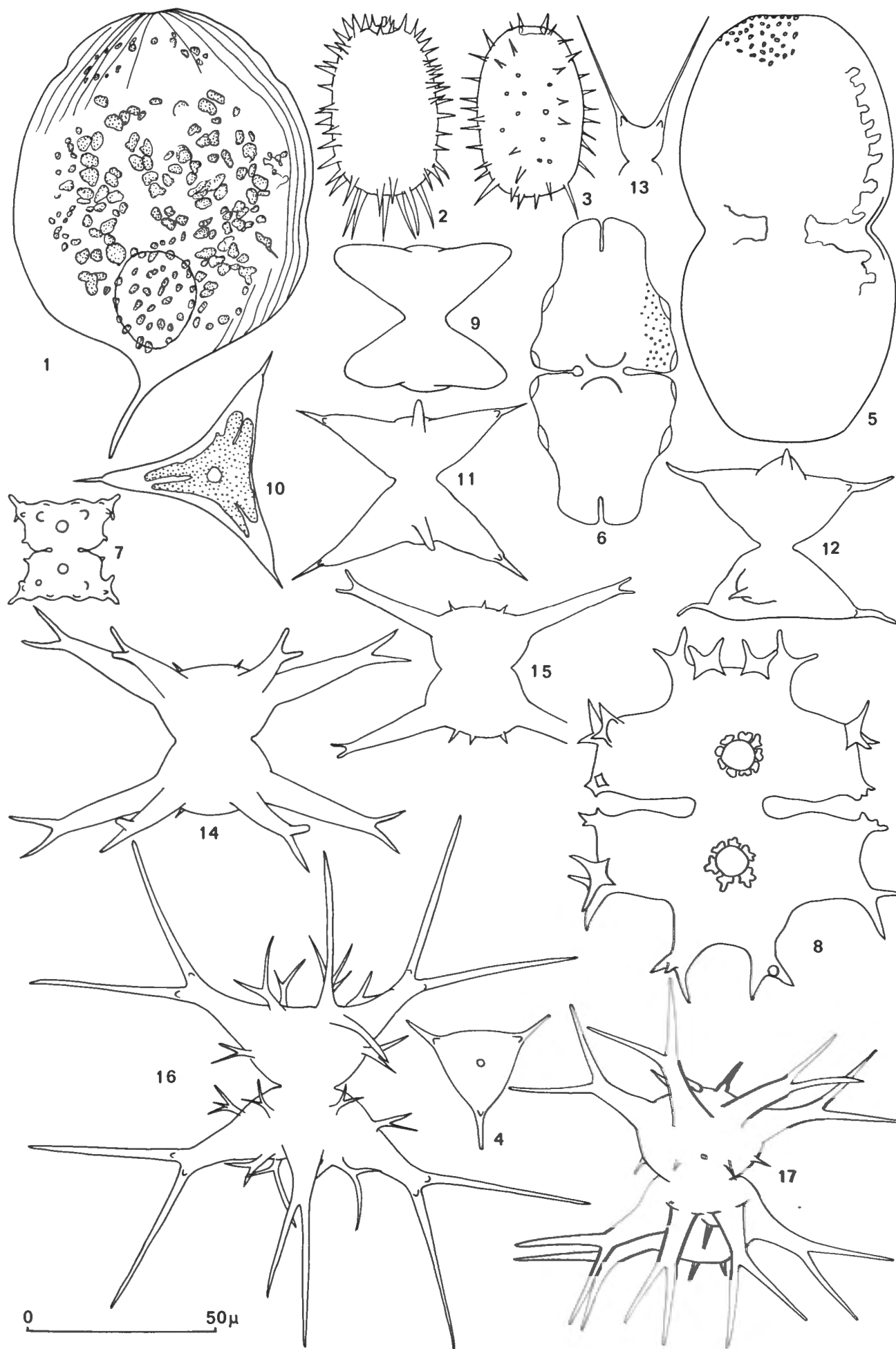


PLATE I

EXPLANATION OF PLATE I.

1. *Phacus platalea* v. *maior* DE POUQUES, Maica.
 2. *Trachelomonas armata* v. *longispina* PLAYF. em. DEFL., Maica.
 3. *T. zingeri* ROLL forma, Maica.
 4. *Tetraëdriella regularis* (KÜTZ.) FOTT, Maica.
 5. *Actinotaenium turgidum* v. *ligatum* (W. and W.) TEILING, Maica.
 6. *Euastrum brasiliense* v. *convergens* KRIEGER, Eva.
 7. *E. ornans* FÖRSTER, Eva.
 8. *Xanthidium trilobum* NORDST., Maica.
 9. *Staurodesmus clepsydra* f. *obtusa* (NORDST.) TEILING, Maica.
 - 10-11. *S. spencerianus* (MASK.) TEILING, Maica.
 12. *S. megacanthus* v. *triangularis* (GRÖNBL.) TEILING forma, Maica.
 13. *S. pseudoarthrodesmus* (GRÖNBL.) TEILING, Maica.
 - 14-15. *Staurastrum boergesenii* v. *depauperatum* GRÖNBL., Maica.
 16. *S. penicilliferum* GRÖNBL., Maica.
 17. *S. boergesenii* v. *simplicior* RACIB., Maica.
-



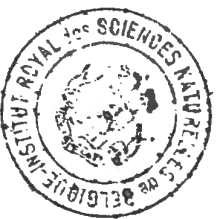




PLATE II

EXPLANATION OF PLATE II.

- 1-3. *Xanthidium mamillosum* (GRÖNBL.) FÖRSTER, Eva.
 - 4. *X. pseudoregulare* v. *hexagonum* THOM., Jurucui.
 - 5. *X. fragile* BERGE, Jurucui.
 - 6-7. *Arthrodesmus longispinus* BERGE, Maica.
-

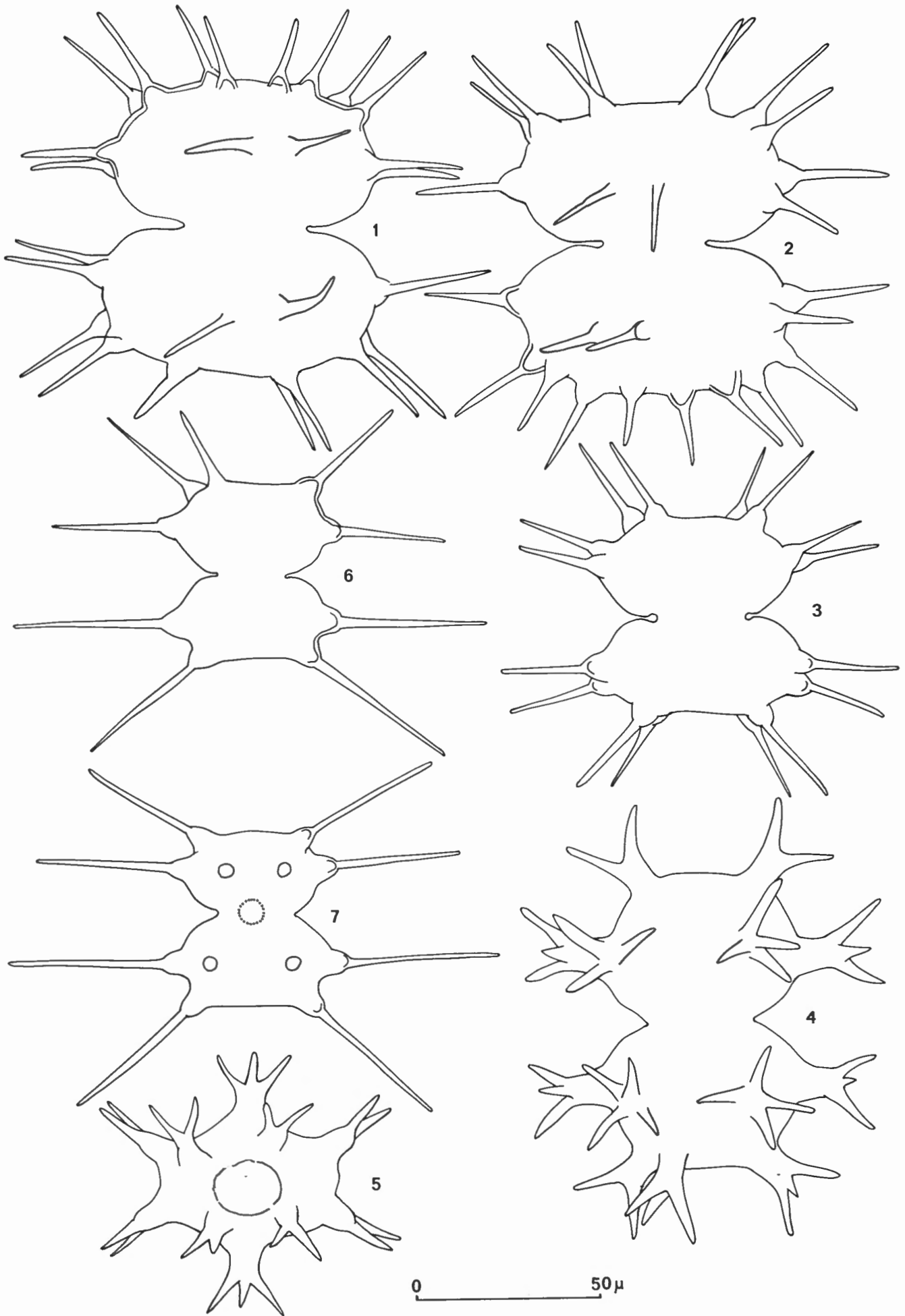






PLATE III

EXPLANATION OF PLATE III.

- 1-3. *Staurostrum vestitum* v. *subanatinum* W. and W., Maica.
 4. *S. leptocladum* v. *africanum* G. S. WEST forma, Maica.
 5. *S. glabribrachiatum* FÖRSTER, Maica.
 6. *S. subanchora* GRÖNBL. forma, Maica.
 7. *S. sebaldi* v. *ornatum* NORDST., Maica.
 - 8-10. *S. pseudoquadrangulare* THOM., Eva.
 11. *S. quadrinotatum* GRÖNBL. forma, Eva.
 12. *S. tectum* v. *ayayense* GRÖNBL, Maica.
 13. *S. octodontum* v. *longibrachiatum* THOM., Eva.
 14. *S. columbetoïdes* v. *ginzbergeri* (GRÖNBL.) SCOTT, Maica.
 15. *S. siolii* f. *divergens* THOM., Maica.
-

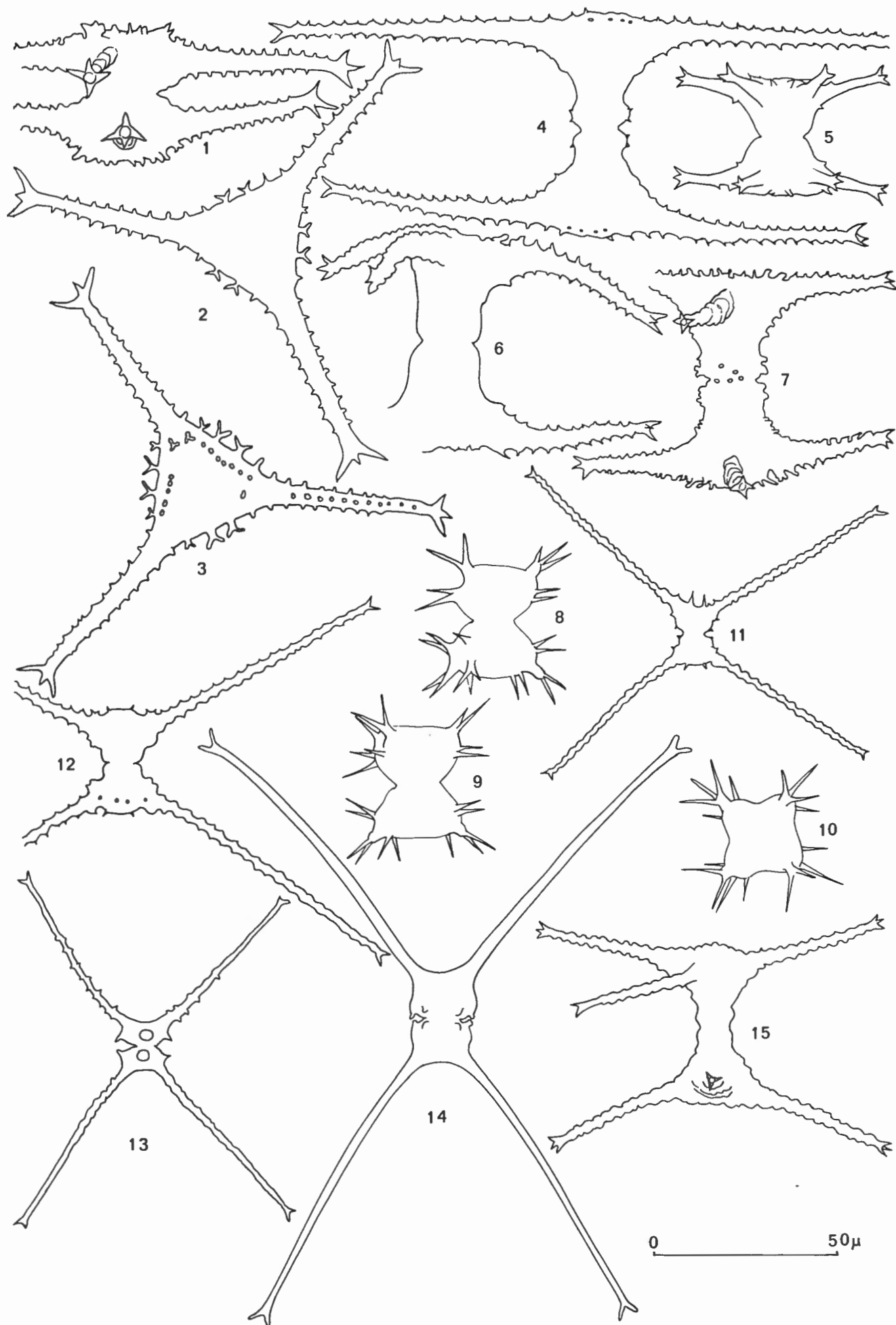






PLATE IV

EXPLANATION OF PLATE IV.

1. *Staurostrum brasiliense* v. *porrectum* BERGE, Maica.
 - 2-3. *S. brasiliense* NORDST., Maica.
 4. *Xanthidium mamillosum* (GRÖNBL.) FÖRSTER, Eva.
 - 5-6. *Pleurotaenium coronatum* v. *fluctuatum* W. WEST, Eva.
 7. *Dissotrocha aculeata medioaculeata* (JANSON), Maica.
 8. *Lecane leontina* (TURNER), Maica.
 9. *L. curvicornis* (MURRAY) ?, Maica.
 10. *Testudinella ahlstromi* HAUER, Maica.
 11. *T. haueriensis* GILLARD, Maica.
-

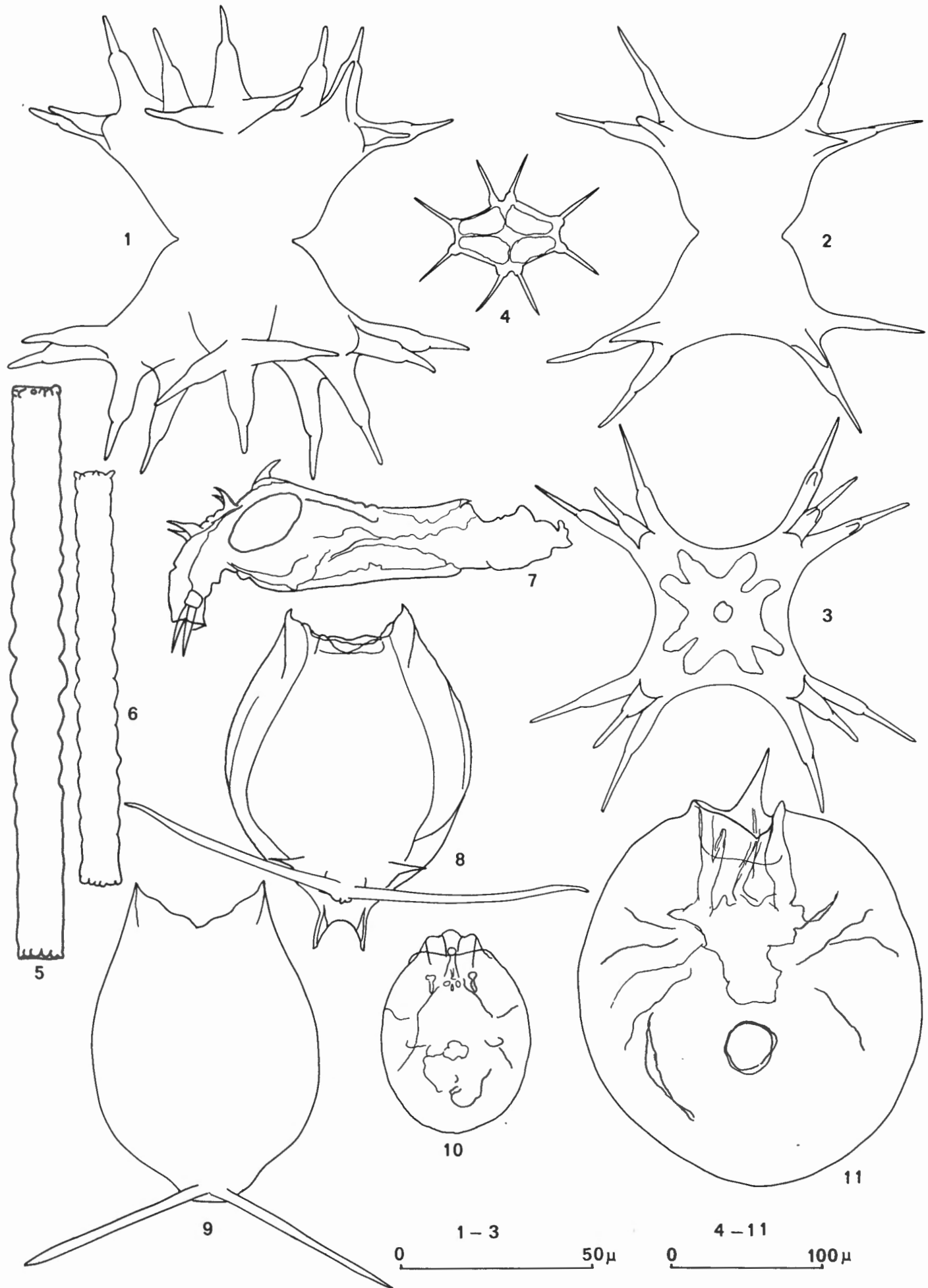






PLATE V

EXPLANATION OF PLATE V.

1. *Micrasterias radiata* v. *gracillima* G. M. SMITH, Maica.
 2. *Lecane proiecta* HAUER, Maica.
 3. *Pleurotaenium coronatum* v. *fluctuatum* W. WEST, Eva.
 4. *Chrysopyxis iwanoffii* LAUTERB., Jurucui.
 5. *Gonyaulax digitale* (POUCHET) KOFOID, Eva.
 6. *Glenodinium pernardiforme* (LINDEM.) SCHILLER ?, Eva.
 - 7-8. *Staurastrum jurucuiense* THOM., Maica.
-

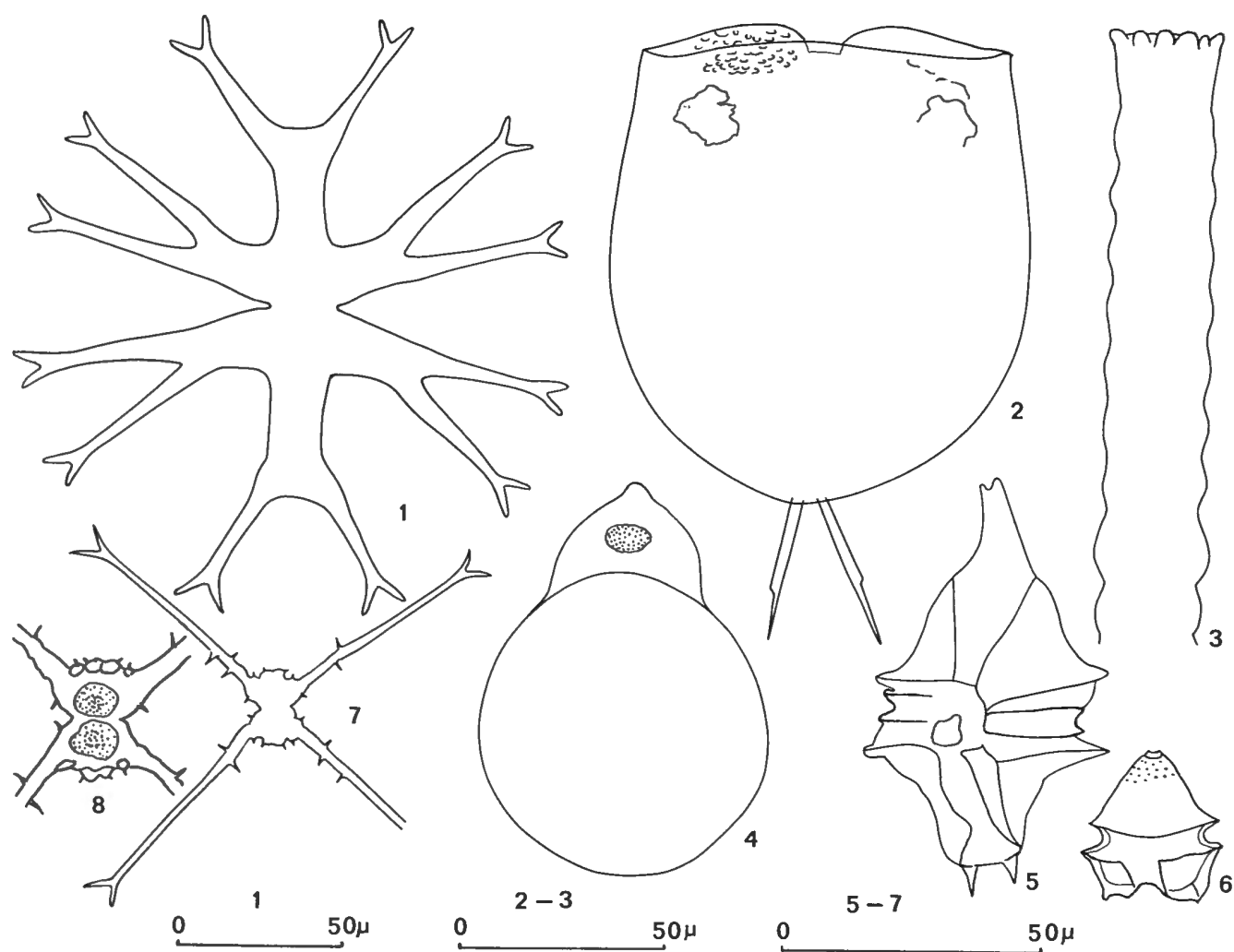






PLATE VI

EXPLANATION OF PLATE VI.

1. *Penium spirostriolatum* f. *elongatum* THOM., Jurucui.
 2. *Surirella arcta* A. SMITH, Jurucui.
 3. *Closterium baillyanum* f. *curvatum* THOM., Jurucui.
 - 4-5. *C. turgidum* v. *borgei* DEFL., Jurucui.
 6. *C. lunula* (MÜLL.) NITZSCH., Jurucui.
 7. *C. lunula* (MÜLL.) NITZSCH. forma, Jurucui.
 8. *C. lunula* (MÜLL.) NITZSCH., Jurucui.
 9. *C. costatum* CORDA, Jurucui.
 10. *Xanthidium fragile* BERGE, Jurucui.
 11. *Staurostrum octodontum* v. *longibrachiatum* THOM., Jurucui
 12. *Micrasterias rotata* (GREV.) RALFS, Jurucui.
 - 13-15. *Phacus platala* v. *maior* DE POUCQUES, Maica.
 16. *Phacus longicauda* (EHRENB.) DUJ., Maica.
 17. *Euglena tripteris* (DUJ.) KLEBS, Maica.
-

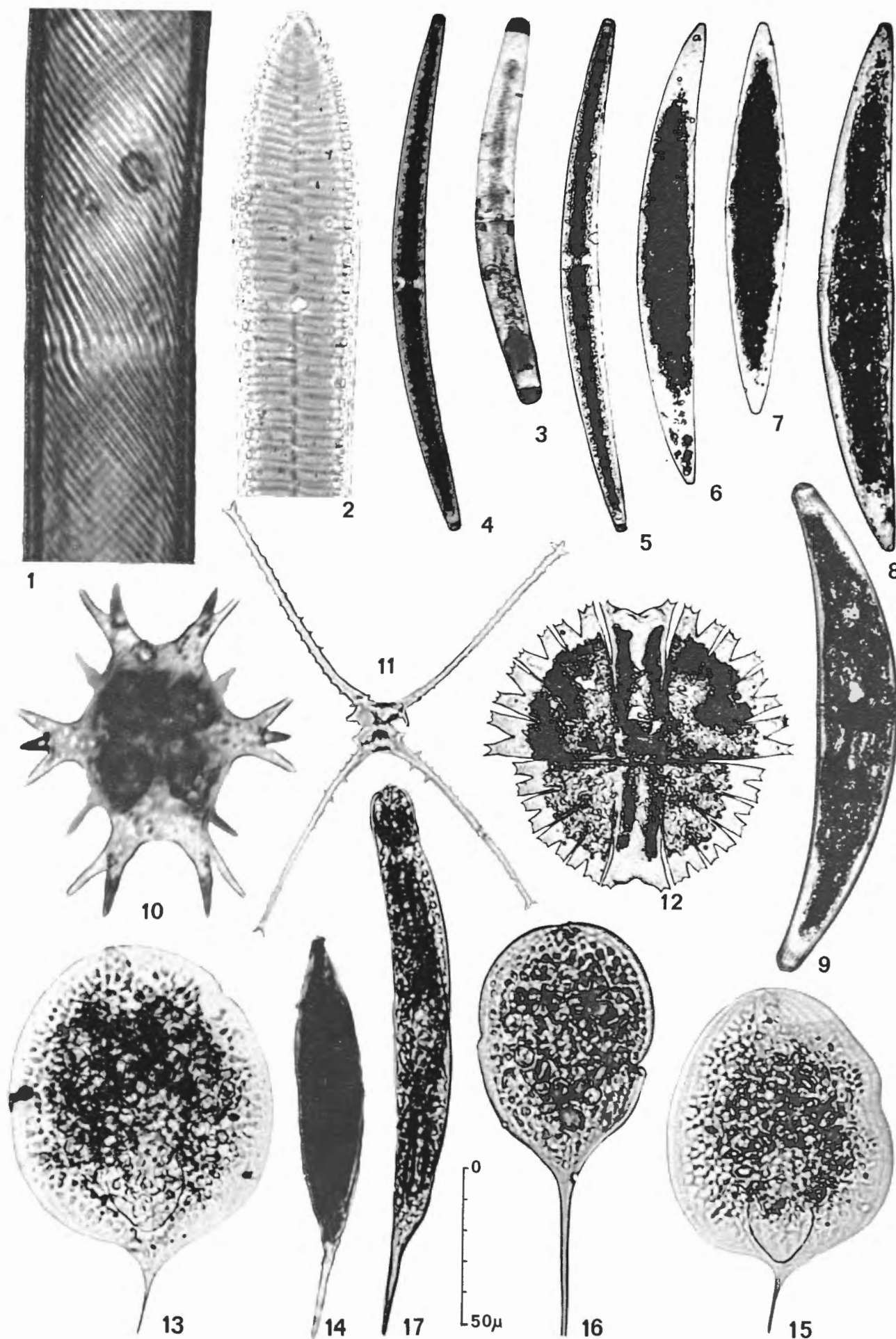






PLATE VII

EXPLANATION OF PLATE VII.

1. *Penium spirostriolatum* f. *elongatum* THOM., Jurucui.
 2. *Closterium macilentum* BRÉB. forma, Jurucui.
 3. *C. lunula* (MÜLL.) NITZSCH., Jurucui.
 4. *Pleurotaenium minutum* v. *latum* KAISER forma, Jurucui.
 5. *P. elatum* v. *alternans* (NORDST.) GRÖNBL., Maica.
 6. *Surirella arcta* A. SMITH, Jurucui.
 - 7-9. *Micrasterias rotata* (GREV.) RALFS, Jurucui.
 - 10-11. *M. borgei* v. *quadriverrucosa* THOM., Jurucui.
 12. *M. borgei* KRIEGER, Maica.
 - 13-15. *Pleurotaenium coronatum* v. *fluctuatum* W. WEST, Jurucui.
 - 16-17. *Gonyaulax digitale* (POUCHET) KOFOD, Eva.
-

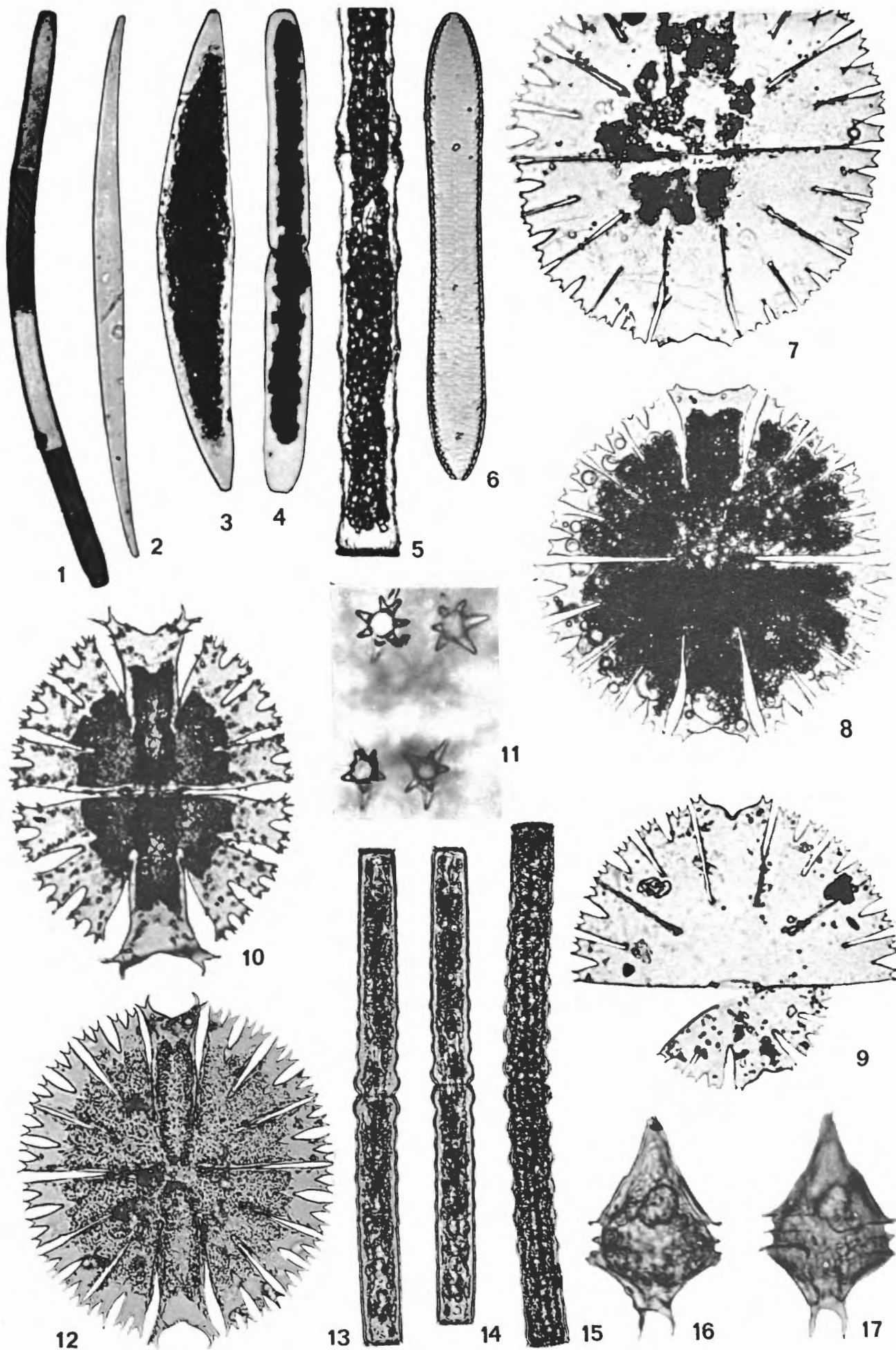






PLATE VIII

EXPLANATION OF PLATE VIII.

- 1-3. *Staurostrum subanchora* GRÖNBL., Maica.
 4. *S. brasiliense* v. *porrectum* BERGE.
 5. *Penium spirostriolatum* f. *elongatum* THOM., Jurucui.
 6. *Closterium turgidum* v. *borgei* DEFL., Jurucui.
 - 7-9. *C. costatum* CORDA, Jurucui.
 - 10-11. *C. porrectum* v. *borgei* (BERGE) FÖRSTER, Jurucui.
 12. *Oedogonium spirale* HIRN, Jurucui.
 13. *Oedogonium* sp., Jurucui.
 - 14-15. *Bulbochaete imperialis* WITTR., Jurucui.
 16. Zygosporangium of *Closterium navicula* (BRÉB.) LÜTKEM. or *Cylindrocystis*, Jurucui.
-

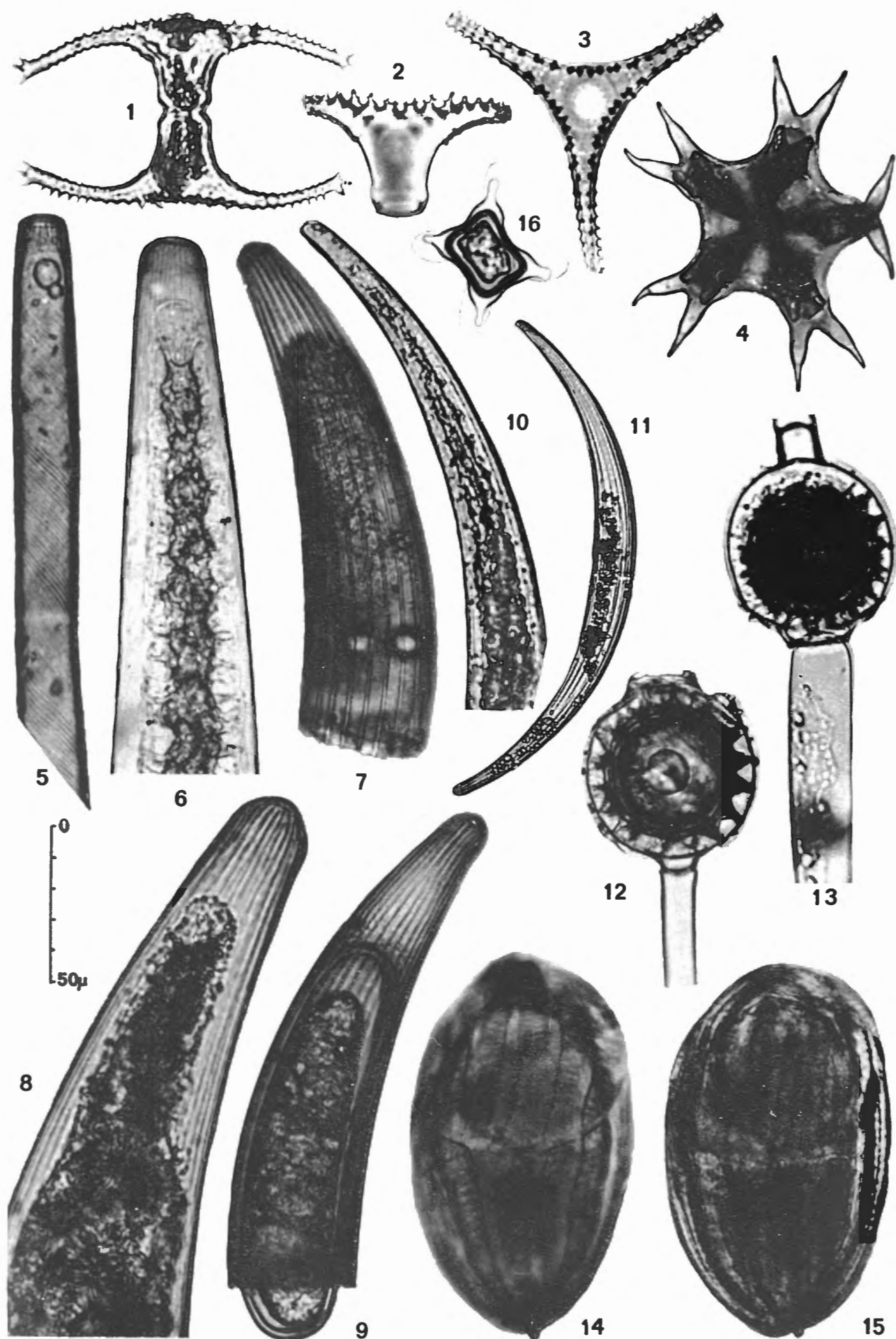


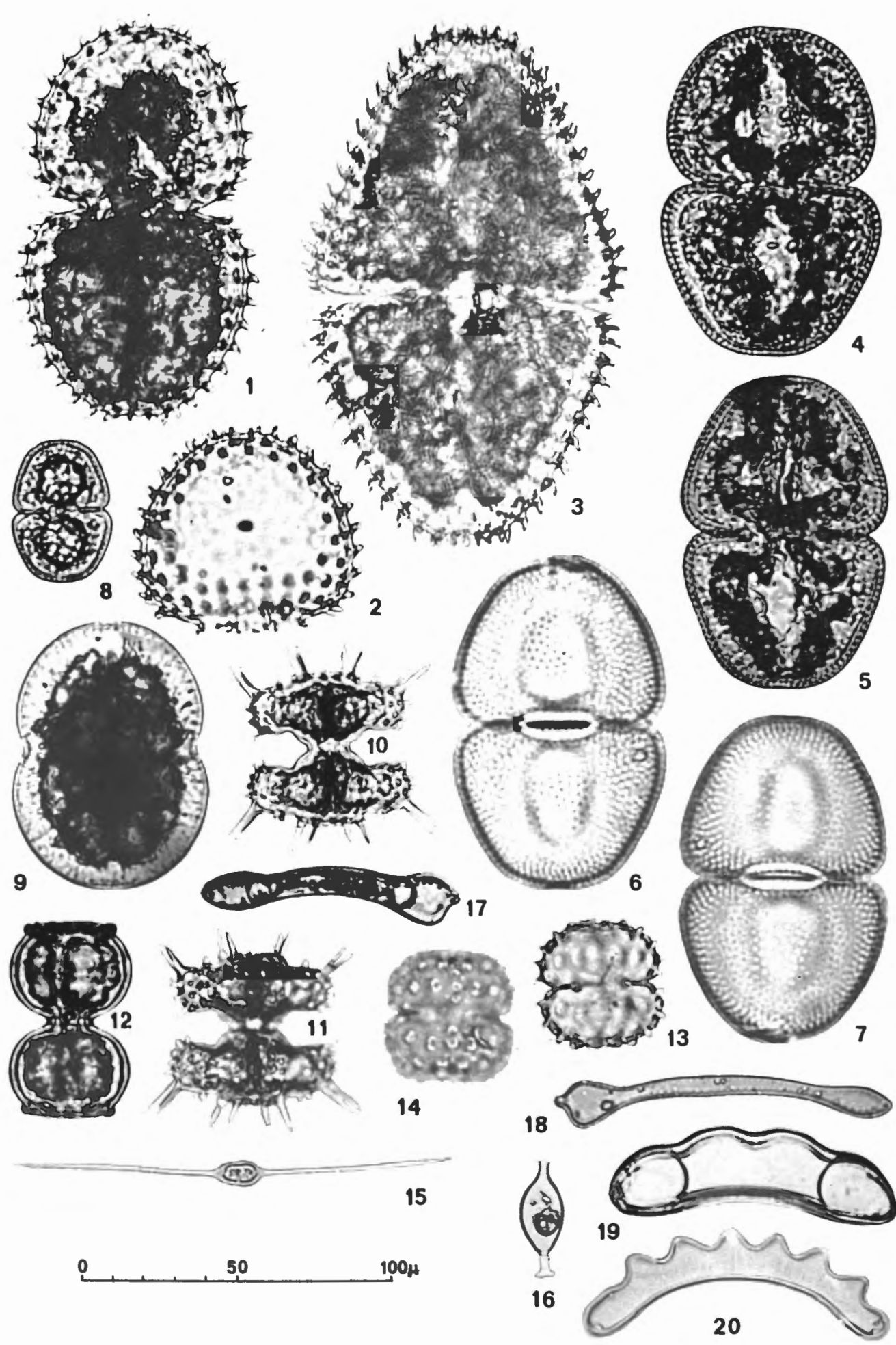




PLATE IX

EXPLANATION OF PLATE IX.

- 1-2. *Cosmarium denticulatum* v. *rotundatum* f. *mediolaeve* FÖRSTER, Jurucui.
 3. *C. denticulatum* v. *perspinosum* GRÖNBL., Jurucui.
 - 4-7. *C. pseudopachydermum* NORDST. forma, Jurucui.
 8. *C. nitidulum* DE NOT., Jurucui.
 9. *C. connatum* BRÉB., Jurucui.
 - 10-11. *C. lagoense* v. *cornigerum* NORDST., Maica.
 12. *C. radimitum* BERGE.
 - 13-14. *Cosmarium* sp., Eva.
 15. *Centrित्रactus belonophorus* LEMM., Maica.
 16. *Derepyxis ollula* v. *ovata* (WISL.) MATV., Jurucui.
 17. *Actinella brasiliense* GRUN., Jurucui.
 18. *A. guianensis* GRUN., Eva.
 19. *Eunotia zygodon* EHRENB., Maica.
 20. *E. subrobusta* HUST., Jurucui.
-



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PLATE X

EXPLANATION OF PLATE X.

- 1-3. *Cosmarium groenbladii* THOM., Jurucui.
 - 4-5. *Staurastrum penicilliferum* GRÖNBL., Jurucui.
 - 6. *Actinella mirabilis* GRUN., Jurucui.
 - 7. *Pleurotaenium verrucosum* (BAIL.) LUND., Jurucui.
 - 8. *P. coronatum* v. *fluctuatum* W. WEST, Jurucui.
 - 9. *Treubaria varia* TIFFANY and AHLSTROM, Maica.
 - 10. *Cosmarium groenbladii* f. *rotundata* THOM., Jurucui.
 - 11. *Staurastrum jurucuiense* THOM., Jurucui.
 - 12-13. *Rhizosolenia braunii* HUST. forma, Jurucui.
 - 14. *Staurodesmus spencerianus* v. *cruciatus* (KRIEGER) TEILING forma, Jurucui.
-

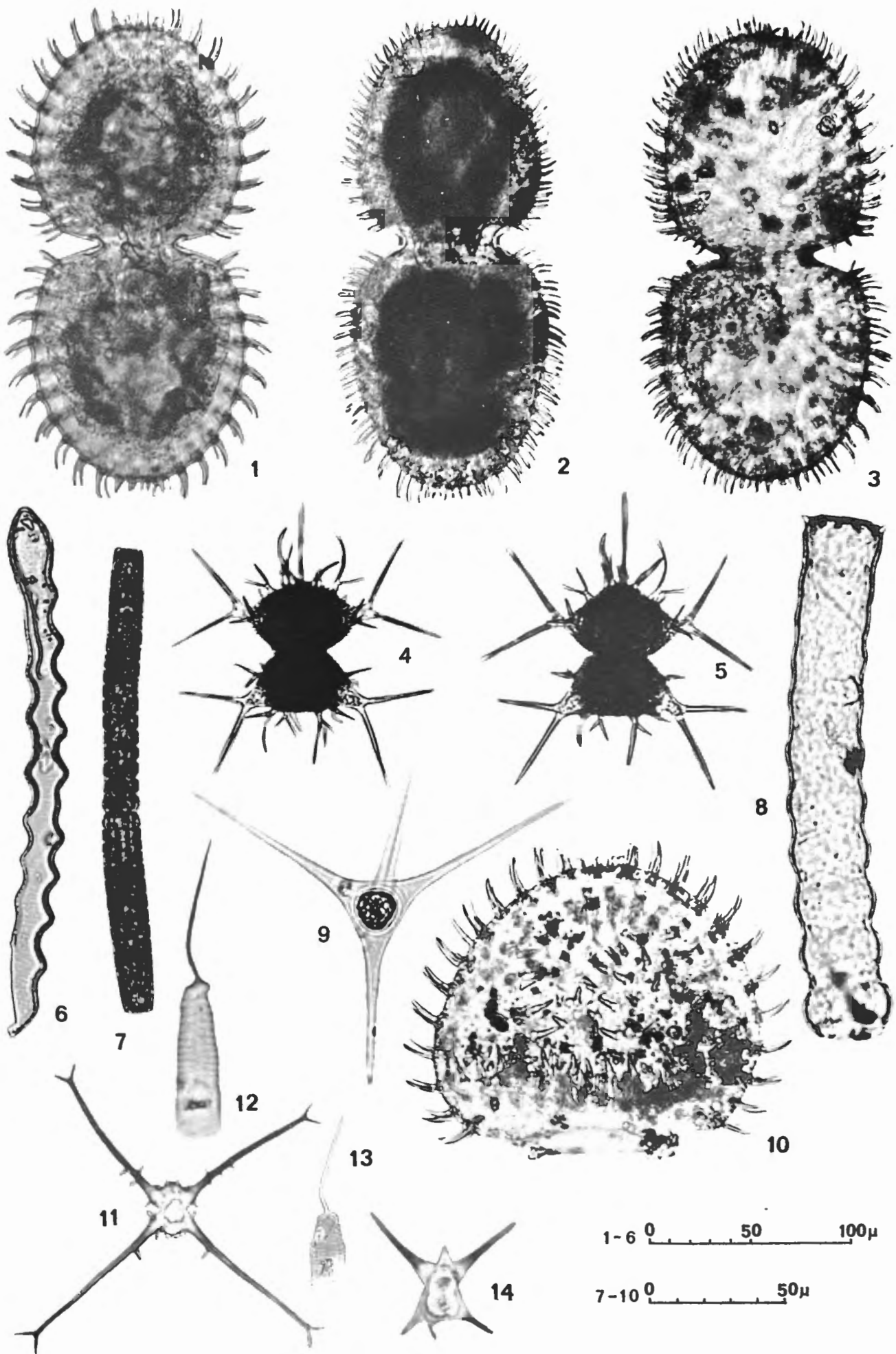






PLATE XI

EXPLANATION OF PLATE XI.

1. *Actinotaenium tumidum* v. *brasiliense* (GRÖNBL.) TEILING, Eva.
 2. *Euastrum obliqueporum* BRANDHAM, Jurucui.
 3. *E. evolutum* v. *perornatum* SCOTT and CROASDALE, Jurucui.
 4. *Micrasterias arcuata* BAIL., Jurucui.
 5. *Xanthidium paraguayense* BERGE, Maica.
 6. *Cosmarium contractum* KIRCHN., Jurucui.
 7. *Euastrum ornans* FÖRSTER, Eva.
 - 8-11. *Cosmarium ornatum* v. *pseudolagoense* FÖRSTER, Jurucui.
 12. *C. bitriangulum* GRÖNBL., Maica.
 13. *C. pseudotaxichondrum* v. *longii* (TAYLOR) SCOTT forma, Jurucui.
 14. *Teilingia wallichii* (JACOBS.) BOURRELLY, Jurucui.
 - 15-16. *Desmidium curvatum* NORDST., Jurucui.
 17. *Desmidium elegans* (RACIB.) GRÖNBL. forma, zygot, Jurucui.
 18. *Trachelomonas spinosa* STOCKES, Jurucui.
 19. *T. sydneyensis* v. *obesa* f. *longispina* THOM., Maica.
 20. *T. zingeri* ROLL forma, Maica.
 21. *T. sydneyensis* PLAYF., Maica.
 22. *Phacus swirenkoi* SKWORZ. ?, Maica.
 23. *Scenedesmus quadricauda* v. *quadripina* (CHOD.) G. M. SMITH, Jurucui.
 24. *Eunotia subrobusta* HUST., Jurucui.
-

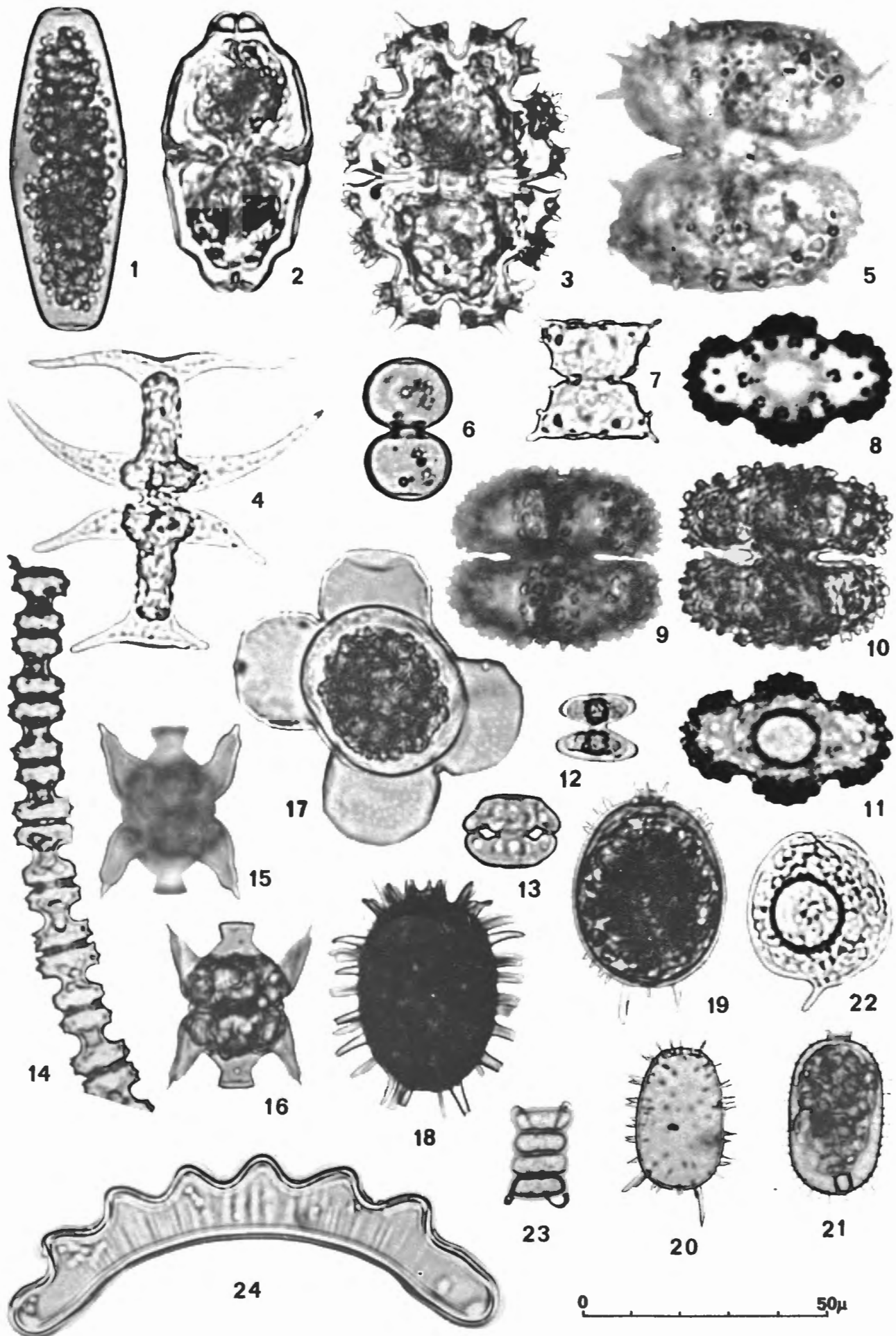






PLATE XII

EXPLANATION OF PLATE XII.

1. *Micrasterias truncata* f. *gibbosa* THOM., Jurucui.
 - 2-3. *M. arcuata* BAIL., Jurucui.
 4. *M. borgei* v. *quadriverrucosa* THOM., Jurucui.
 - 5-8. *Euastrum brasiliense* v. *convergens* KRIEGER, Maica, Jurucui.
 9. *E. evolutum* v. *monticulosum* (TAYLOR) KRIEGER forma, Eva.
 - 10-11. *E. evolutum* v. *perornatum* SCOTT and CROASD., Jurucui.
 - 12-13. *Xanthidium paraguayense* BERGE, Maica.
 14. *Phymatodocis nordstedtiana* f. *minor* BØRGES., Jurucui.
 15. *Desmidium pseudostreptonema* W. and W., Jurucui.
 16. *D. cylindricum* v. *obliquum* W. and W., Jurucui.
 17. *D. elegans* (RACIB.) GRÖNBL. forma, Jurucui.
 - 18-19. *Sphaerosozoma laeve* (NORDST.) THOM. forma, Maica.
 20. *Micrasterias rotata* (GREV.) RALFS, Jurucui.
-

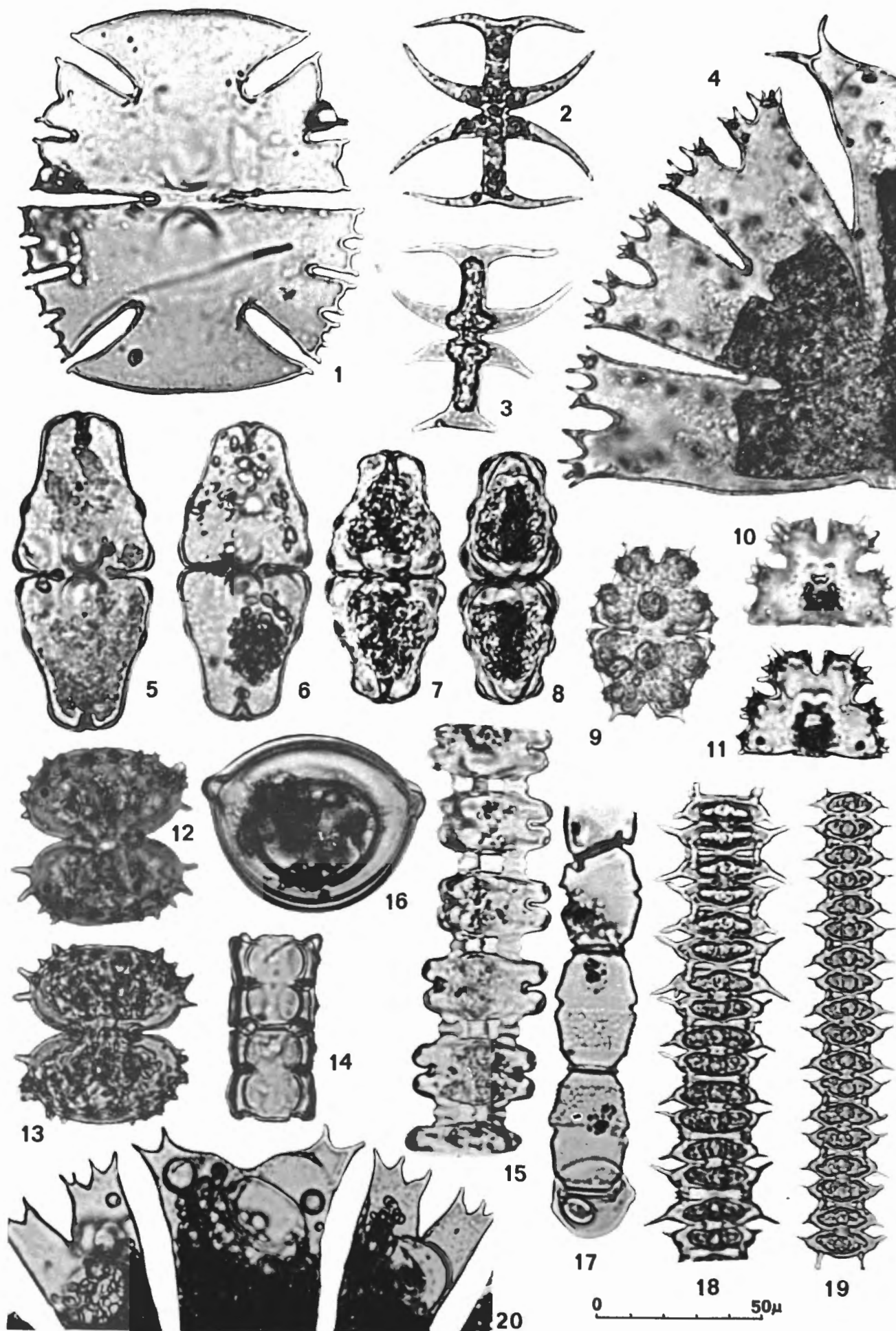






PLATE XIII

EXPLANATION OF PLATE XIII.

- 1-3. *Micrasterias truncata* f. *gibbosa* THOM., Jurucui.
 4. *M. radiata* v. *groenbladii* CROASD., Jurucui.
 5. *M. mahabuleshwariensis* v. *ampullacea* (MASK.) NORDST., Jurucui.
 6. *Pleodorina illinoisensis* KOFOID, Maica.
 - 7-8. *Xanthidium canadense* v. *amazonense* FÖRSTER, Jurucui.
 9. *Staurostrum brasiliense* NORDST., Jurucui.
 10. *S. boergesenii* RACIB., Jurucui.
-

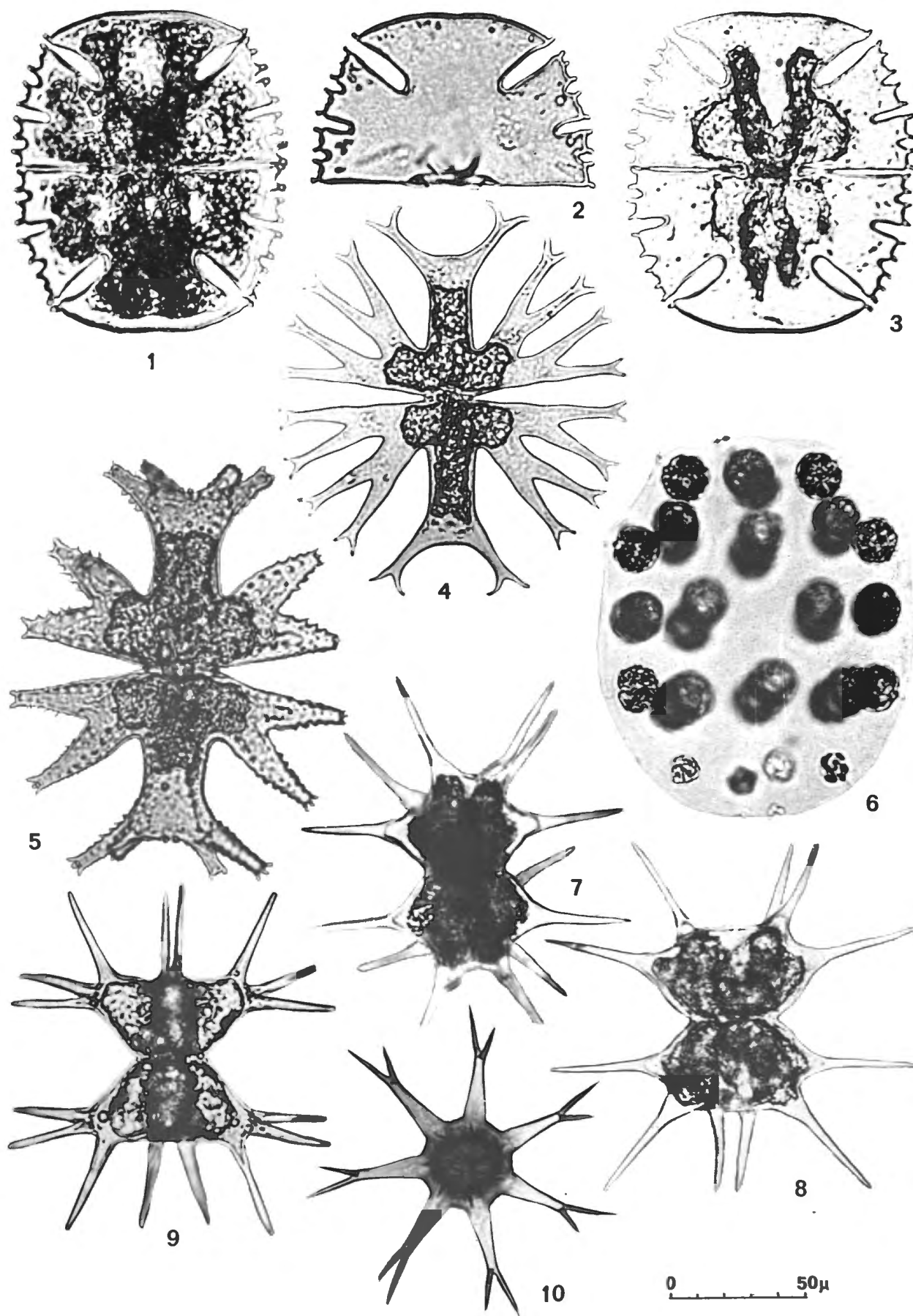






PLATE XIV

EXPLANATION OF PLATE XIV.

1. *Triploceras gracile* v. *bidentatum* NORDST., Jurucui.
 - 2-3. *Micrasterias radiata* f. *gracillima* G. M. SMITH, Maica, Jurucui.
 4. *M. radiata* v. *groenbladii* CROASD., Maica.
 5. *M. borgei* f. *minor* THOM., Maica.
 - 6-8. *M. alata* f. *gracilior* GRÖNBL., Jurucui.
 9. *Staurastrum brasiliense* NORDST., Jurucui.
 10. *Xanthidium canadense* v. *amazonense* FÖRSTER, Jurucui.
 11. *Closterium costatum* CORDA, Jurucui.
 12. *C. macilentum* BRÉB., Jurucui.
 13. *Actinella* growing on branched hyaline mucilage-stalk, Jurucui.
-

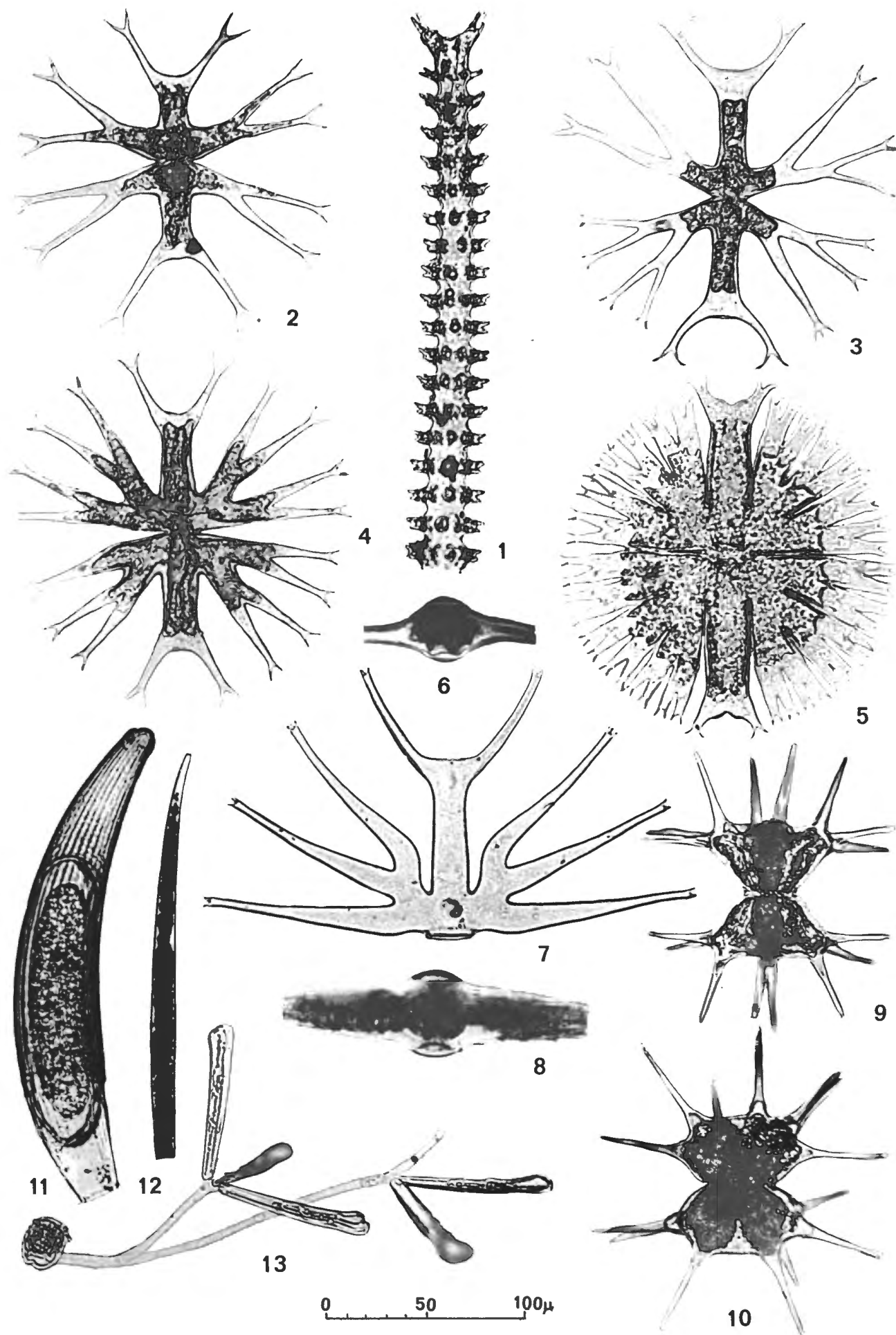




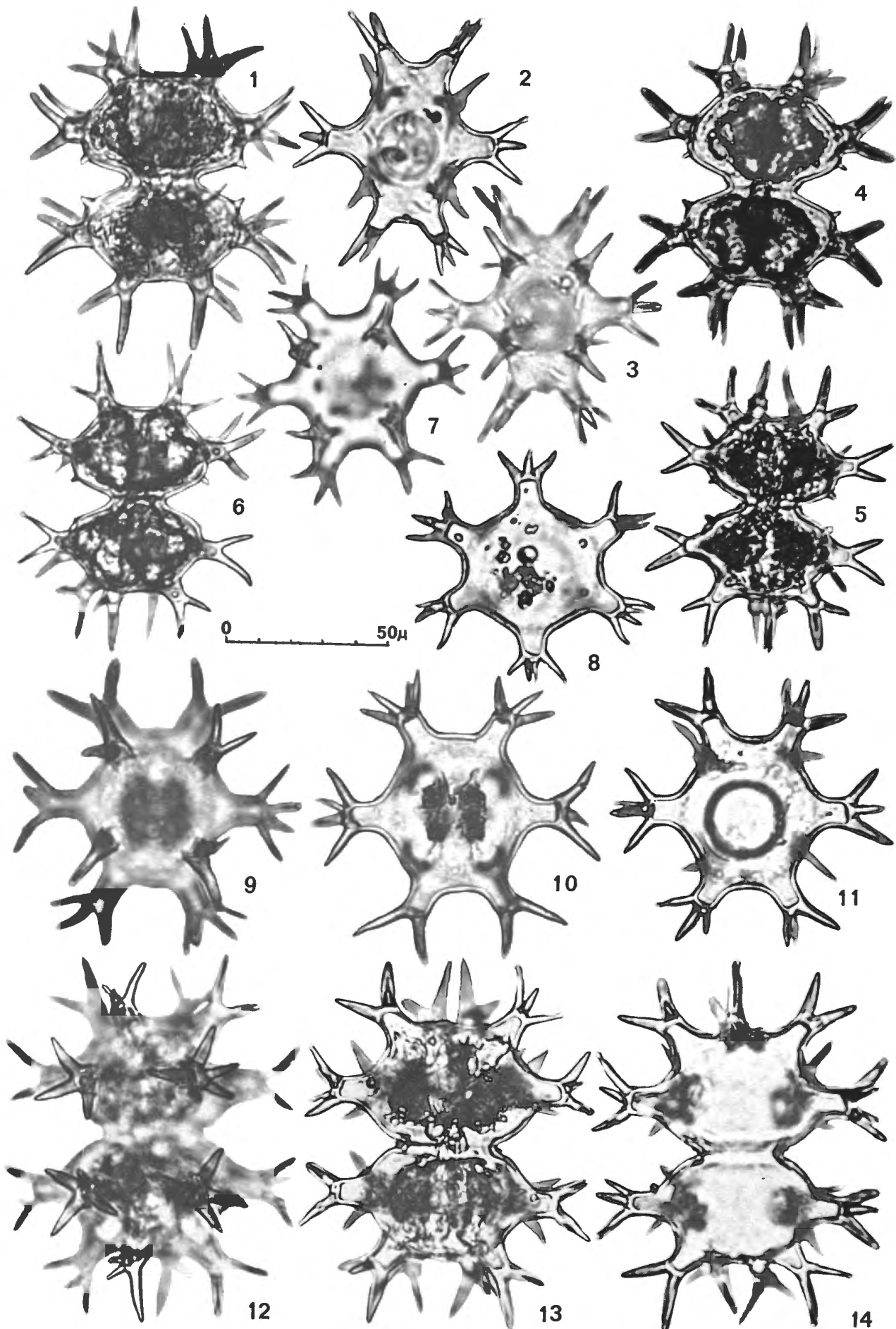


PLATE XV

EXPLANATION OF PLATE XV.

1-6. *Xanthidium fragile* BERGE, Jurucui.

7-14. *X. pseudoregulare* v. *hexagonum* THOM., Jurucui.



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PLATE XVI

EXPLANATION OF PLATE XVI.

- 1-4. *Staurodesmus validus* (W. and W.) THOM., Jurucui.
 5. *S. subulatus* f. *nordstedtii* (G. M. SMITH) THOM., Jurucui.
 - 6-7. *S. triangularis* v. *limneticus* TEILING, Jurucui.
 8. *S. quiriferus* v. *evolutus* (FRITSCH and RICH) TEILING, Eva.
 9. *S. spencerianus* (MASK.) TEILING, Maica.
 10. *S. megacanthus* v. *triangularis* (GRÖNBL.) TEILING forma, Maica.
 - 11-12. *Xanthidium nordstedtii* (GRÖNBL.) THOM., Jurucui.
 13. *X. mamillosum* (GRÖNBL.) FÖRSTER, Maica.
 - 14-15. *X. trilobum* NORDST., Jurucui, Maica.
 16. *Scenedesmus ecornis* f. *granulatus* THOM., Jurucui.
 17. *Sorastrum americanum* (BOHLIN) SCHMIDLE, Jurucui.
 18. *Coelastrum cambricum* ARCHER, Jurucui.
 19. Spore of *Tetraploa aristata* BARK. and BR., an imperfect fungus.
-

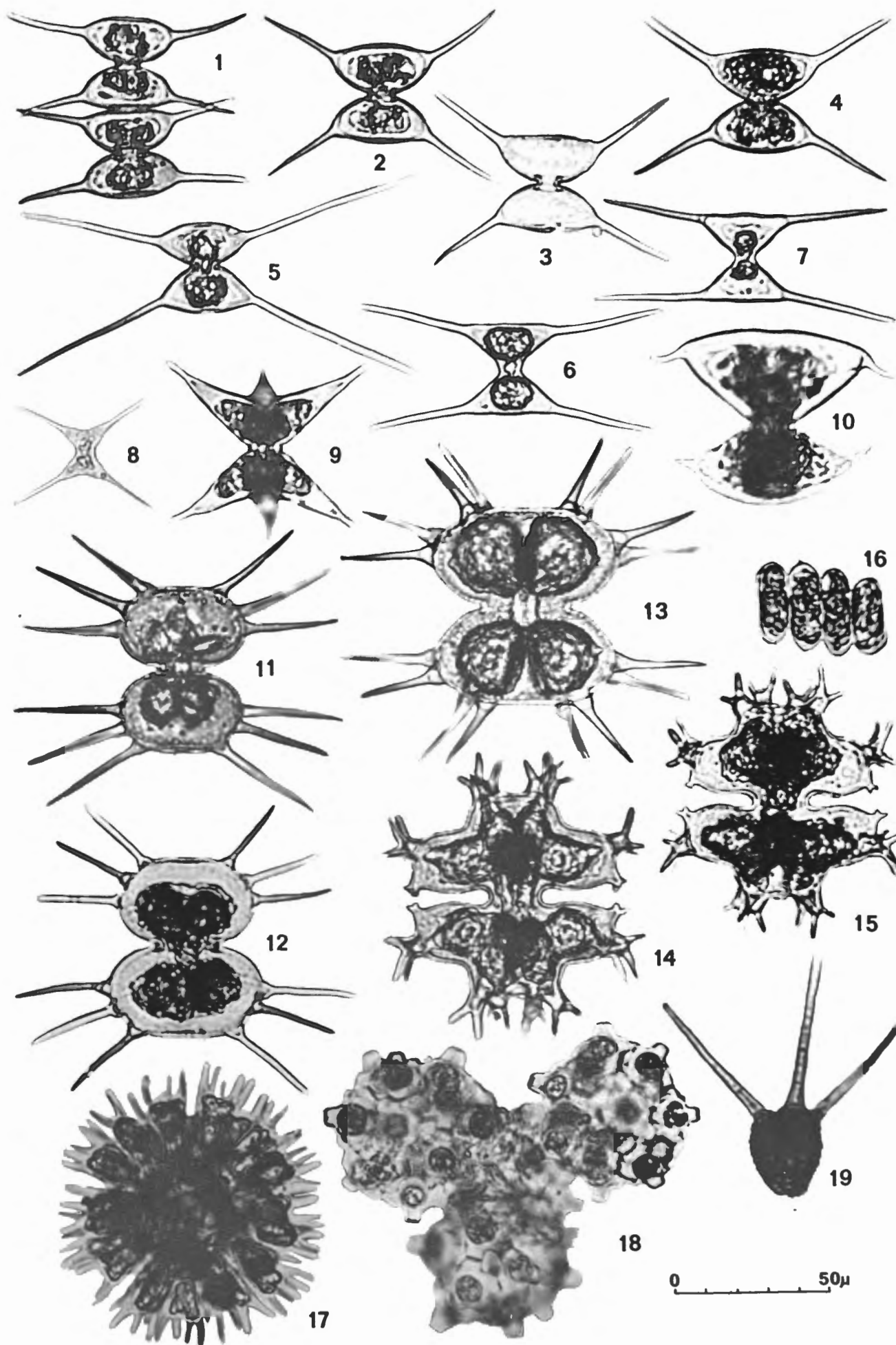


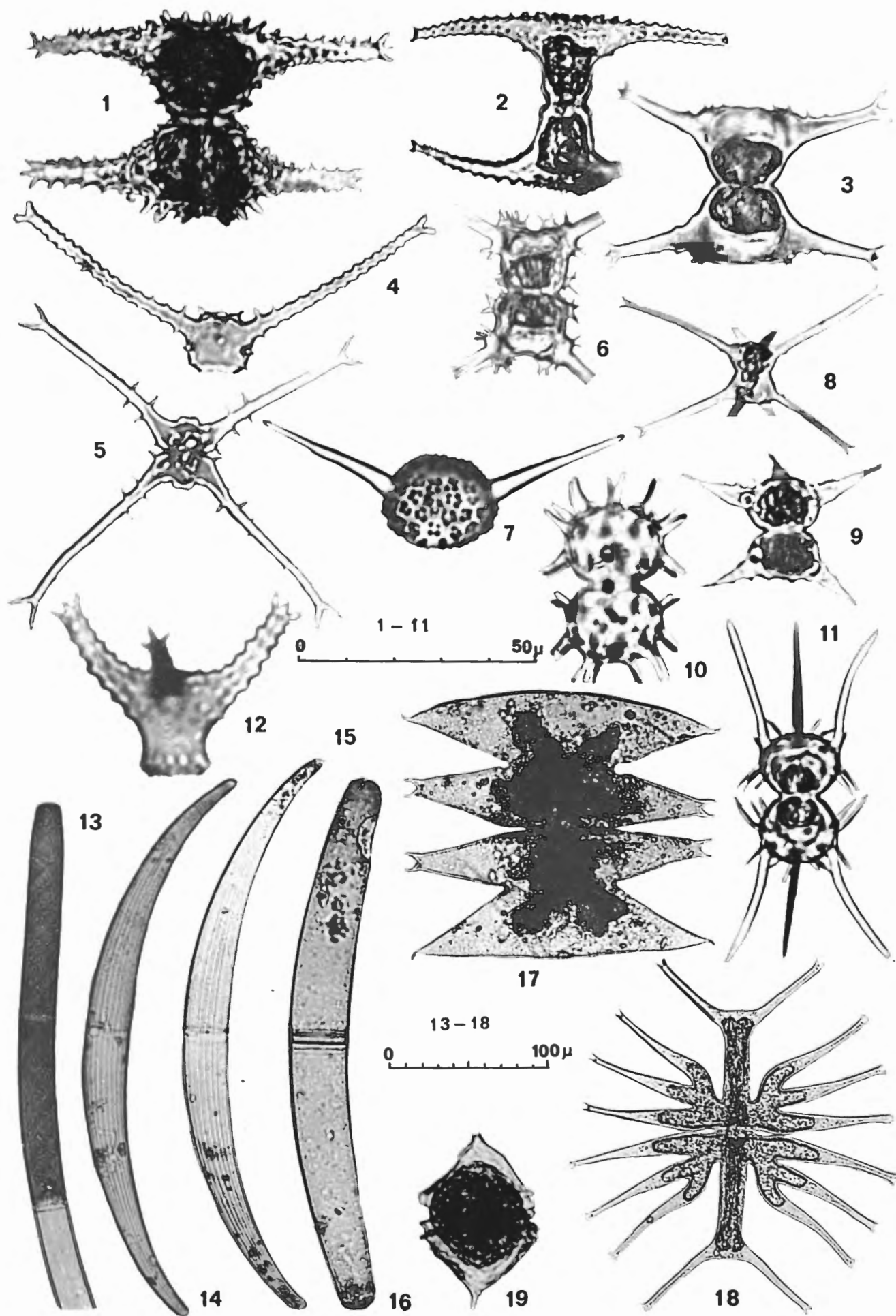




PLATE XVII

EXPLANATION OF PLATE XVII.

1. *Staurostrum oxyacantha* v. *maius* SCOTT and GRÖNBL. forma, Jurucui.
 2. *S. subanchora* GRÖNBL., Jurucui.
 3. *S. glabribrachiatum* FÖRSTER, Maica.
 4. *S. subindentatum* v. *lepidiforme* CROASD., Jurucui.
 5. *S. jurucuiense* THOM., Jurucui.
 6. *S. stelliferum* v. *evolutum* THOM., Jurucui.
 7. *S. circulus* GRÖNBL. forma, Jurucui.
 8. *S. thienemannii* KRIEGER forma, Eva.
 9. *S. spiculiferum* f. *minor* THOM., Maica.
 10. *S. teliferum* v. *groenbladii* THOM., Jurucui.
 11. *S. tentaculiferum* BERGE, Jurucui.
 12. *S. rectangulare* BERGE forma, Jurucui.
 13. *Penium spirostriolatum* f. *elongatum* THOM., Jurucui.
 - 14-15. *Closterium porrectum* v. *borgei* (BERGE) FÖRSTER, Jurucui.
 16. *C. baillyanum* f. *curvatum* THOM., Jurucui.
 17. *Micrasterias laticeps* v. *ampliata* KRIEGER, Maica.
 18. *M. alata* f. *gracilior* GRÖNBL., Jurucui.
 19. *Goniaulax polygramma* STEIN ?, Maica.
-



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PLATE XVIII

EXPLANATION OF PLATE XVIII.

1. *Staurostrum leptocladum* v. *africanum* G. S. WEST forma, Maica.
 2. *S. leptocladum* v. *denticulatum* G. M. SMITH, Jurucui.
 3. *S. leptocladum* v. *insigne* W. and W. em. GRÖNBL., Maica.
 4. *S. brachioprominens* f. *minor* THOM., Maica.
 5. *S. elongatum* v. *amazonense* SCOTT and GRÖNBL., Jurucui.
 6. *S. tectum* BERGE, Jurucui.
 7. *S. tectum* v. *ayayense* GRÖNBL., Maica.
 8. *S. triundulatum* v. *brasiliense* GRÖNBL., Jurucui.
 - 9-10. *S. submanfeldtii* v. *convergens* GRÖNBL. forma, Maica.
 - 11-12. *S. subindentatum* v. *brasiliense* f. *sexspinulosum* FÖRSTER, Jurucui, Maica.
 - 13-15. *S. stelliferum* v. *evolutum* THOM., Jurucui.
 16. *S. stelliferum* BERGE, Jurucui.
 17. *S. nodulosum* PRESCOTT forma, Maica.
 - 18-19. *S. brebissonii* v. *brasiliense* GRÖNBL., Jurucui.
 20. *S. wolleanum* v. *brasiliense* SCOTT and CROASD., Maica.
 21. *S. cingulum* (W. and W.) G. M. SMITH, Maica.
-

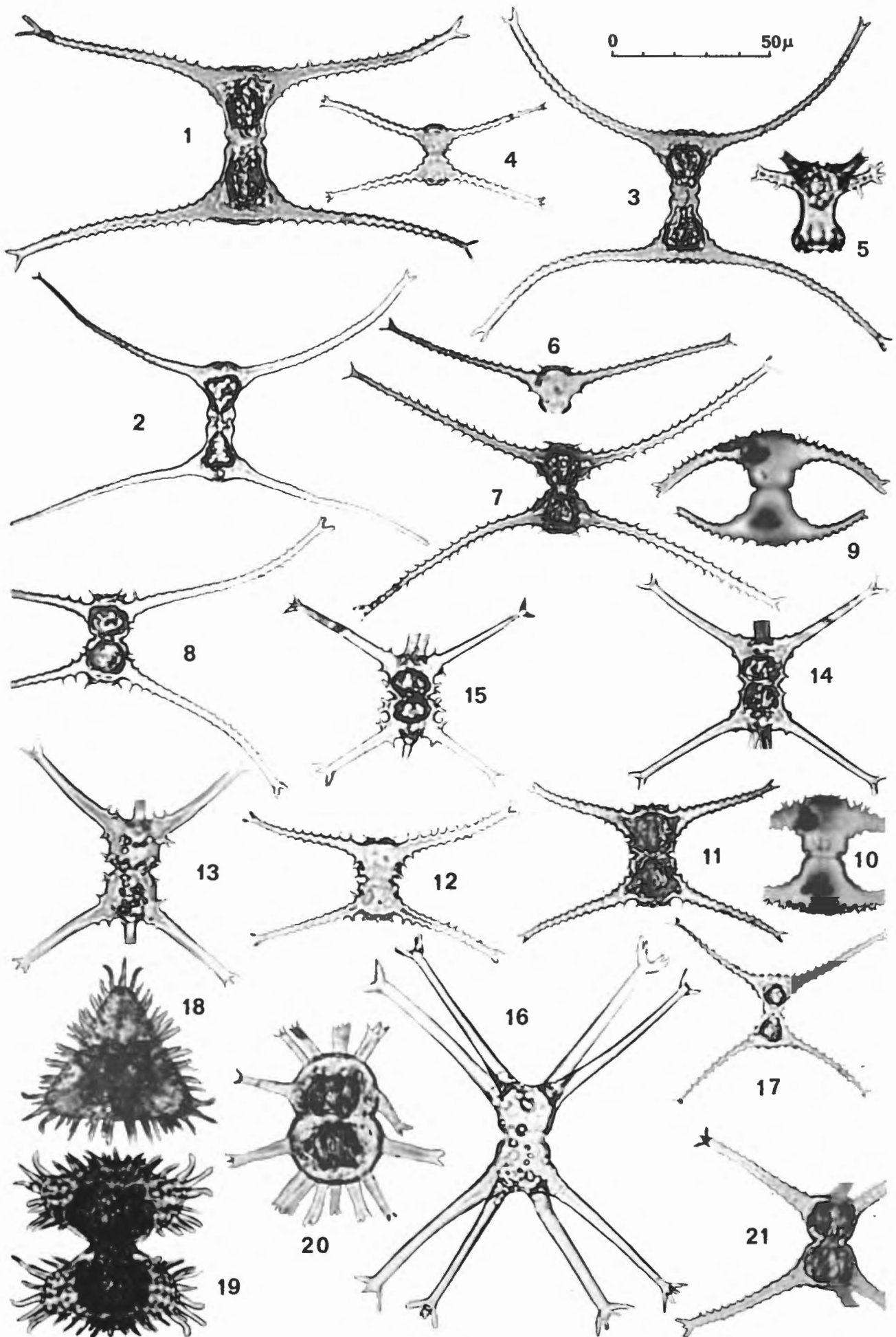






PLATE XIX

EXPLANATION OF PLATE XIX.

- 1-2. *Staurostrum saltans* v. *brasiliense* GRÖNBL., Jurucui.
3-5. *S. circulus* GRÖNBL. forma, Jurucui.
6. *S. pseudosebaldi* v. *elongatum* MESSIK., Maica.
7-11. *S. nova-caesareae* v. *brasiliense* (GRÖNBL.) FÖRSTER, Jurucui.
12-14. *S. boergesenii* RACIB., Jurucui, Maica.
15. *S. boergesenii* v. *trifidum* GRÖNBL., Maica.
16. *S. leptacanthum* NORDST., Jurucui.
17-19. *S. vestitum* v. *subanatinum* W. and W., Maica.
20. *S. siolii* f. *divergens* THOM., Maica.
-

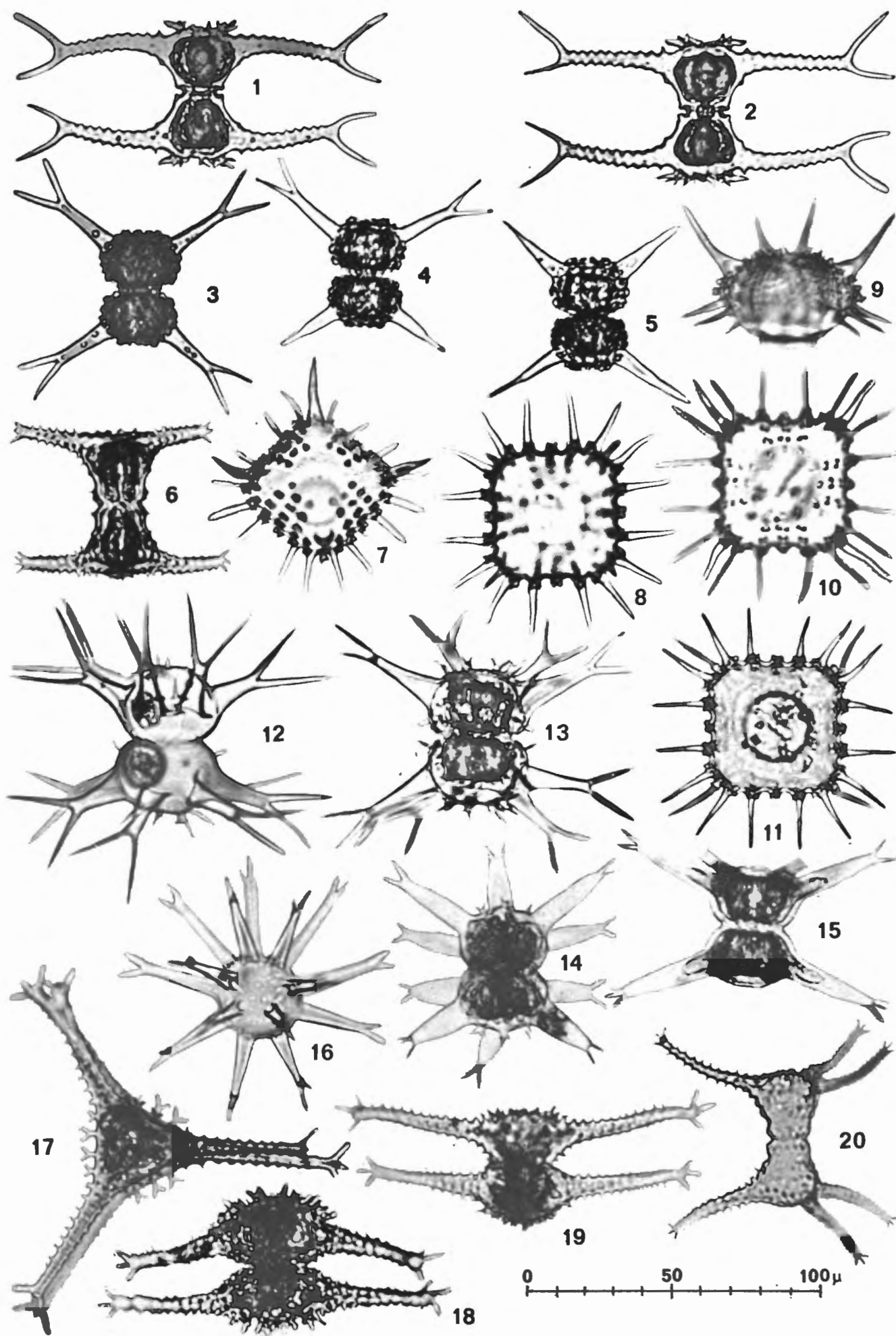






PLATE XX

EXPLANATION OF PLATE XX.

- 1-3. *Brachionus mirabilis* DADAY, Jurucui.
 - 4-5. *B. zahniseri* v. *reductus* HAUER, Jurucui, Maica.
 - 6. *Keratella americana* CARLIN, Jurucui.
 - 7. *Cephalodella mucronata* MYERS, Jurucui.
 - 8. *Dipeuchlanis propatula* BEAUCHAMP, Jurucui.
 - 9-10. *Lecane melini* THOM., Jurucui.
 - 11. *L. curvicornis* (MURRAY), Maica.
 - 12. *Trichotria tetractis* (EHRENB.), Maica.
-

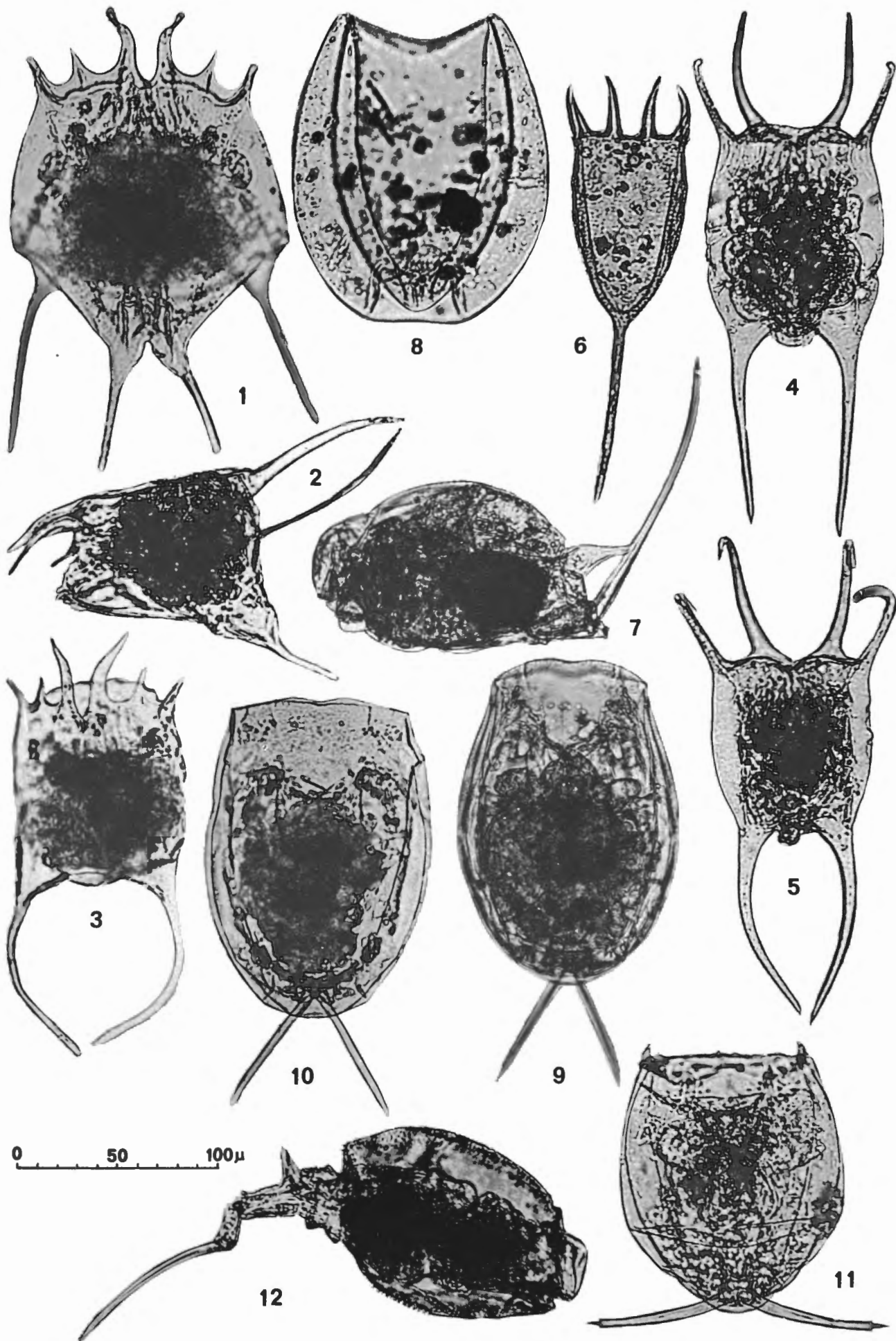


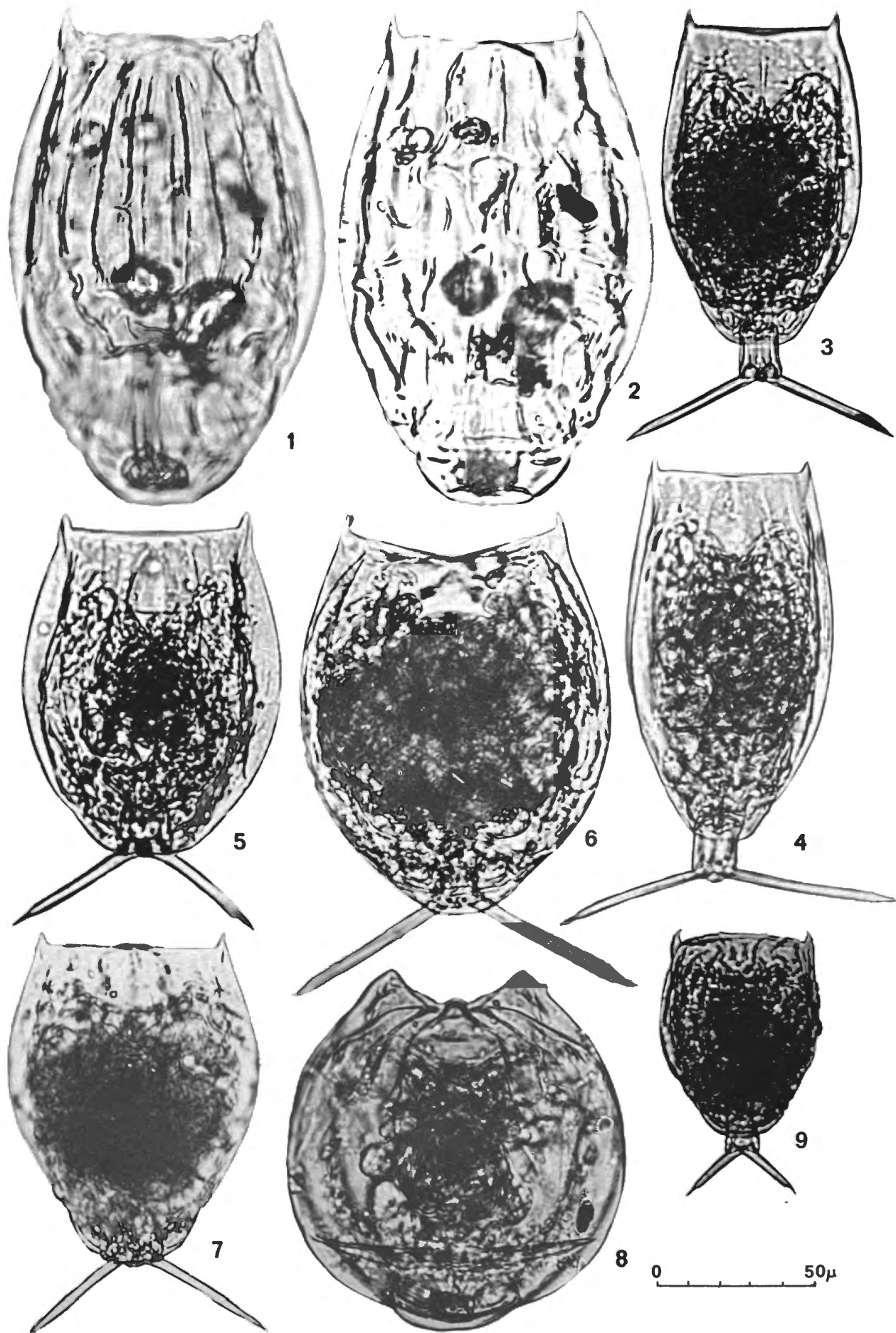




PLATE XXI

EXPLANATION OF PLATE XXI.

- 1-2. *Lecane ploenensis* (VOIGT), Jurucui.
 - 3-4. *L. pertica* HARRING and MYERS, Jurucui.
 5. *L. saginata* HARRING and MYERS, Jurucui.
 6. *L. curvicornis* (MURRAY), Maica.
 7. *L. lauterborni* HAUER, Jurucui.
 8. *L. cornuta* (MÜLLER), Maica.
 9. *L. methoria* HARRING and MYERS, Maica.
-



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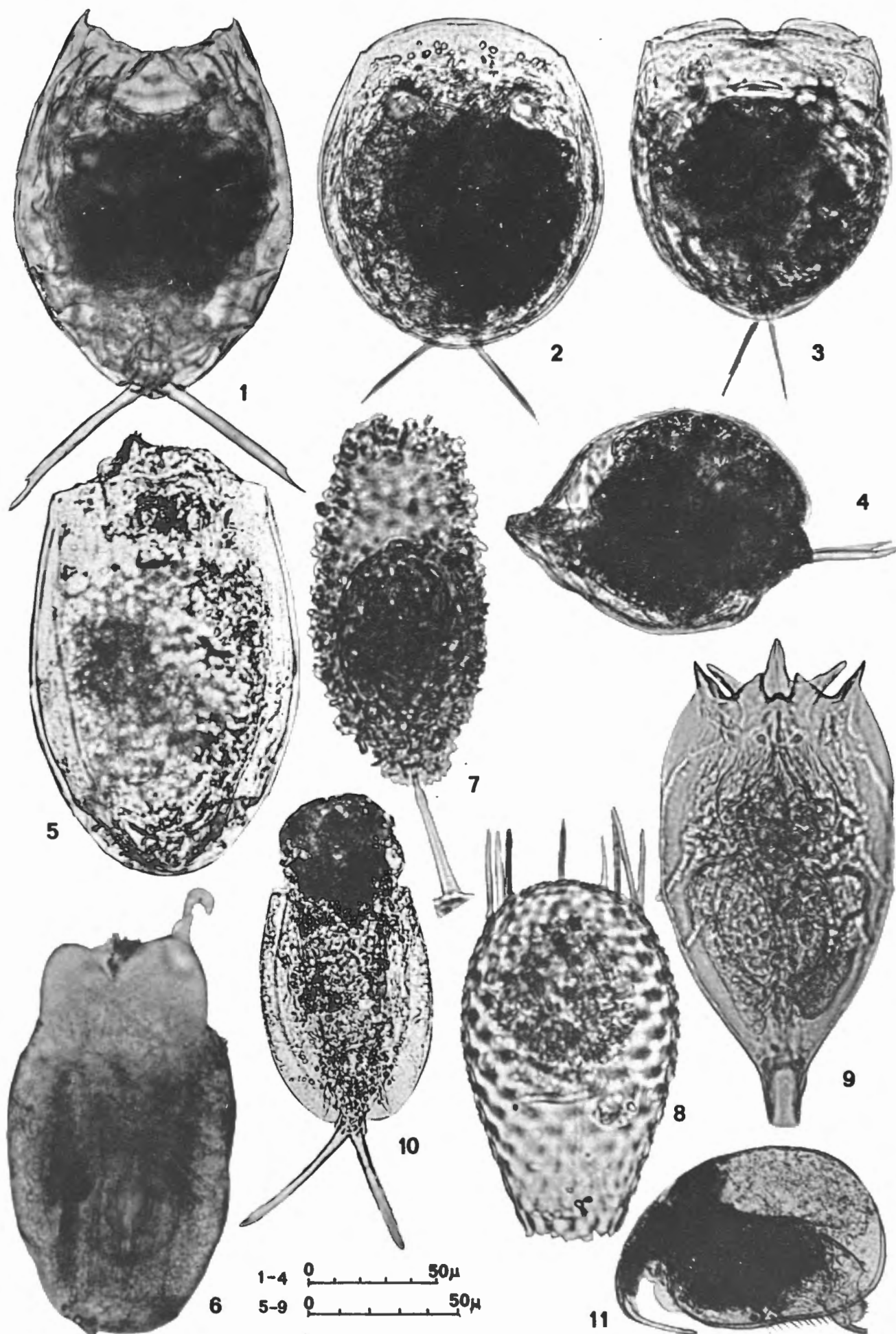




PLATE XXII

EXPLANATION OF PLATE XXII.

1. *Lecane curvicornis nitida* MURRAY, Jurucui.
 2. *L. remanei* HAUER, Jurucui.
 - 3-4. *L. proiecta* HAUER, Maica.
 5. *L. melini* THOM., Maica.
 6. Ciliate, Maica.
 7. *Vagnicola*, Jurucui.
 8. *Euglypha acanthophora* (EHRENB.), Jurucui.
 9. *Testudinella tridentata amazonica* THOM., Jurucui.
 10. *Dipeuchlanis propatula* BEAUCHAMP, Jurucui.
 11. *Alonella* cf. *dadayi* BIRGE, Jurucui.
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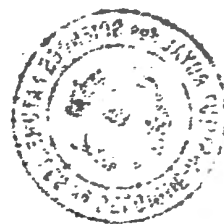


PLATE XXIII

EXPLANATION OF PLATE XXIII.

1. *Lecane remanei* HAUER, Jurucui.
 - 2-3. *Dipeuchlanis* sp., Jurucui.
 4. *Lesquereusia spiralis* EHRENB., Jurucui.
 5. *Lecane leontina* (TURNER), Maica.
 6. *Sinantherina spinosa* (THORPE), Maica.
 - 7-8. *Dissotrocha aculeata medioaculeata* (JANSON), Maica.
-

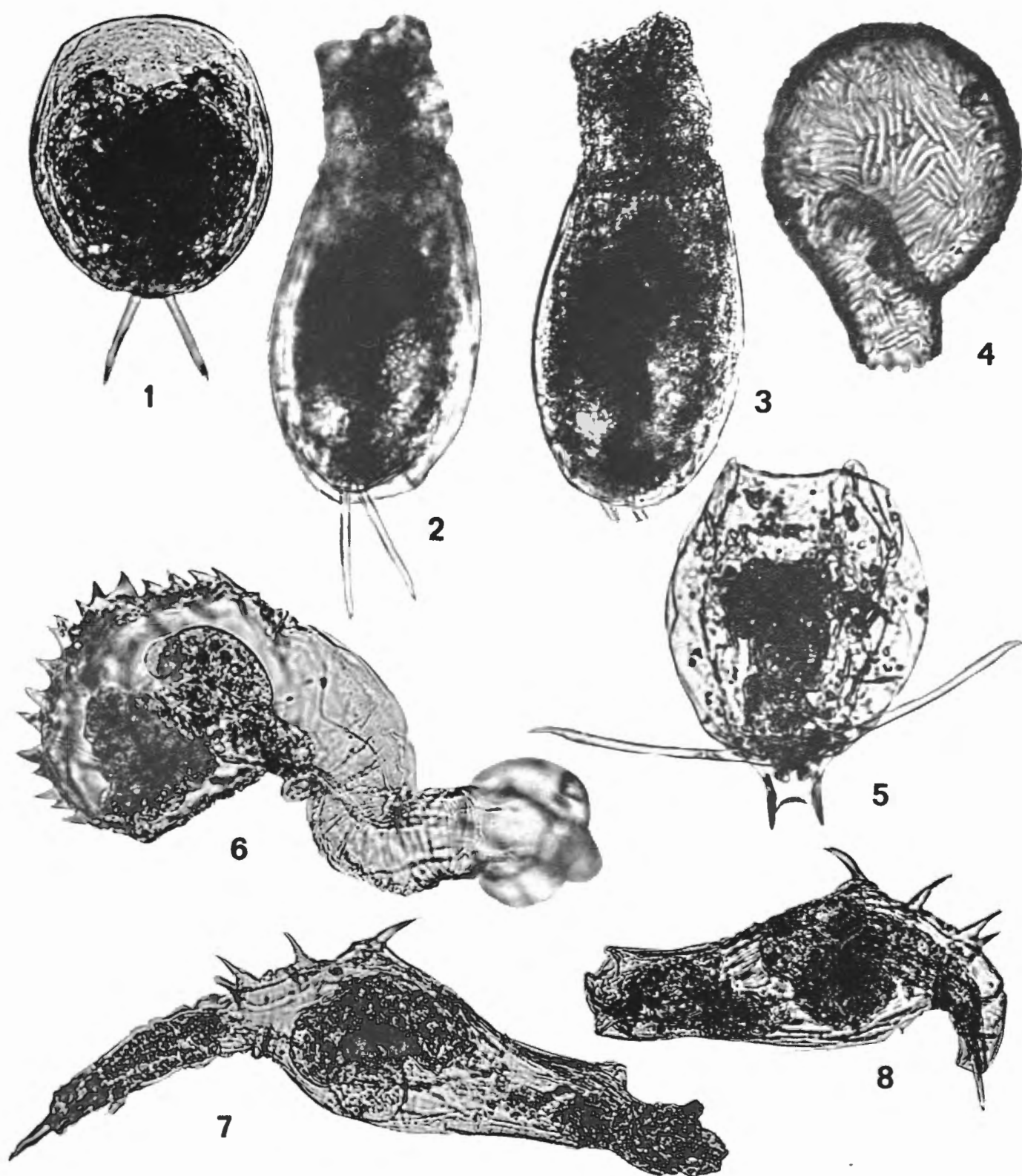


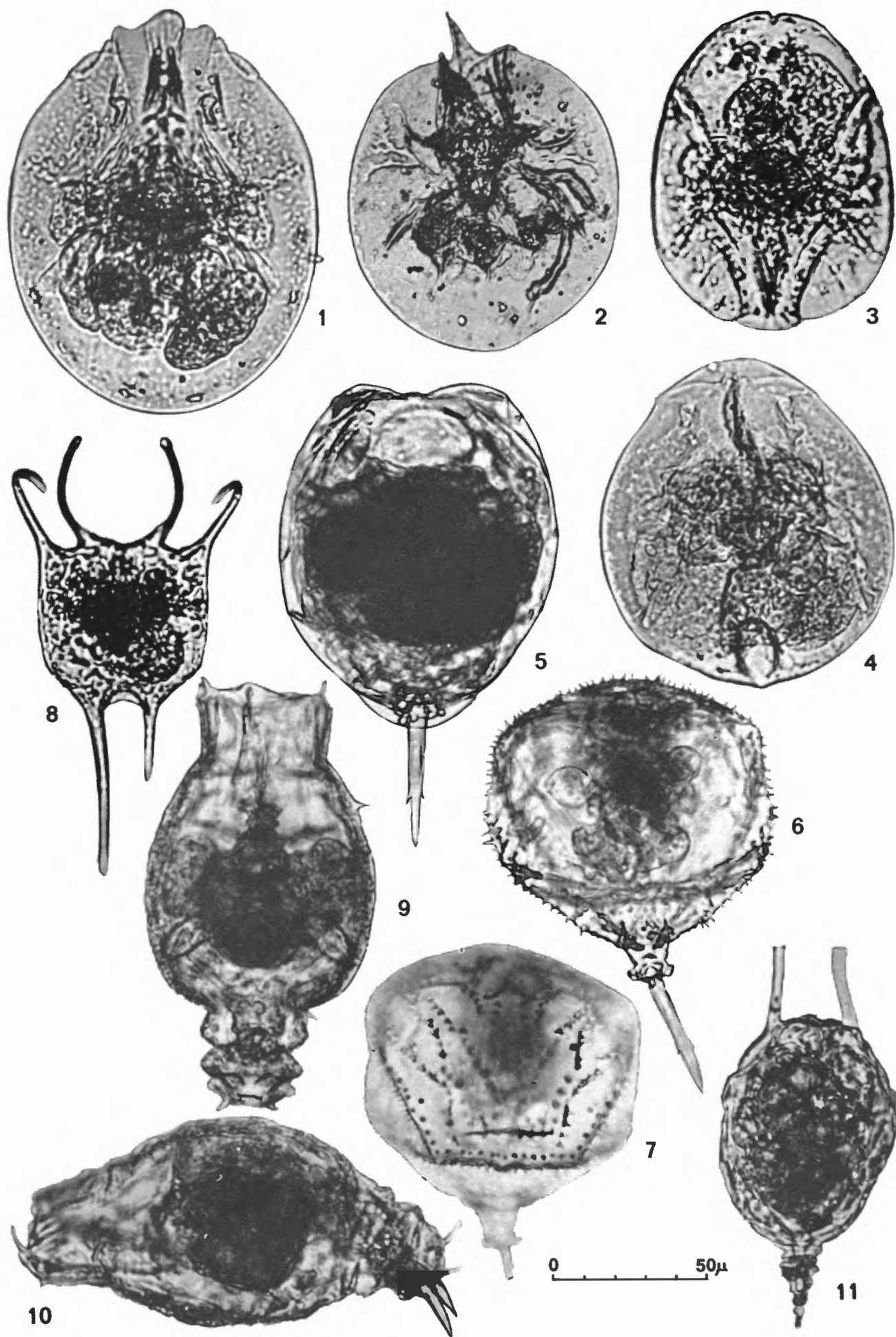




PLATE XXIV

EXPLANATION OF PLATE XXIV.

1. *Testudinella ahlstromi* HAUER, Jurucui.
 2. *T. haueriensis* GILLARD, Maica.
 3. *T. amphora* HAUER, Maica.
 4. *T. semiparva* HAUER, Jurucui.
 5. *Lecane murrayi* HAUER, Jurucui.
 - 6-7. *L. armata* THOM., Jurucui.
 8. *Brachionus gessneri* HAUER, Jurucui.
 - 9-10. *Dissotrocha schliezi* HAUER, Jurucui.
 11. *Ptygura* sp., Maica.
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