD y CROAS-DALE)



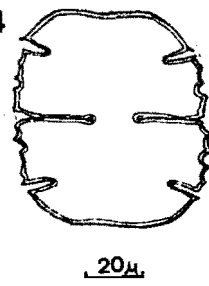
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413. *Micrasterias truncata* (CORDA) BRÉB. (según KRIEGER)
414. *Micrasterias truncata* var. *neodamensis* (A. BR.) DICK. (s/KRIEGER y BOURRELLY)
415. *Micrasterias truncata* var. *bahusiensis* WITTR. fa. (s/KRIEGER y BOURRELLY)
416. *Micrasterias truncata* var. *bahusiensis* WITTR. (s/KRIEGER y BOURRELLY)
417. *Micrasterias tetraptera* var. *taylori* KRIEG. (s/KRIEGER y BOURRELLY)
418. *Micrasterias truncata* var. *turgida* TAYLOR (s/KRIEGER y BOURRELLY)
419. *Micrasterias novae terrae* var. *speciosa* (WOLLE) KRIEG. & BOURR. (s/KRIEGER)
420. *Micrasterias novae terrae* (CUSHM.) KRIEG. (s/KRIEGER)
421. *Micrasterias denticulata* var. *abrupta* KRIEG. & BOURR (s/KRIEGER y BOURRELLY)
422. *Micrasterias truncata* (CORDA) BRÉB. fa. (s/KRIEGER y BOURRELLY)

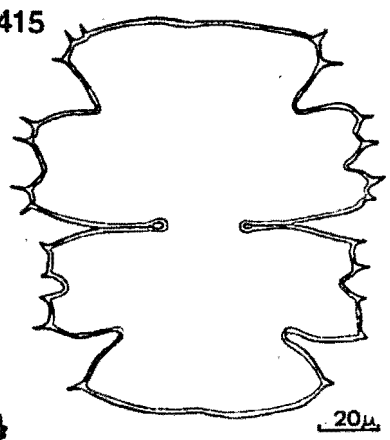
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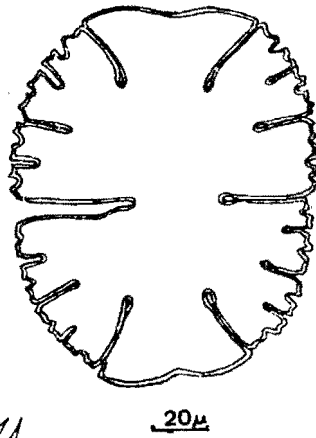
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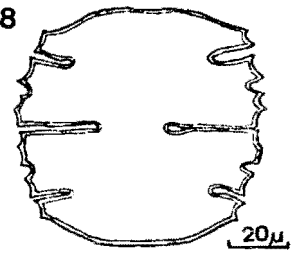
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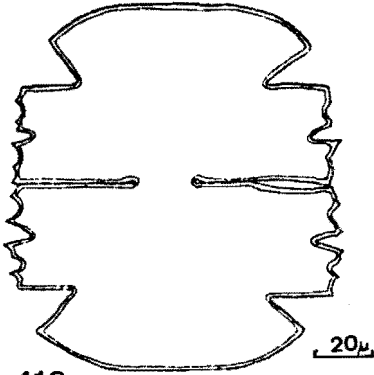
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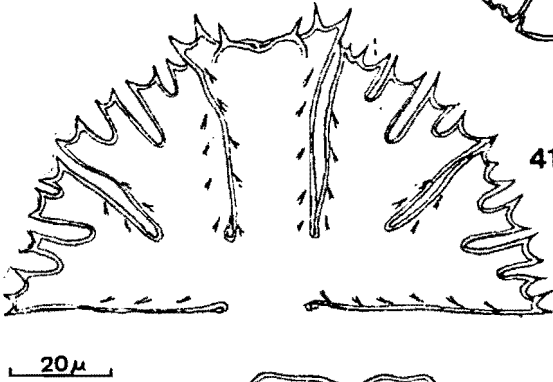
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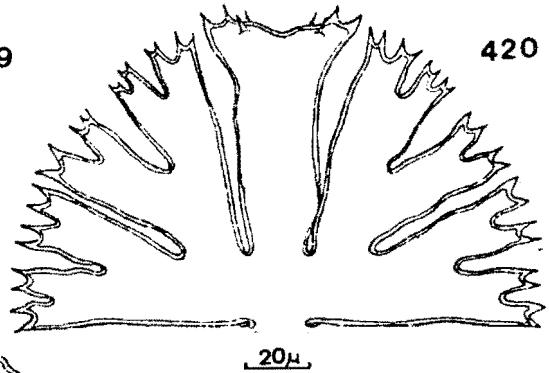
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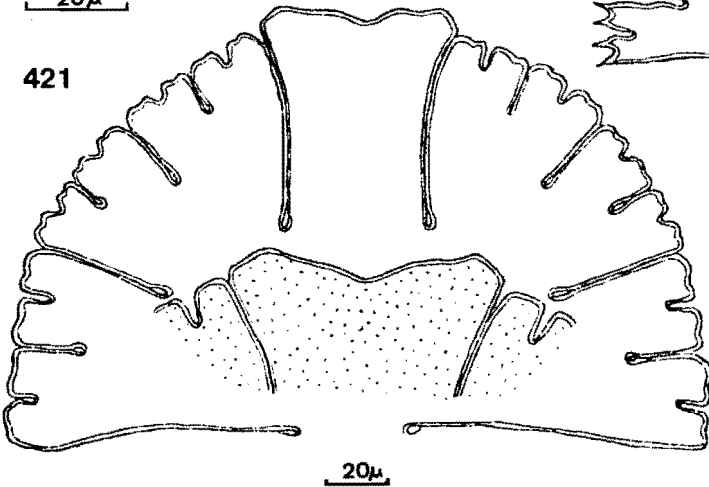
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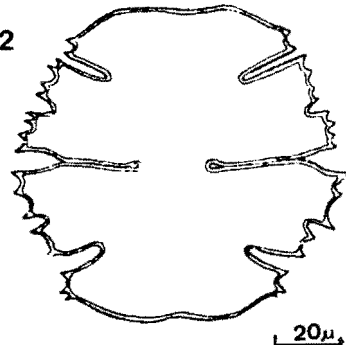
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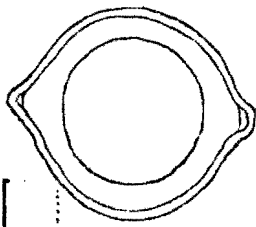


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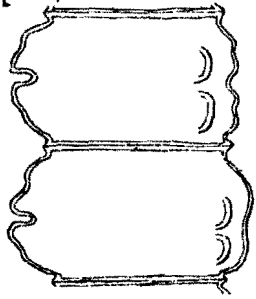


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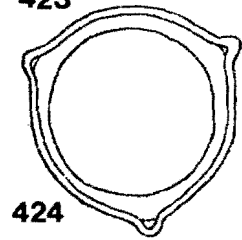
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425. *Cosmocladium pusillum* HILSE (s/YACUBSON)
426. *Sphaerosoma aubertianum* var. *archeri* (GUTW.) WEST W. & G. S. WEST (s/WEST W. y G. S. WEST)
427. *Desmidiium swartzii* var. *quadrangulatum* (RALFS) ROY & BISS. (s/PRESCOTT)
428. *Bambusina borneri* (RALFS) CLEVE (s/CROASDALE y GRÖNBLAD)
429. *Onychonema laeve* NORDST. (s/WEST & CARTER)
430. *Onychonema laeve* NORDST. (s/DEFLANDRE)
431. *Desmidiium swartzii* AG. (s/PRESCOTT)
432. *Sphaerosoma granulatum* ROY & BISS. (s/PRESCOTT y SCOTT)
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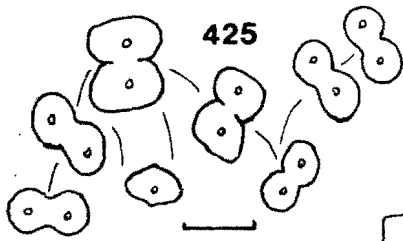
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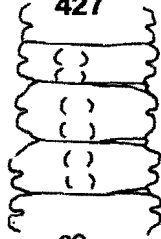
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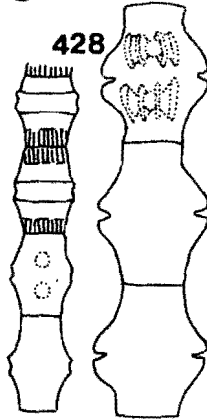
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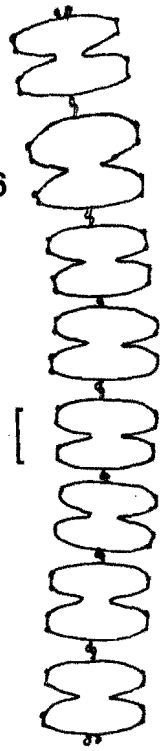
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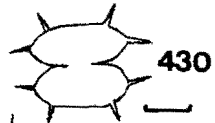
20μ



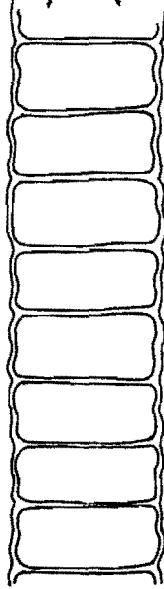
20μ



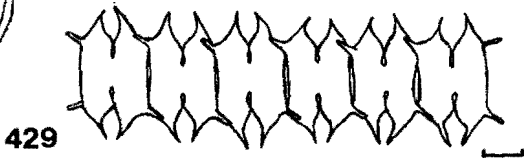
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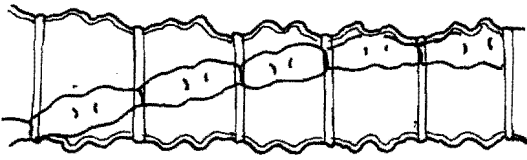
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432



433



15μ

434

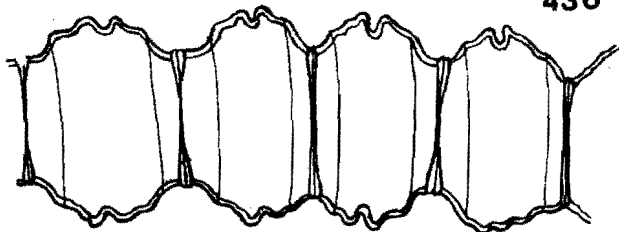


30μ



436

435



437

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