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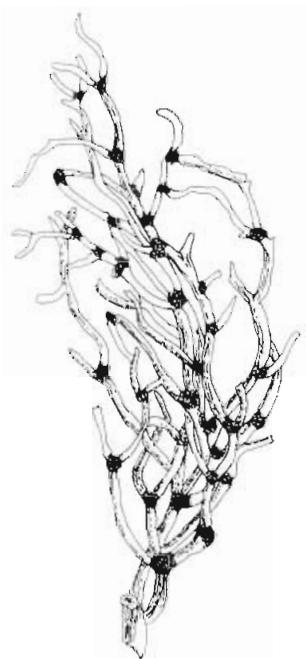


Fig. 1. Hippuris *Coralloides* carnea, CAPENSIS, geniculis limosis. Redrawn originl size from Petiver, 1702: pl.3, fig.10.

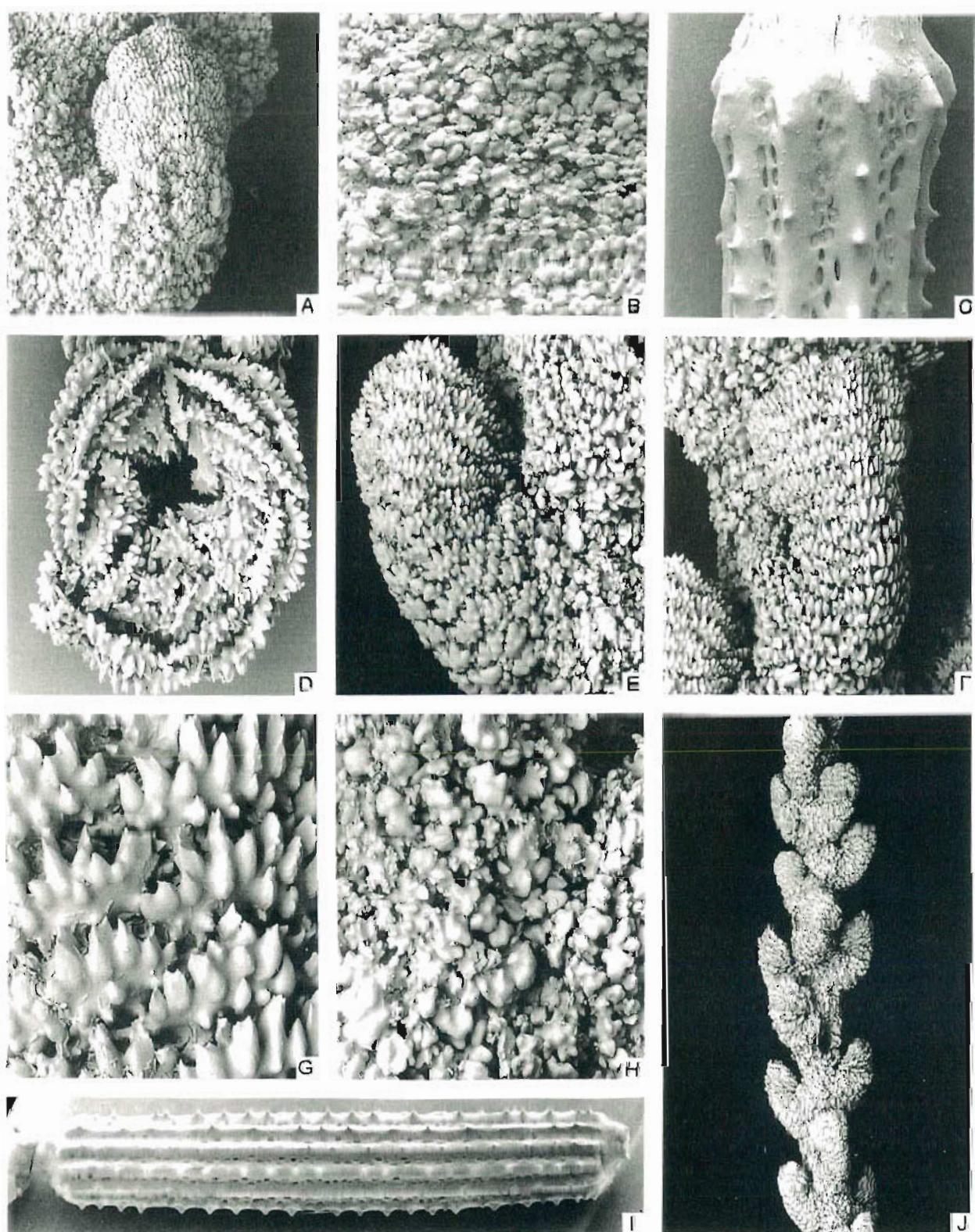


Fig. 2. *Mopsea encrinula* (Lamarck, 1815): A-C. Lectotype: (A). Polyp; (B). Coenenchyme; (C). Axial internode. D-J. NTM C1175: (D-F). Polyps; (G). Polyp body detail; (H). Coenenchyme; (I). Axial internode; (J). Twig fragment.



Fig. 3. *Mopsea encrinula* (Lamarck, 1815), NTM C1175, natural size x 0.86.

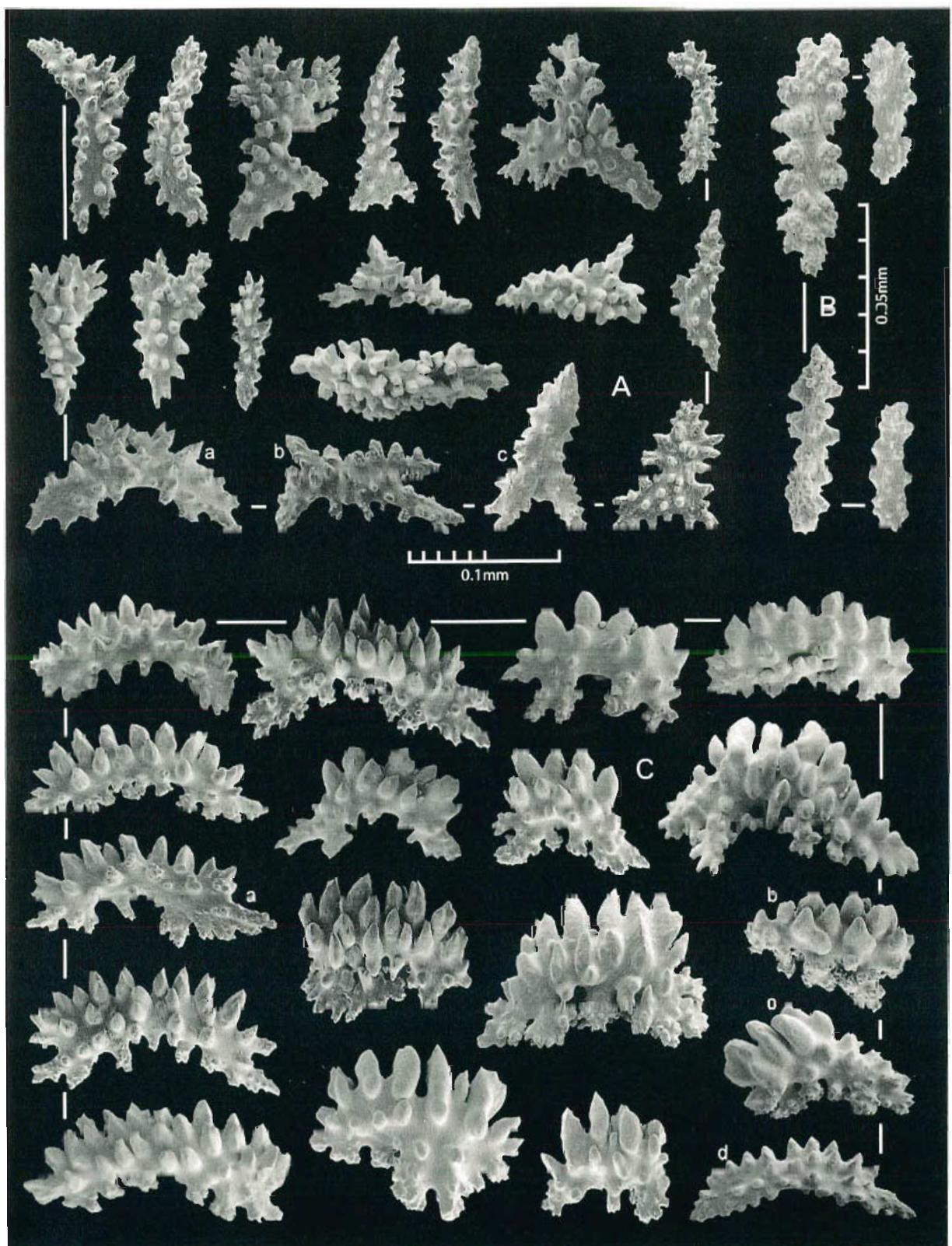


Fig. 4. *Mopsea encrinula* (Lamarck, 1815), NTM C1175, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

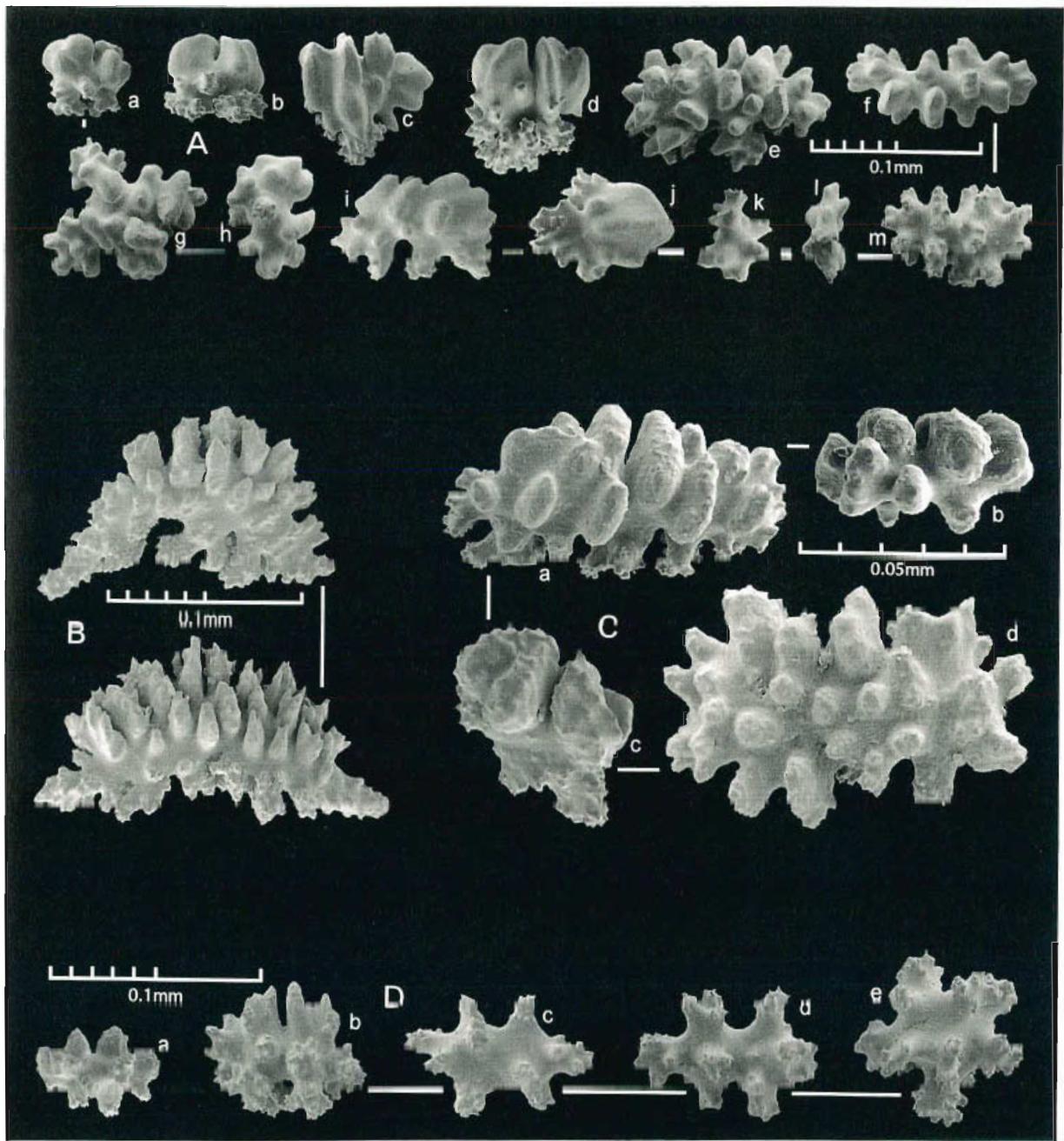


Fig. 5. *Mopsea encrinula* (Lamarck, 1815), sclerites: A. NTM C1175, branch coenenchyme; B. WAM 216-86, Polyp scales; C. WAM 216-86, branch coenenchyme; D. WAM 215-86, basal stem coenenchyme.

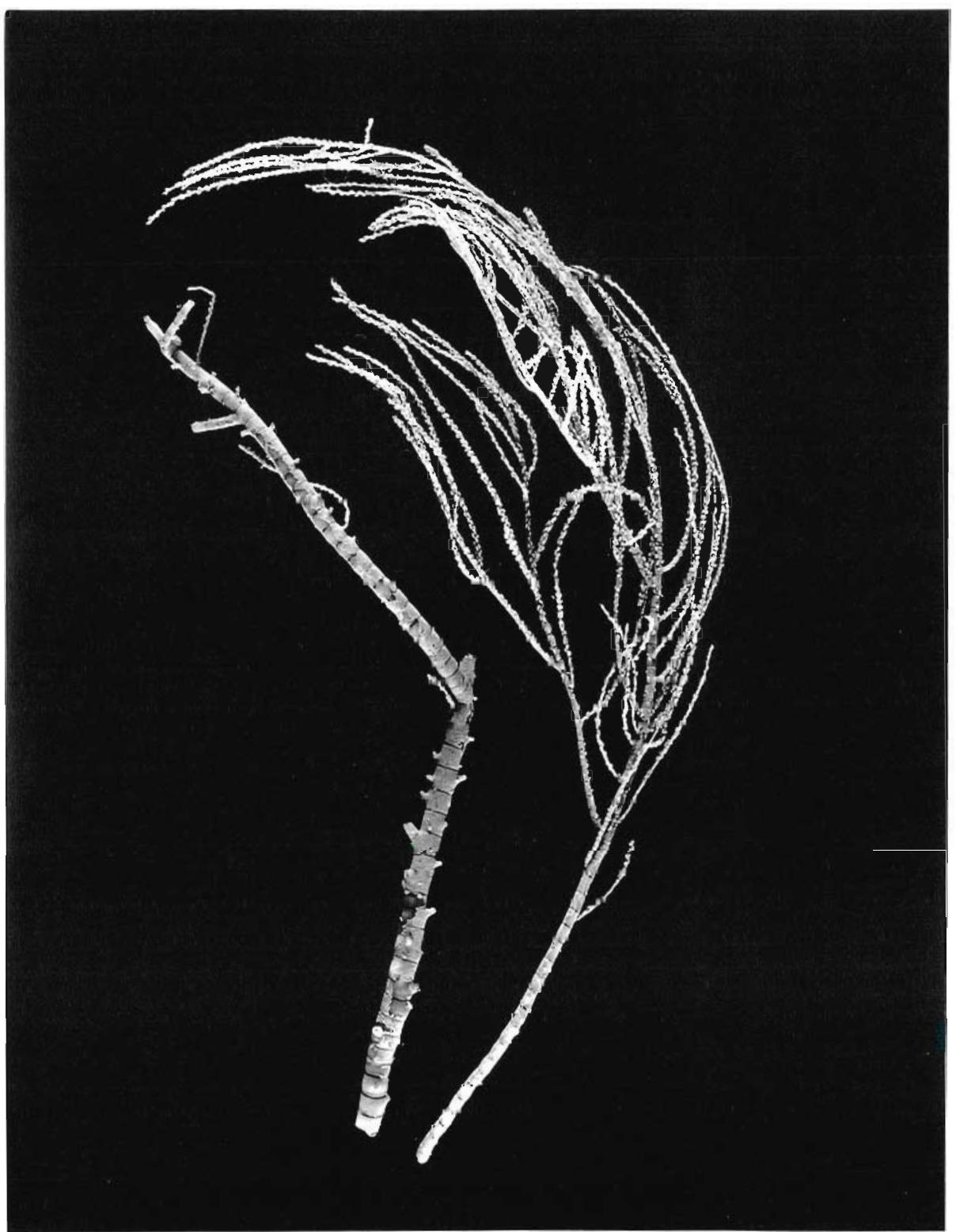


Fig. 6. *Mopsea encrinula* (Lamarck, 1815), SAM H836, natural size.

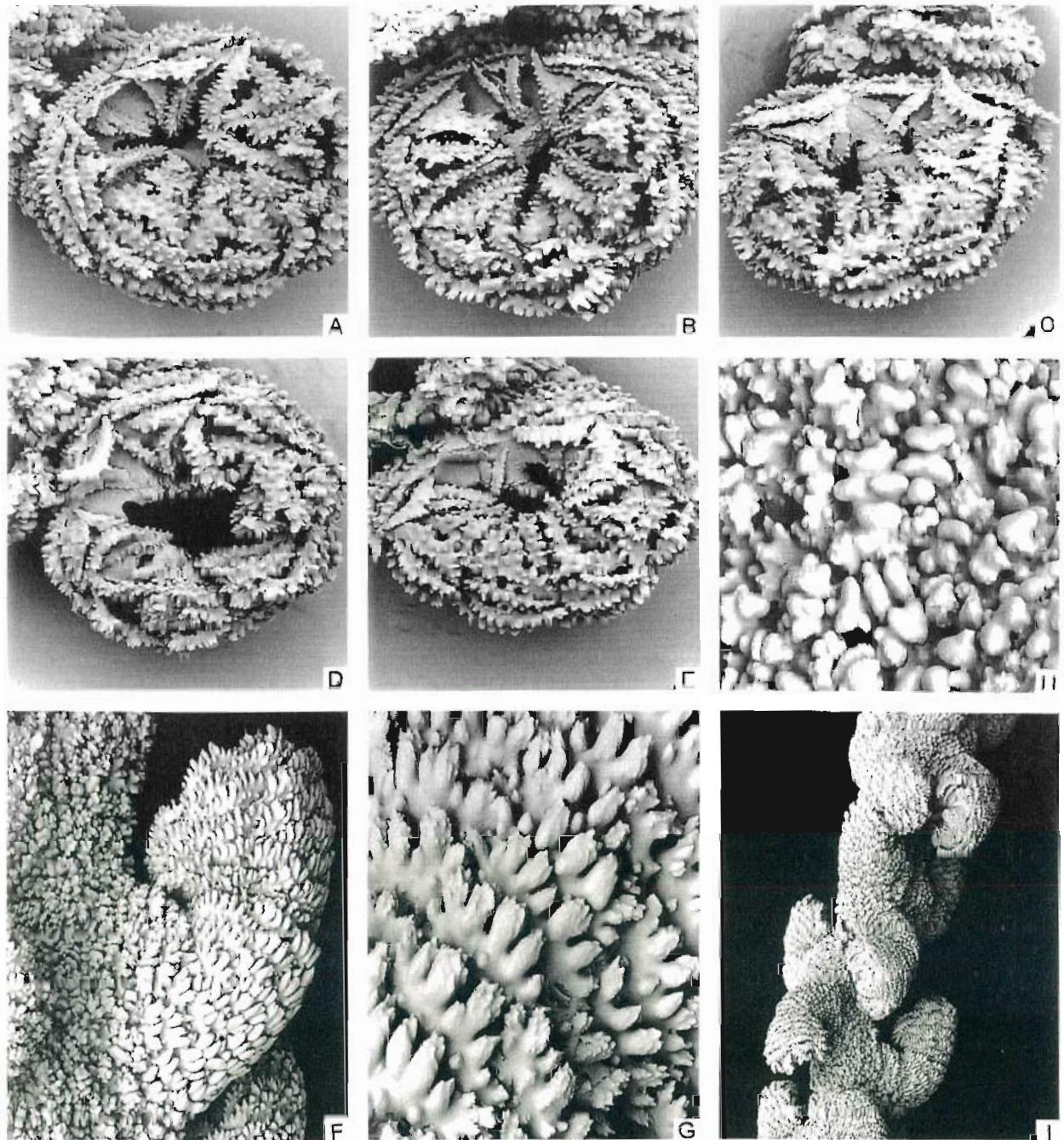


Fig. 7. *Mopsea encrinula* (Lamarck, 1815), WAM 216-86: A-F. Polyps; G. Polyp body detail; H. Coenenchyme; I. Twig fragment.



Fig. 8. *Mopsea triaknema* n.sp.: A. Holotype; B. Paratype, AM G12146. Both natural size.

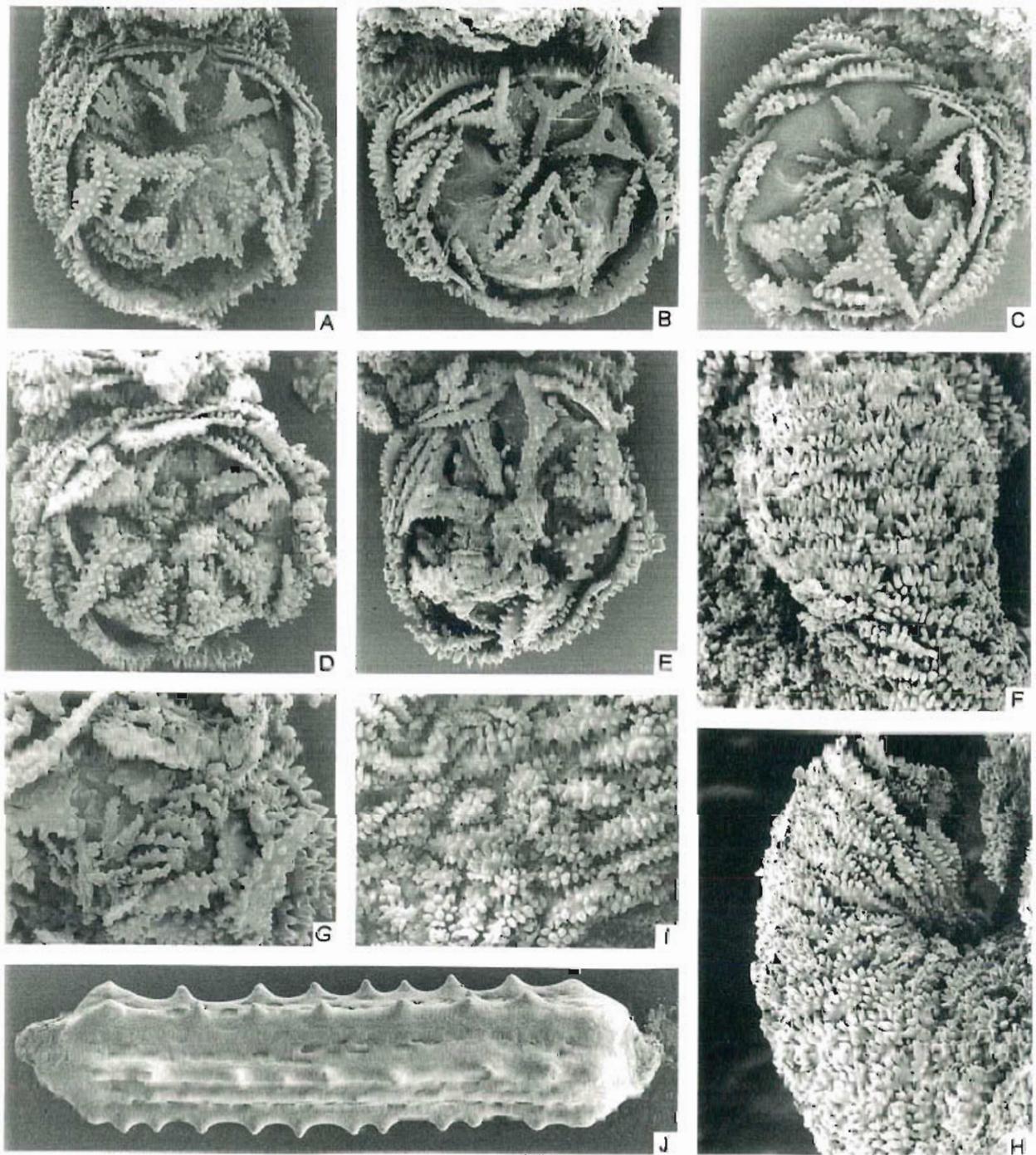


Fig. 9. *Mopsea triaknema* n.sp., holotype: A-H. Polyps; I. Coenenchyme; J. Axial internode.

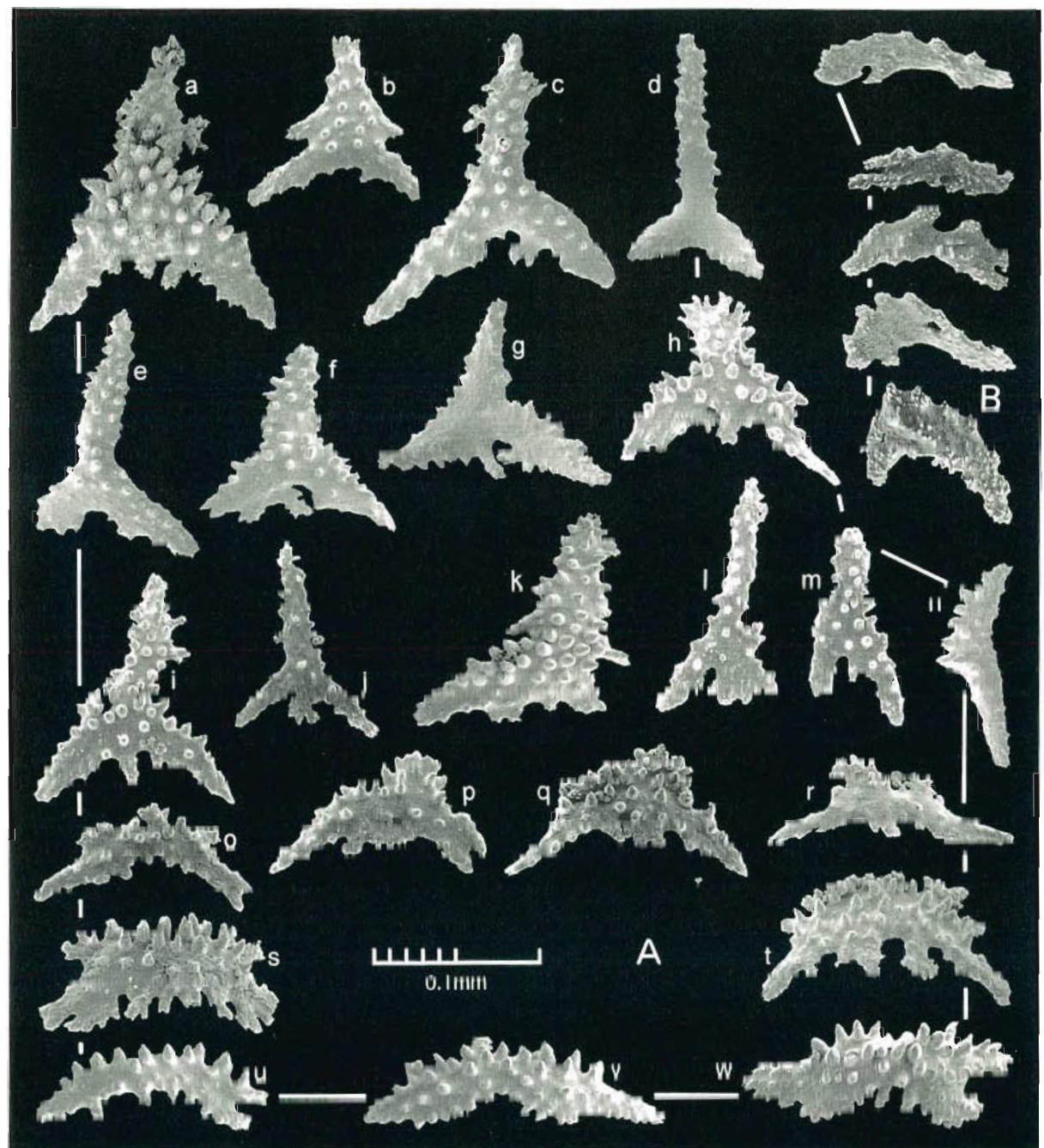


Fig. 10. *Mopsea triaknema* n.sp., holotype, sclerites: A. Anthopoma; B. Tentacles.

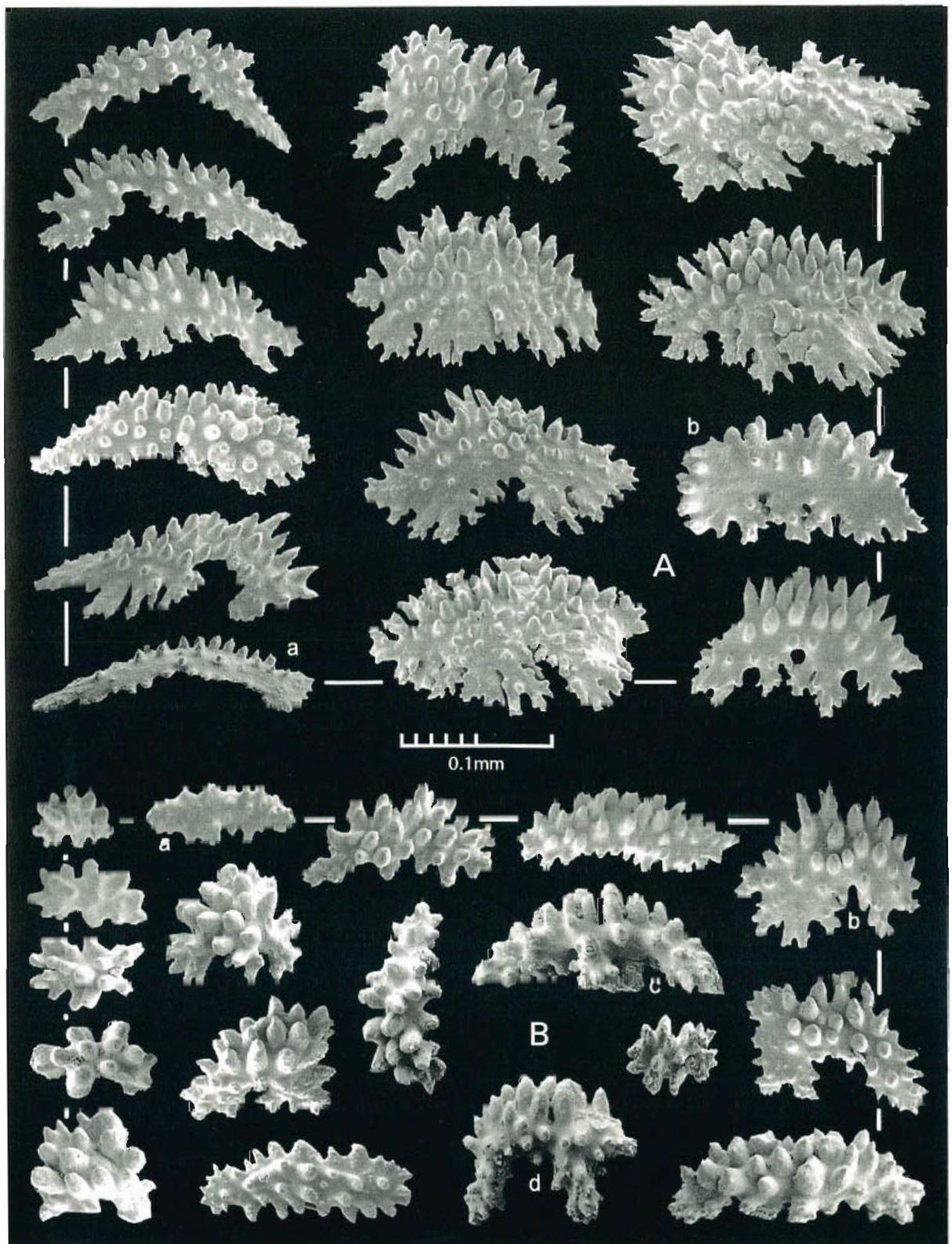


Fig. 11. *Mopsea triknema* n.sp., holotype, sclerites: A. Polyp body; B. Pinna and branch coenenchyme.

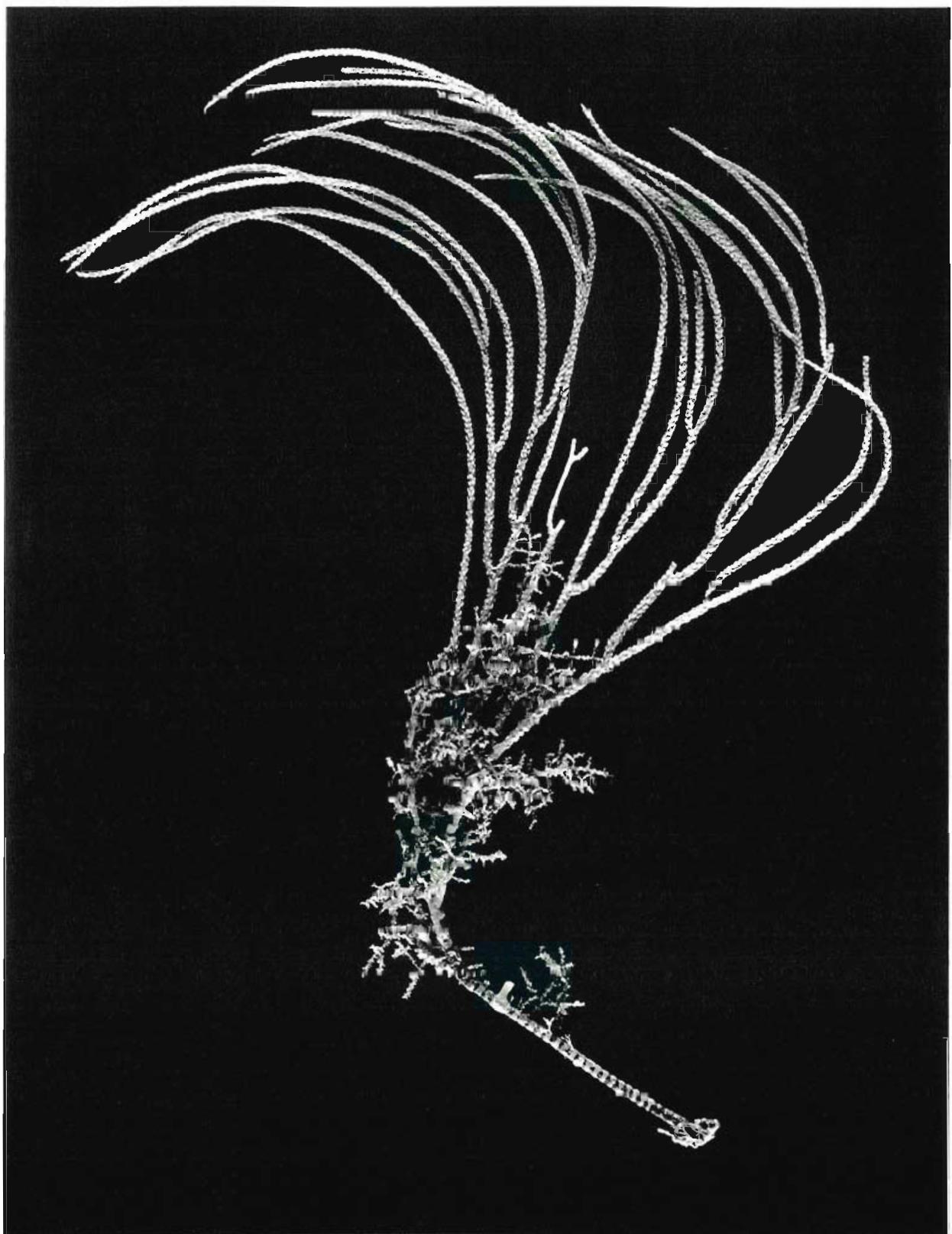


Fig. 12. *Oparinis flexilis* n.sp., holotype, natural size.

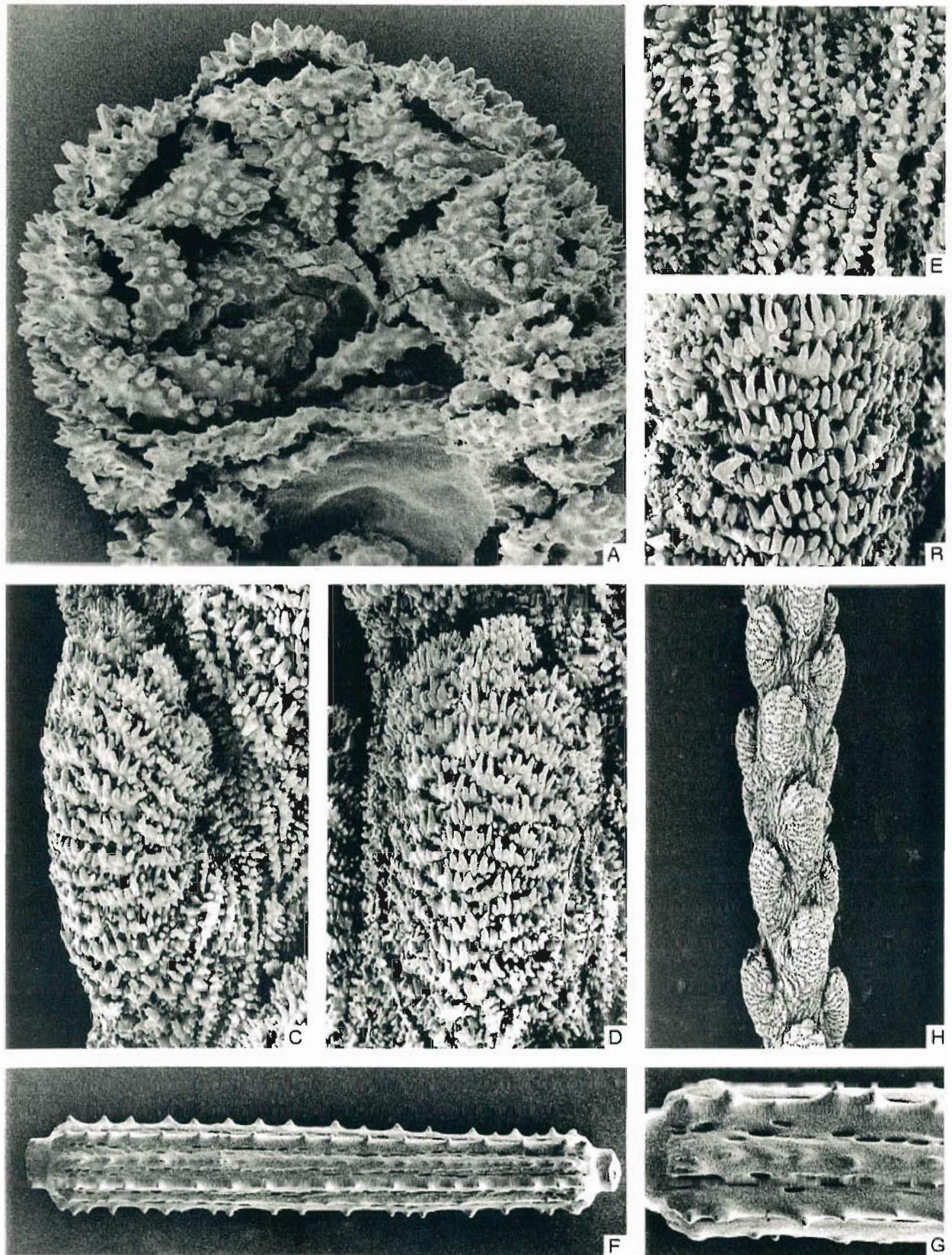


Fig. 13. *Oparinis flexilis* n.sp., holotype: A-D. Polyps; E. Coenenchyme; F-G. Axial internodes; H. Twig fragment.

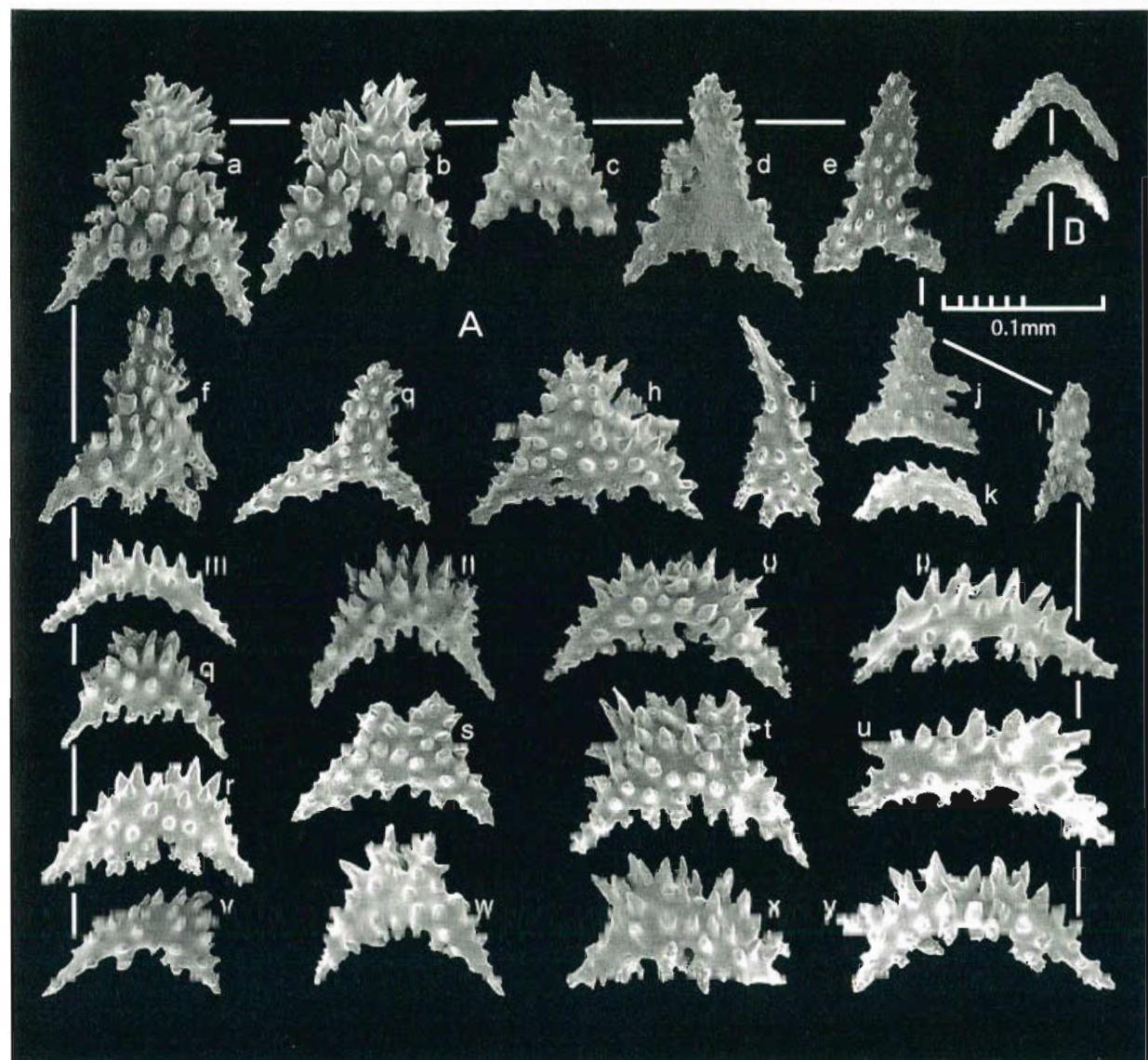


Fig. 14. *Oparinis flexilis* n.sp., holotype, sclerites: A. Anthopoma; B. Tentacles.

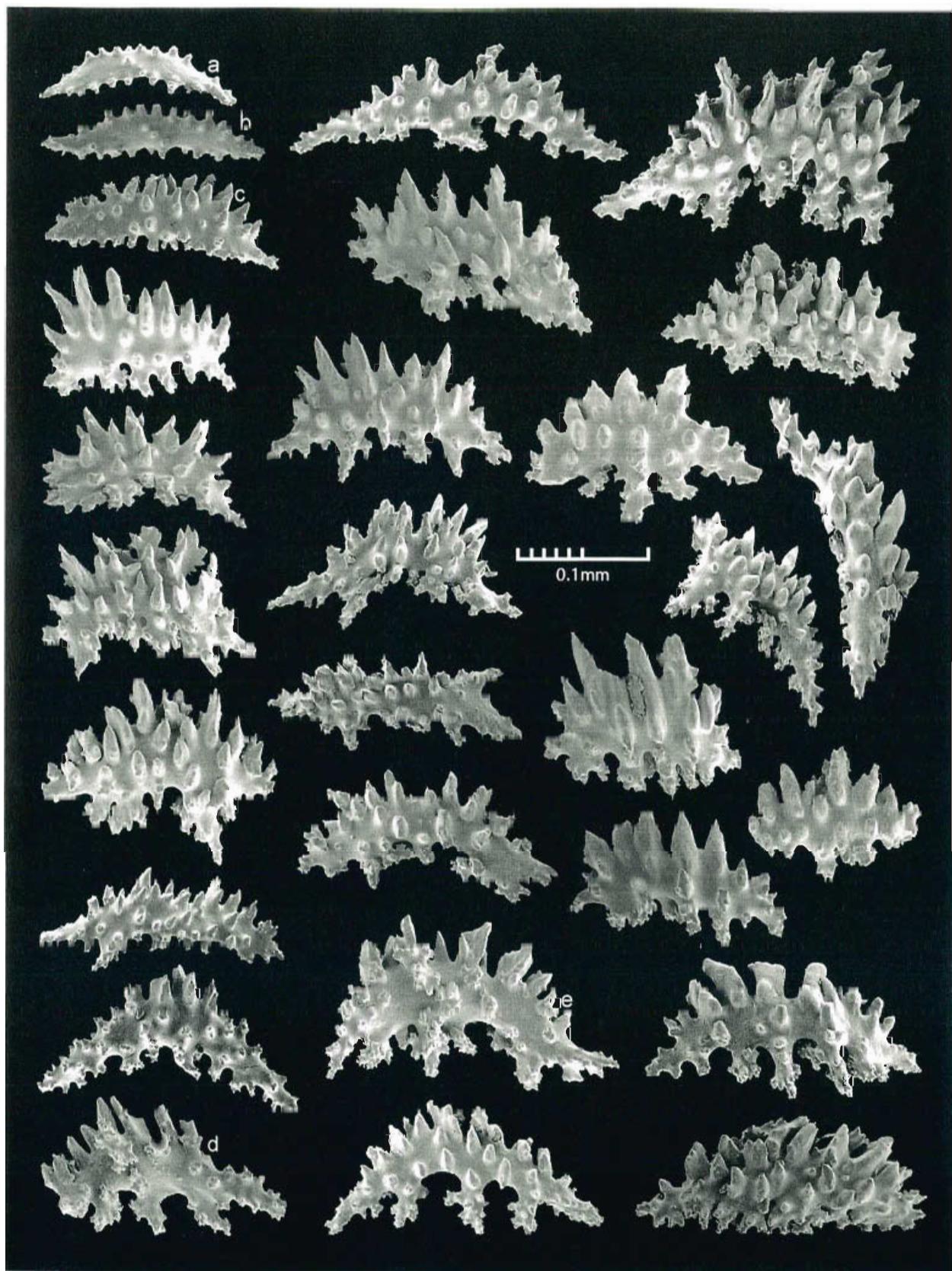


Fig. 15. *Oparinis flexilis* n.sp., holotype, sclerites: Polyp body.

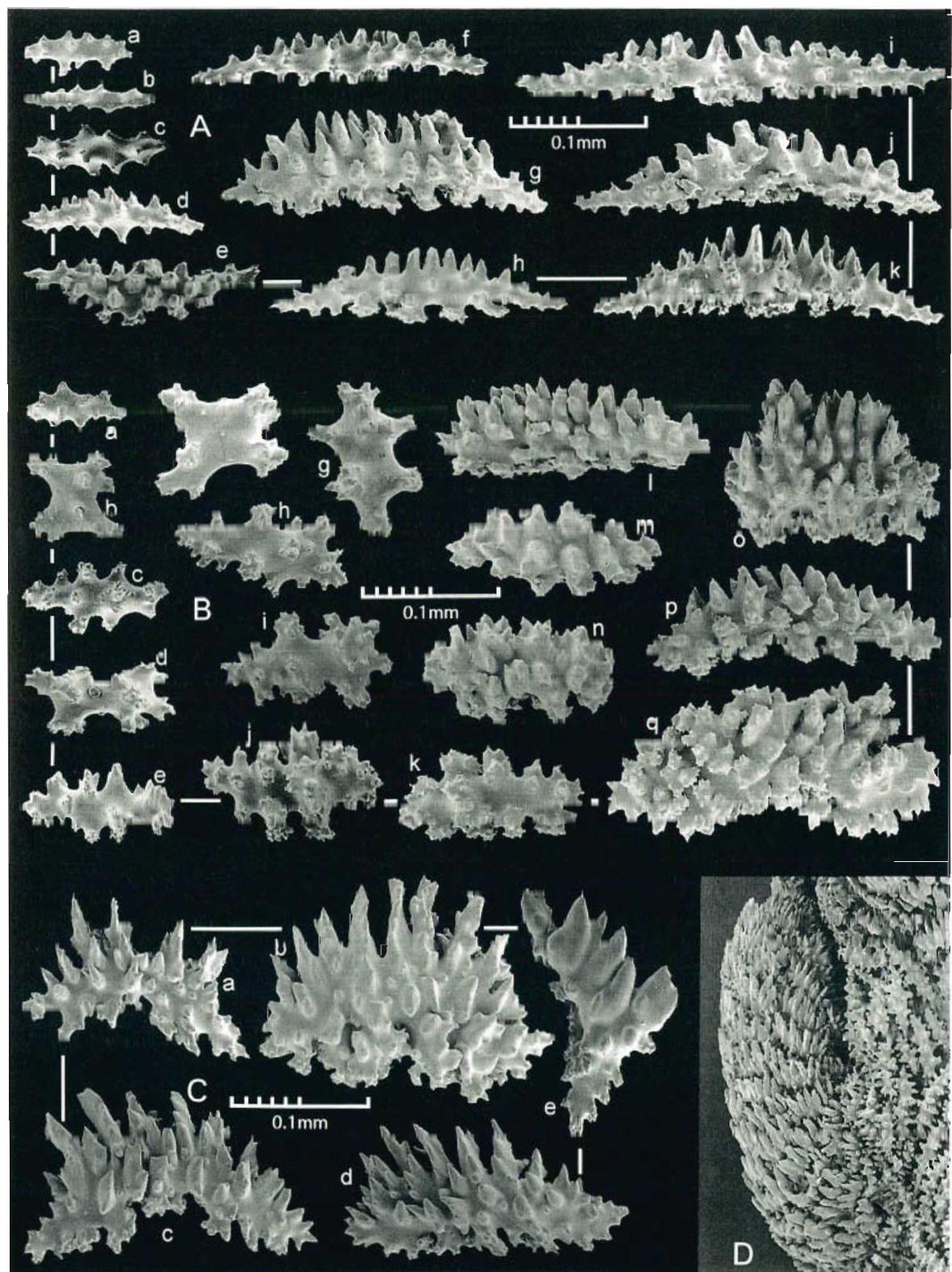


Fig. 16. *Oparinis flexilis* n.sp., sclerites: A. Holotype, twig coenenchyme; B. Holotype, main branch coenenchyme; C. Paratype, polyp body; D. Paratype, polyp.

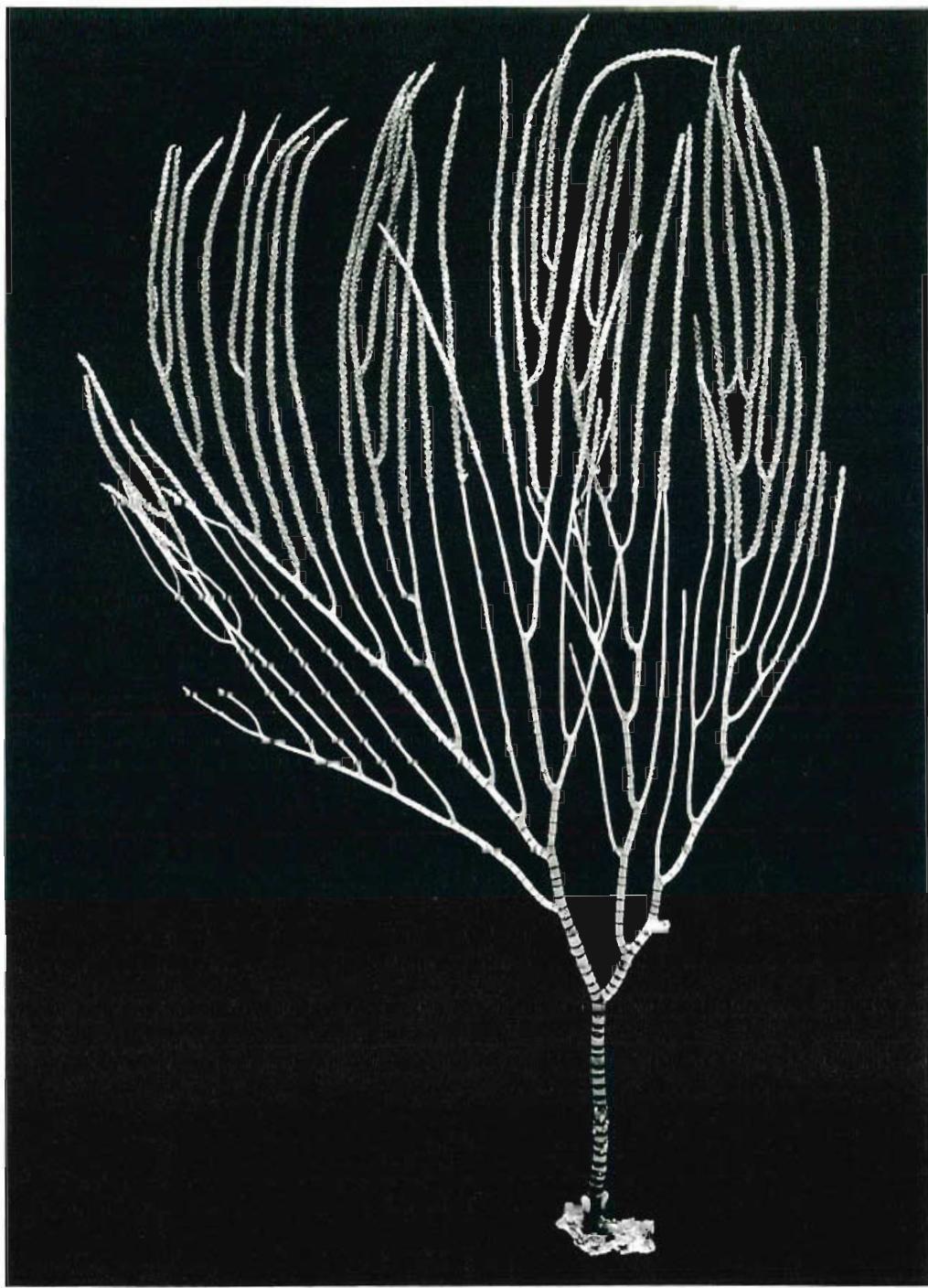


Fig. 17. *Oparinias flexilis* n.sp., paratype, NTM C10949 (part), natural size.



Fig. 18. *Oparinias parkeri* n.sp., holotype, natural size.

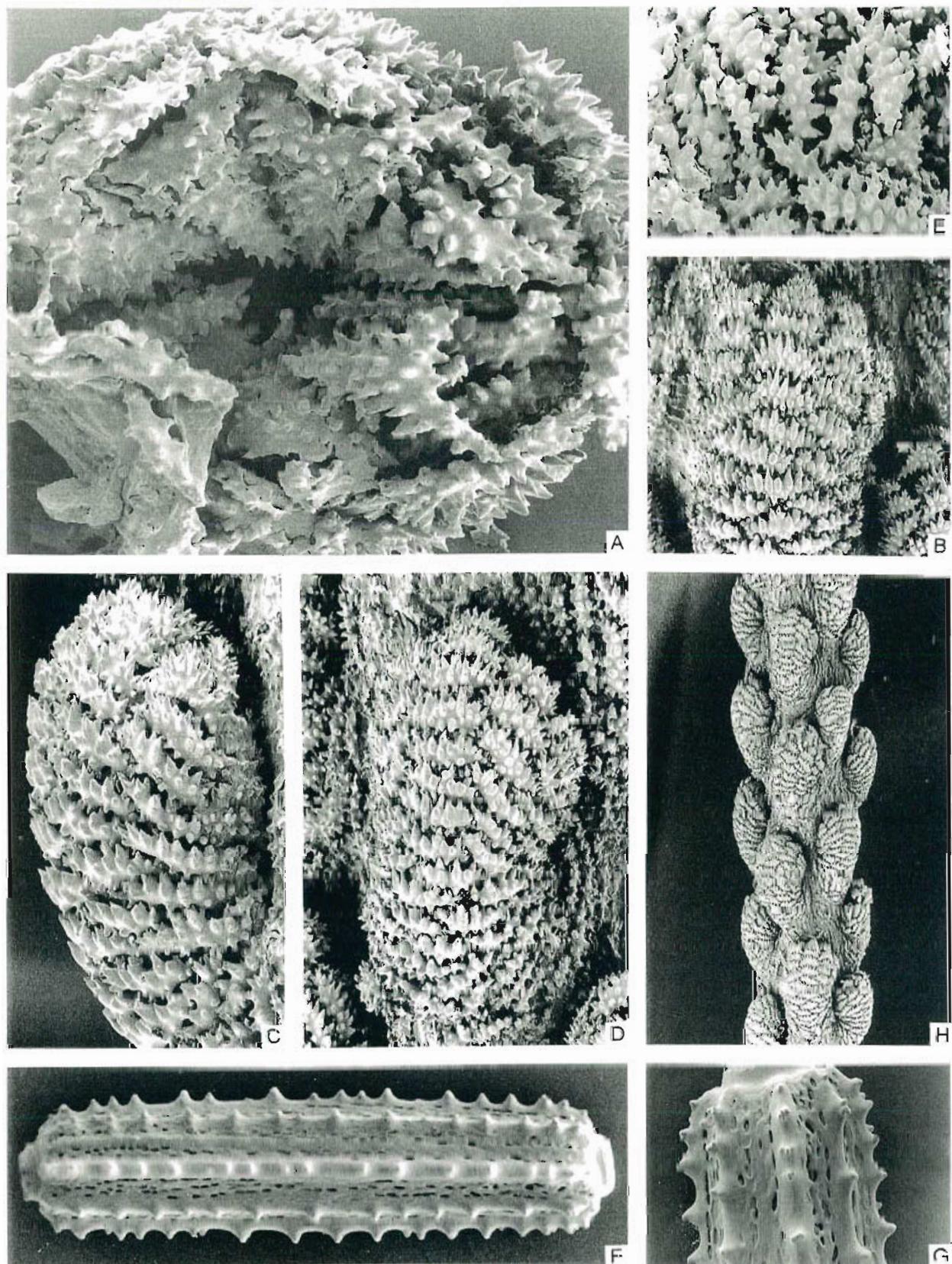


Fig. 19. *Oparinis parkeri* n.sp., holotype: A-D. Polyps; E. Coenenchyme; F-G. Axial internodes; H. Twig fragment.

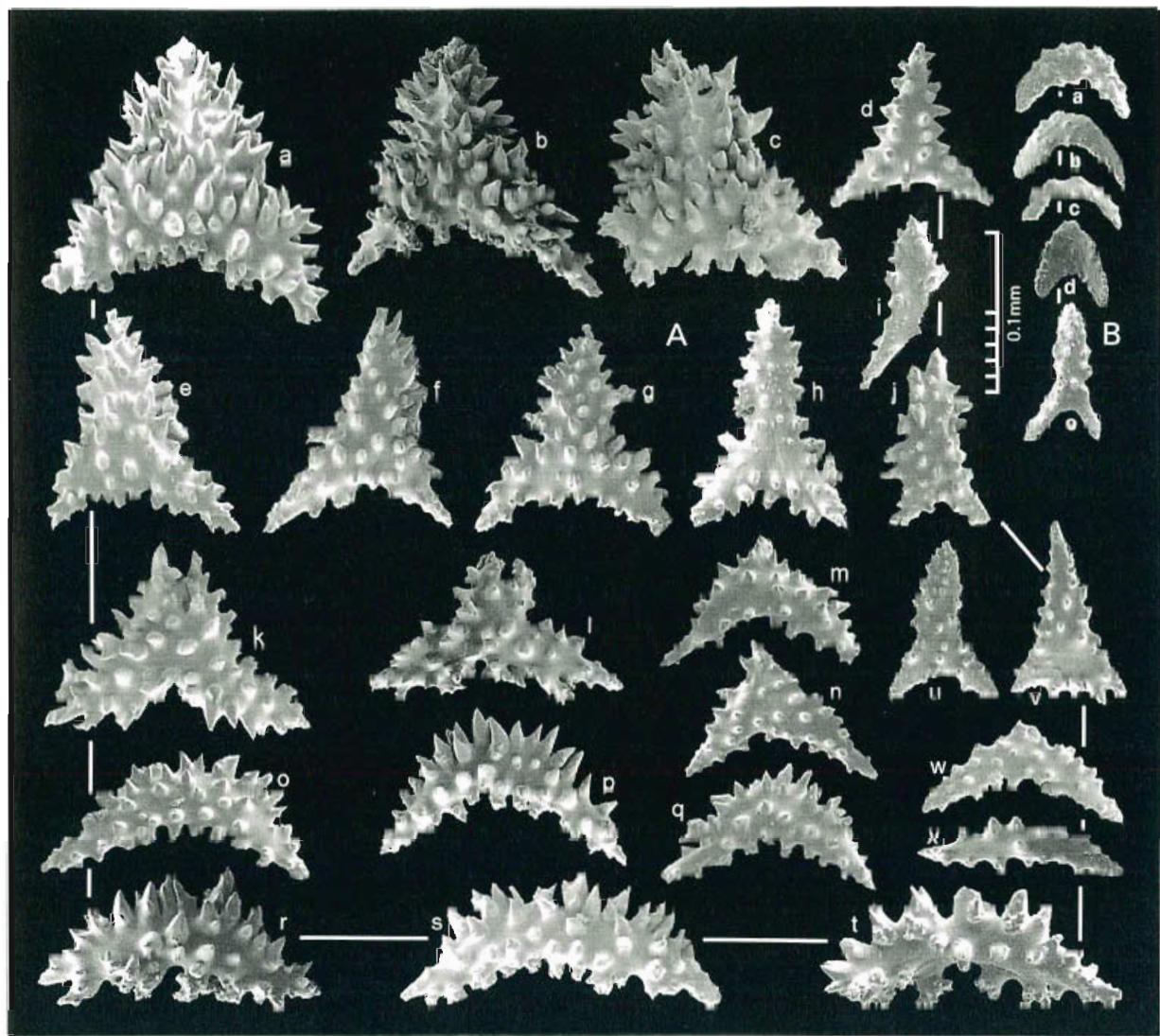


Fig. 20. *Oparinis parkeri* n.sp., holotype, sclerites: A. Anthopoma; B. Tentacles.

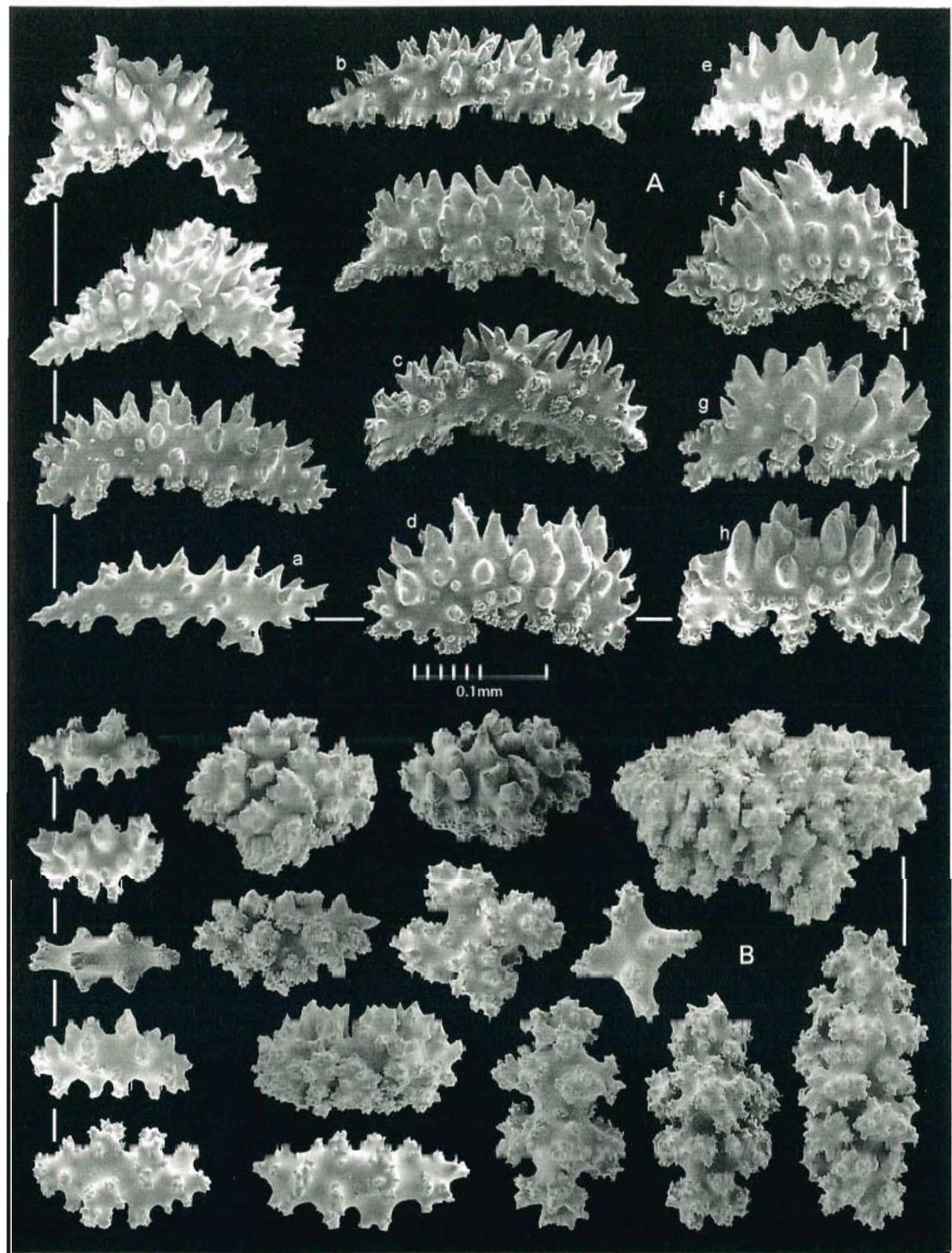


Fig. 21. *Oparinis parkeri* n.sp., holotype, sclerites: A. Polyp body; B. Main branch and stem coenenchyme.

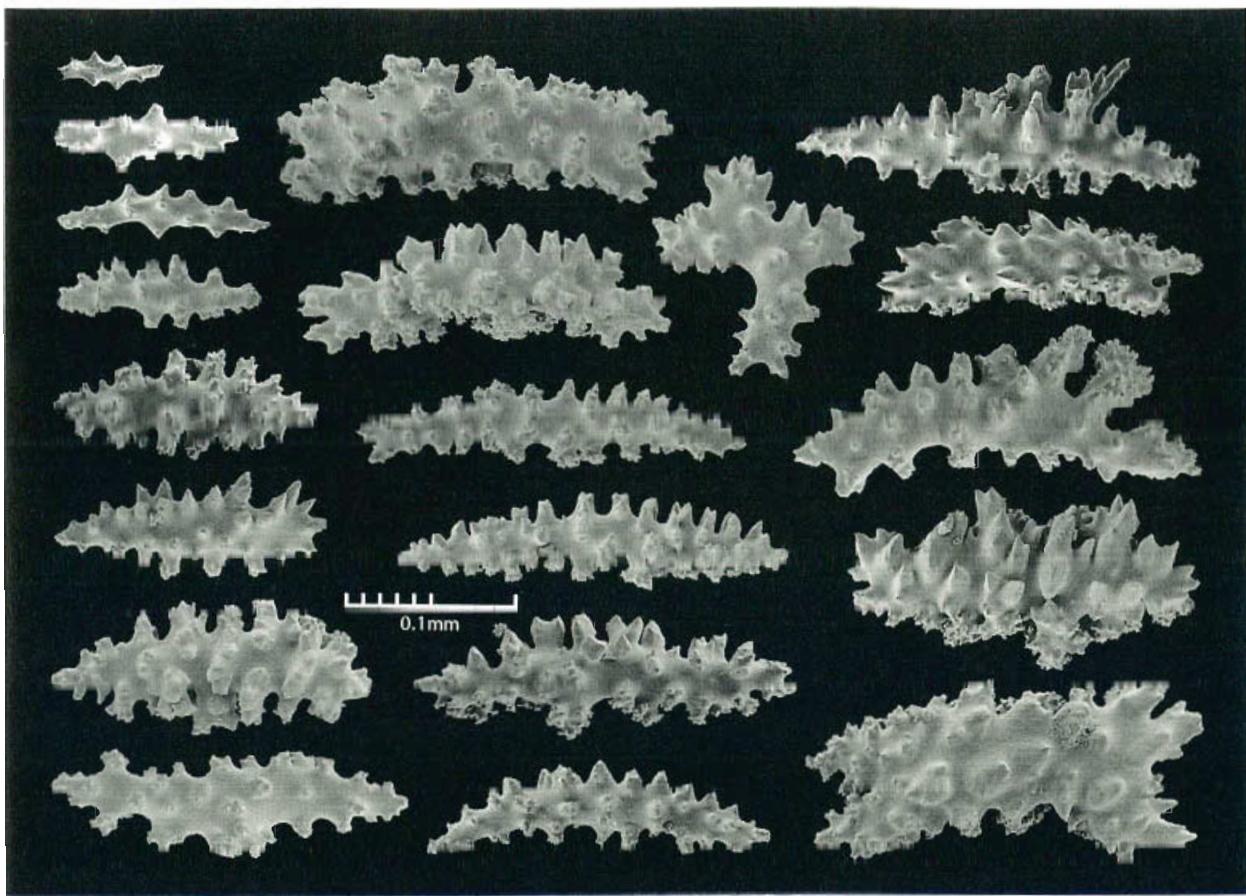


Fig. 22. *Oparinis parkeri* n.sp., holotype, sclerites: Thin branch coenenchyme.

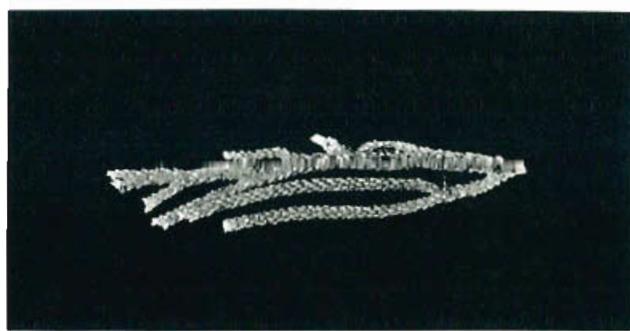


Fig. 23. *Oparinis viking* n.sp., holotype, natural size.

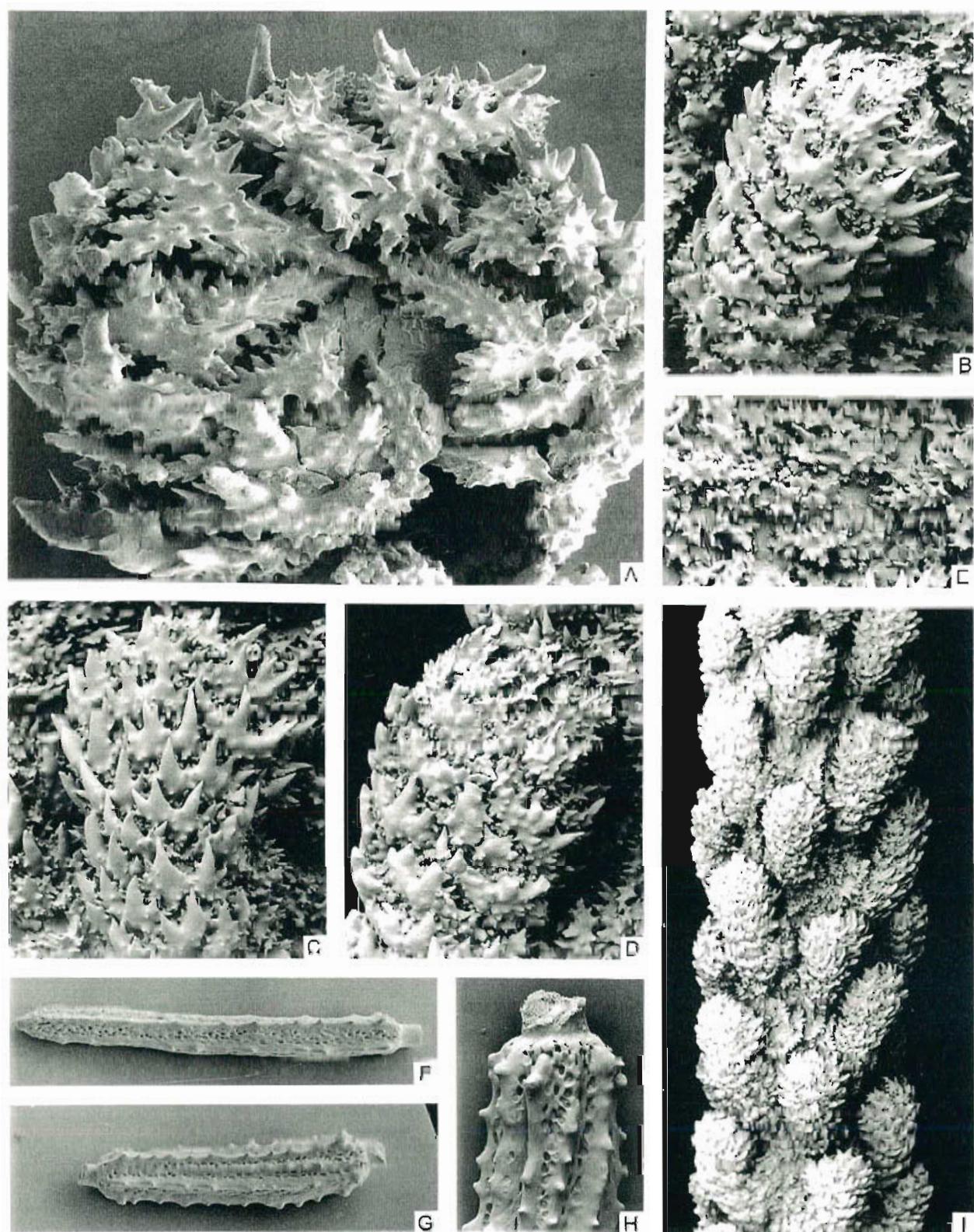


Fig. 24. *Oparinis viking* n.sp., holotype: A-D. Polyps; E. Coenenchyme; F-H. Axial internodes; I. Twig fragment.

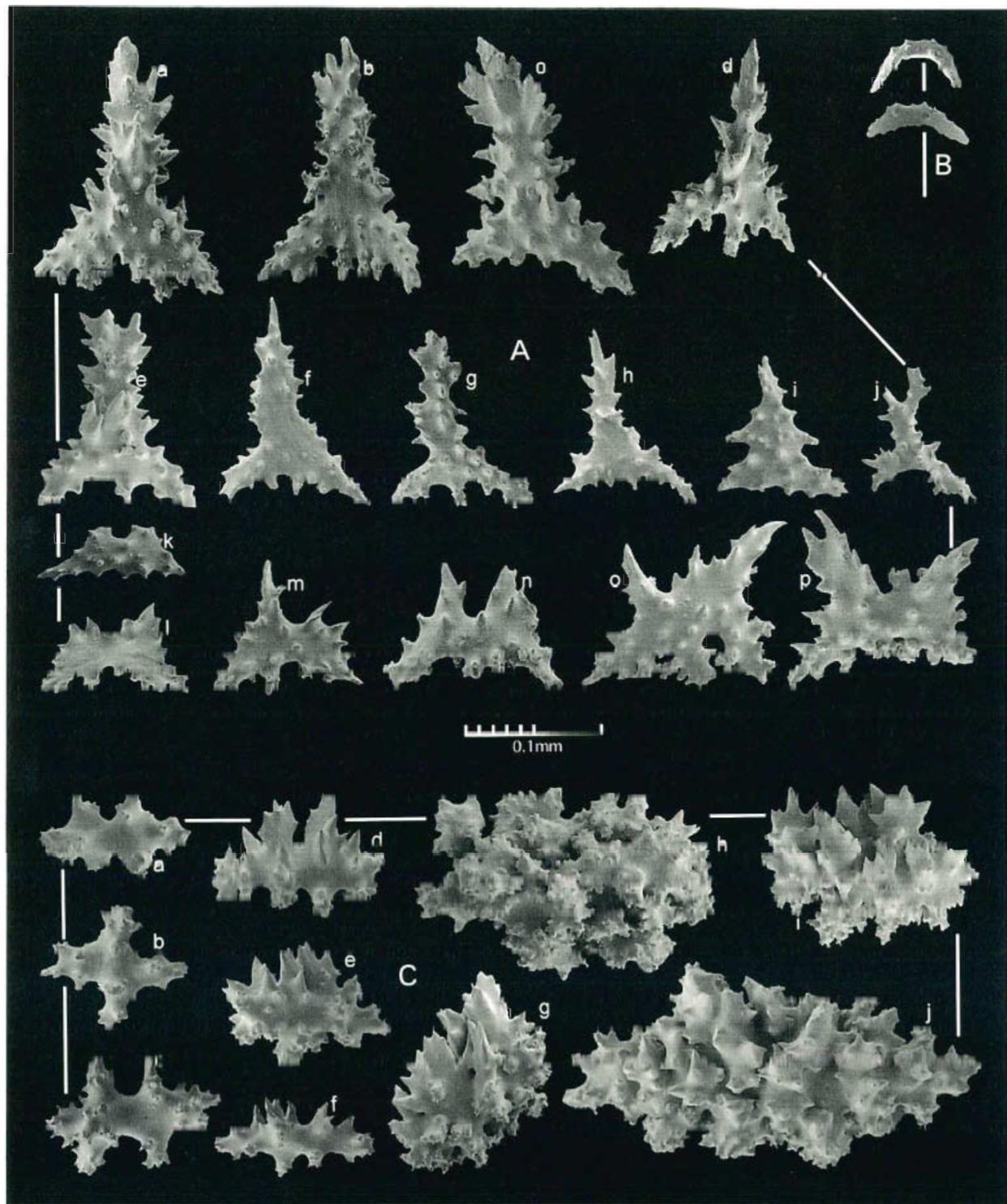


Fig. 25. *Oparinis viking* n.sp., holotype, sclerites: A. Anthopoma; B. Tentacles; C. Branch coenenchyme.

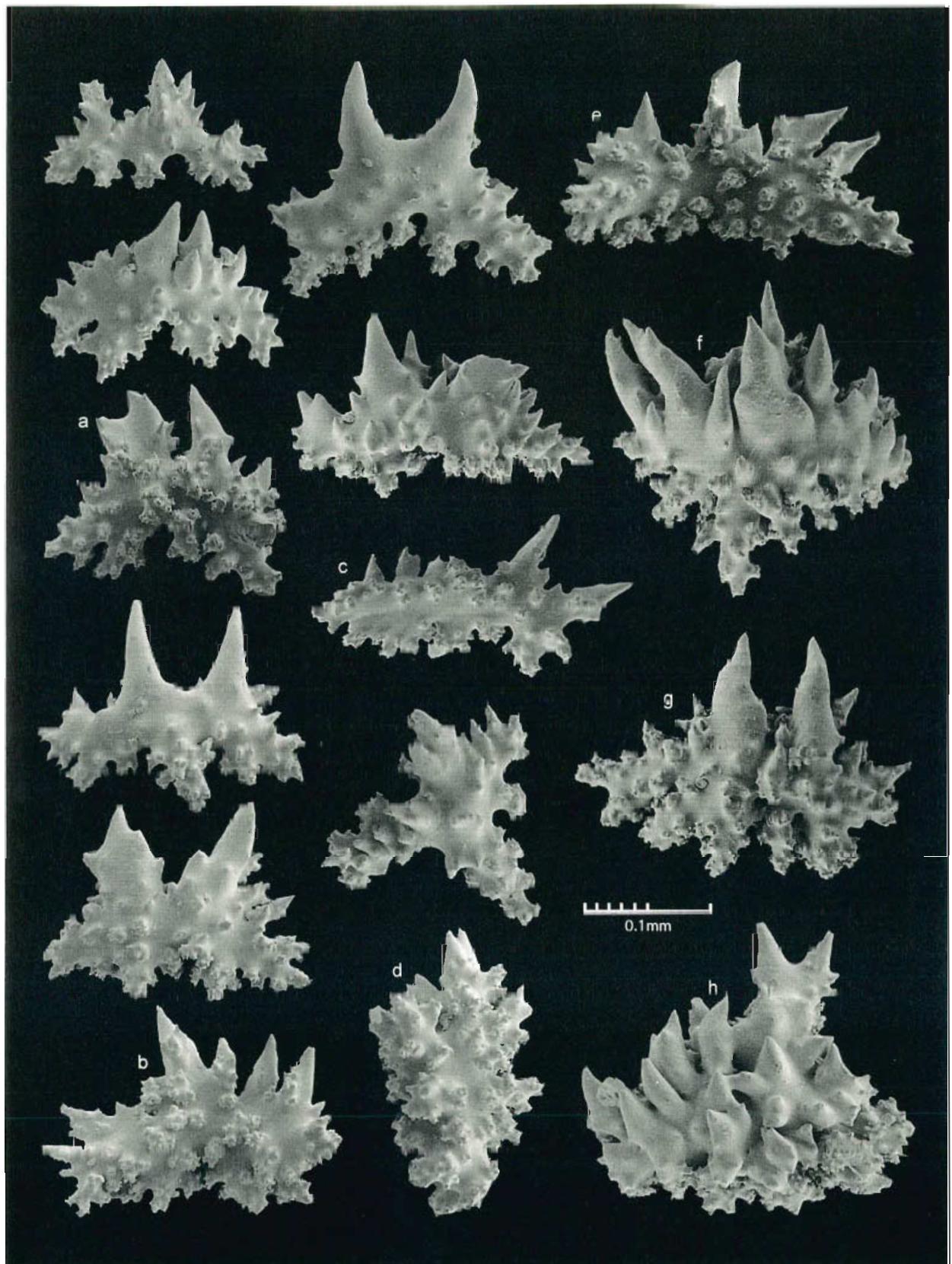


Fig. 26. *Oparinis viking* n.sp., holotype, sclerites: Polyp body.



Fig. 27. *Tethrasis suzannae* n.sp., holotype, natural size x 0.75.

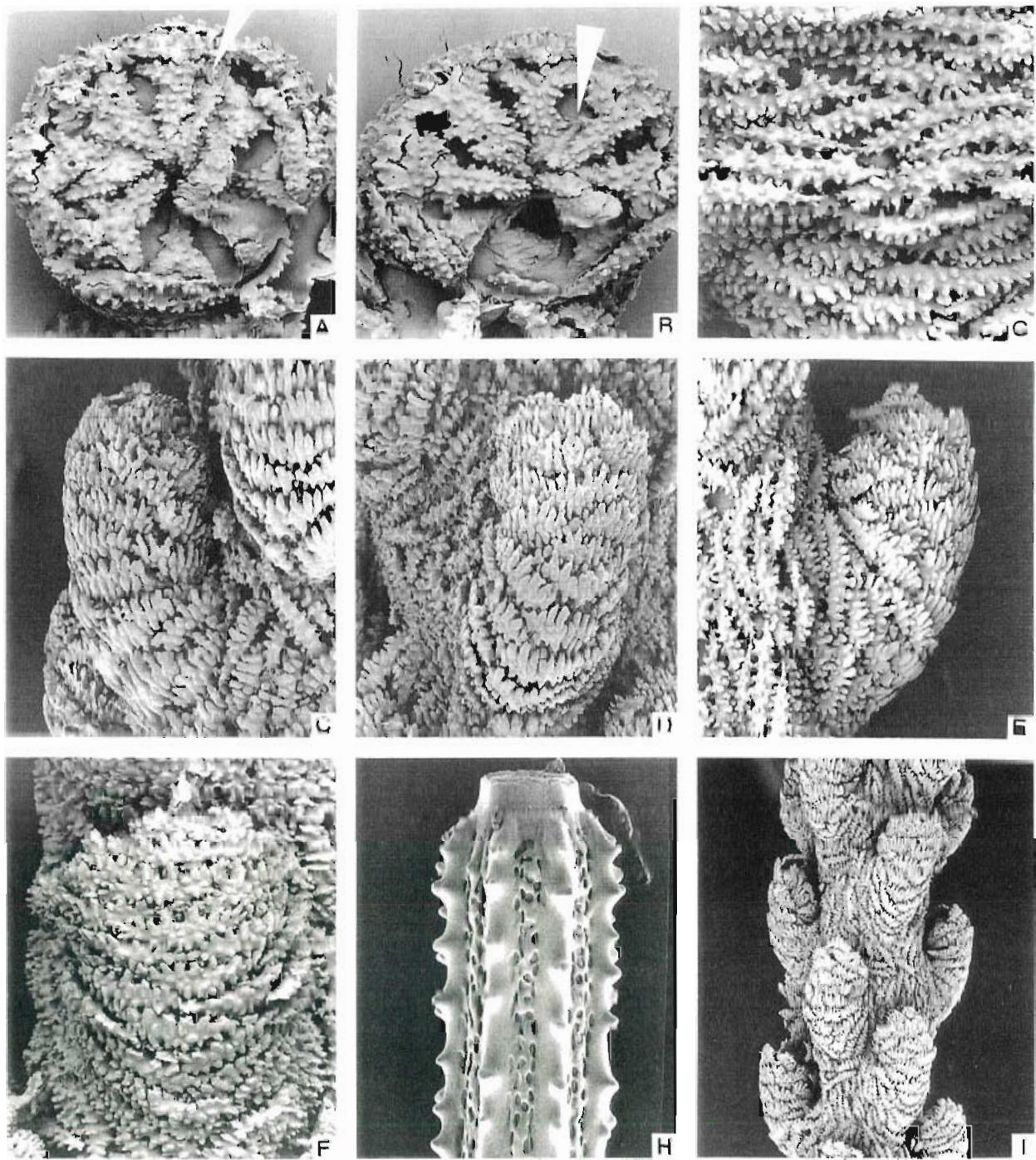


Fig. 28. *Tethritis suzannae* n.sp., holotype: A-F. Polyps; G. Coenenchyme; H. Axial internode; I. Twig fragment.

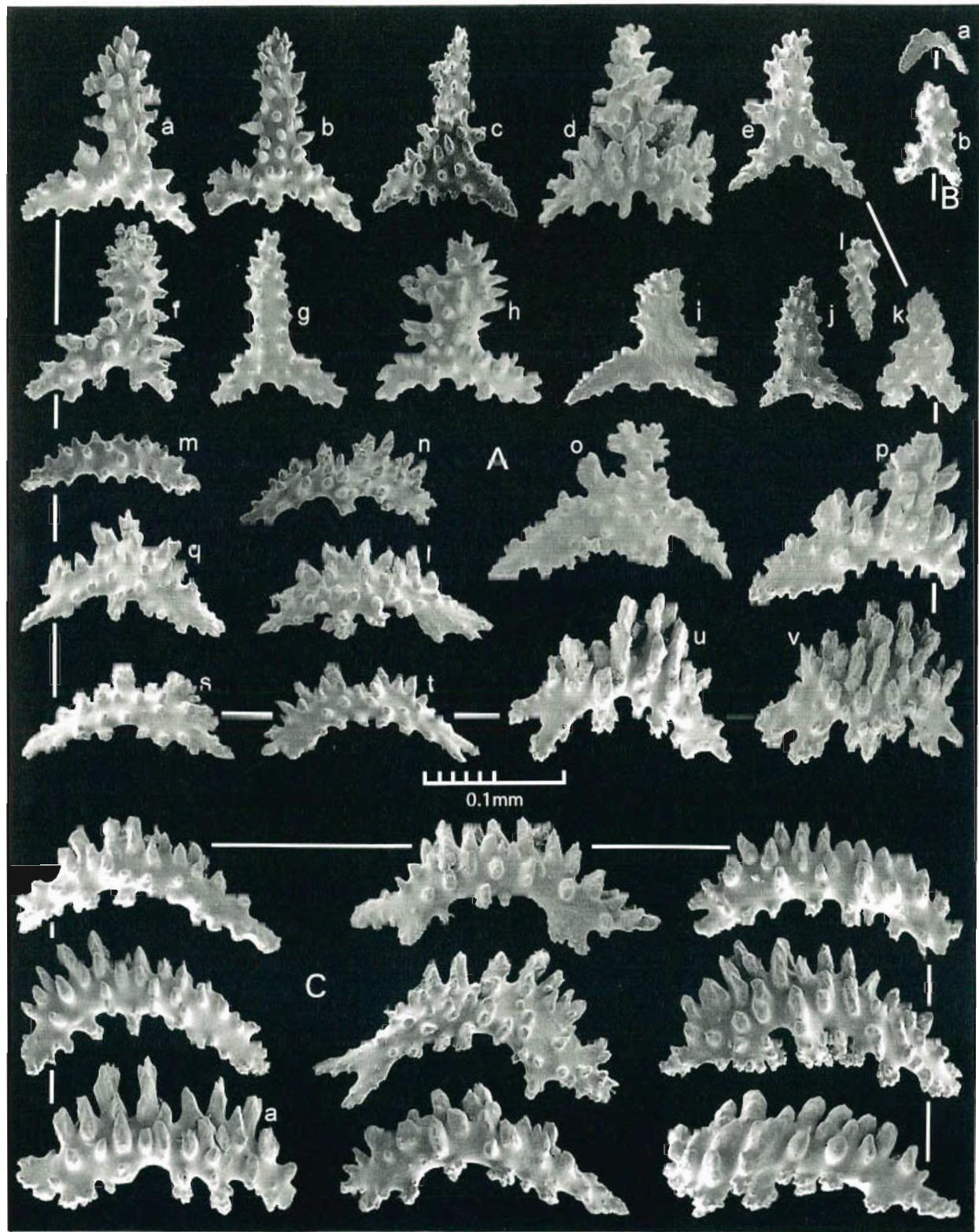


Fig. 29. *Tethrasis suzanneae* n.sp., holotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

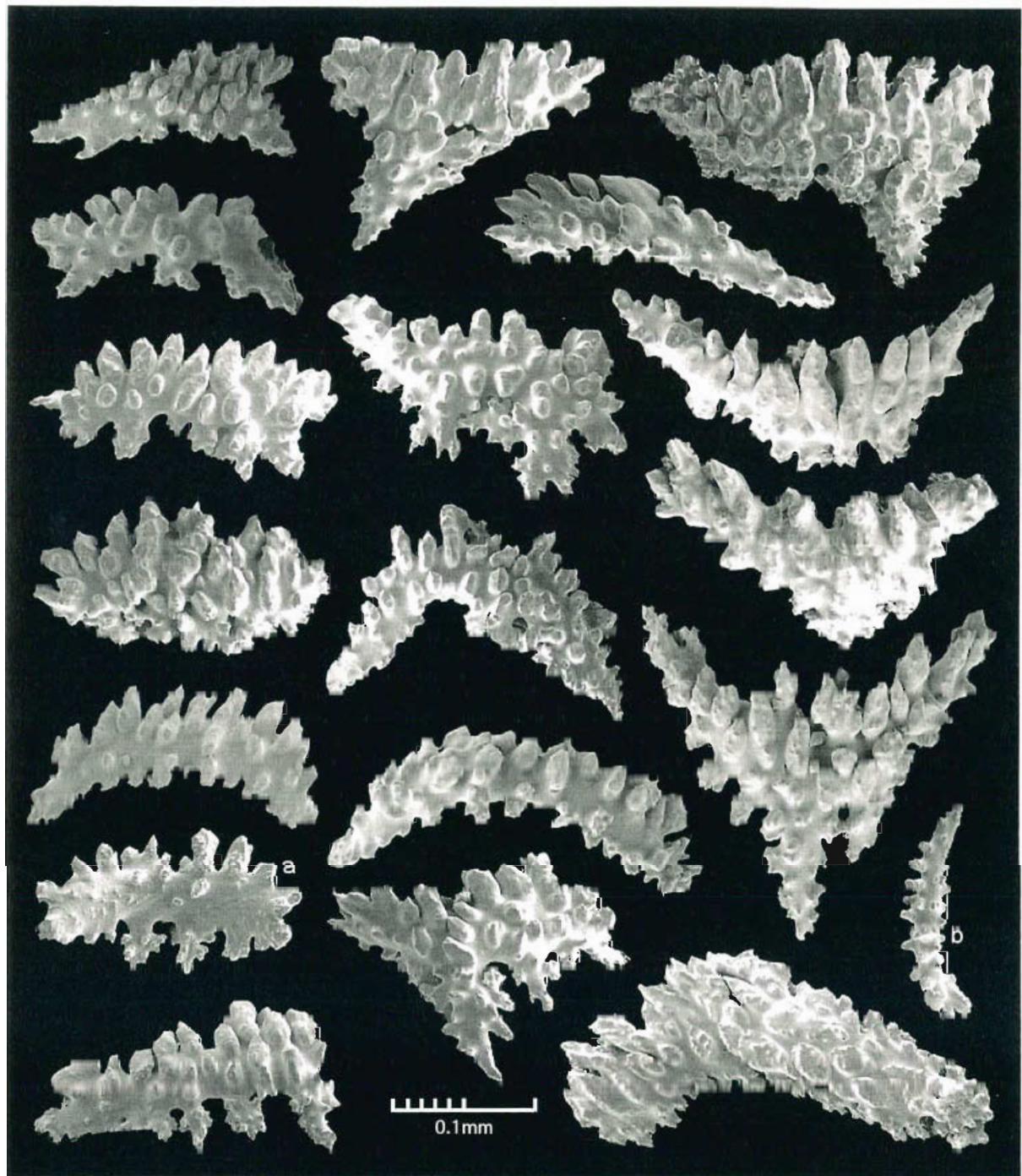


Fig. 30. *Tethritis suzanneae* n.sp., holotype, sclerites: Polyp body.

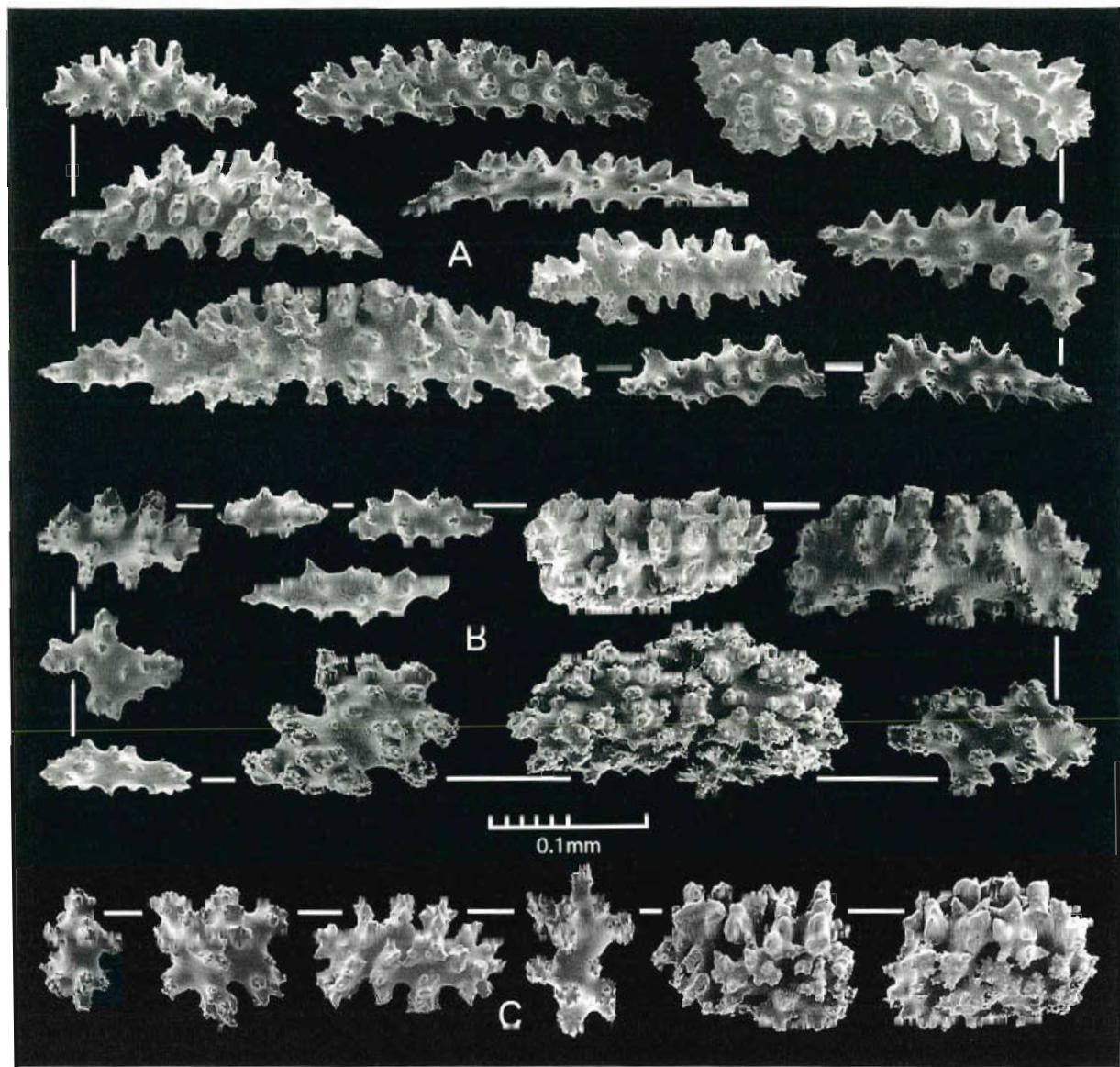


Fig. 31. *Tethrisis suzanneae* n.sp., holotype, sclerites: A. Twig coenenchyme; B. Main branch coenenchyme; C. Stem coenenchyme.

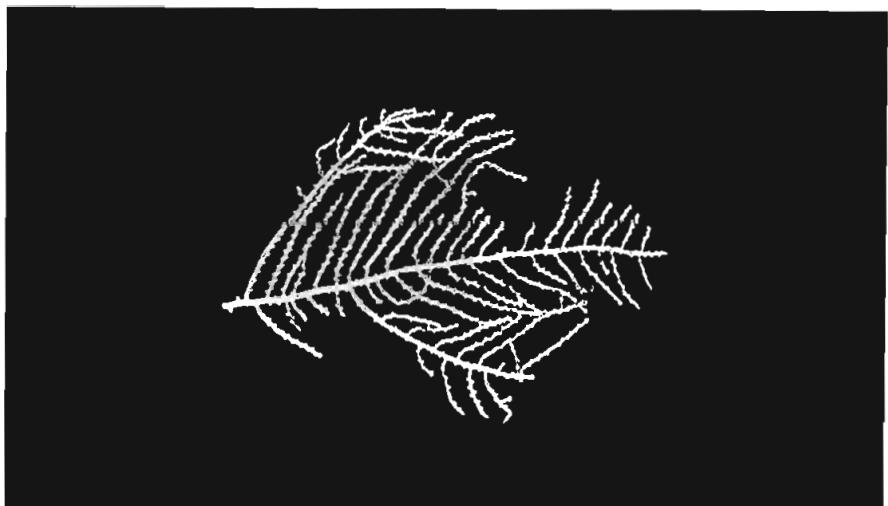


Fig. 32. *Paracanthonisis richerdeforgesii* (Bayer & Stefani, 1987), holotype, natural size.

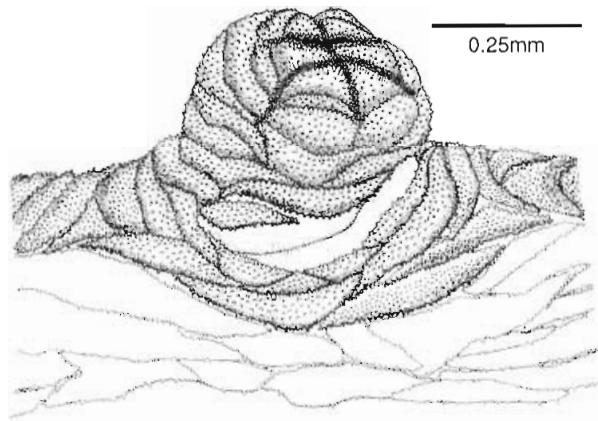


Fig. 33. *Paracanthonisis richerdeforgesii* (Bayer & Stefani, 1987), holotype: Polyp showing naked adaxial neck region.

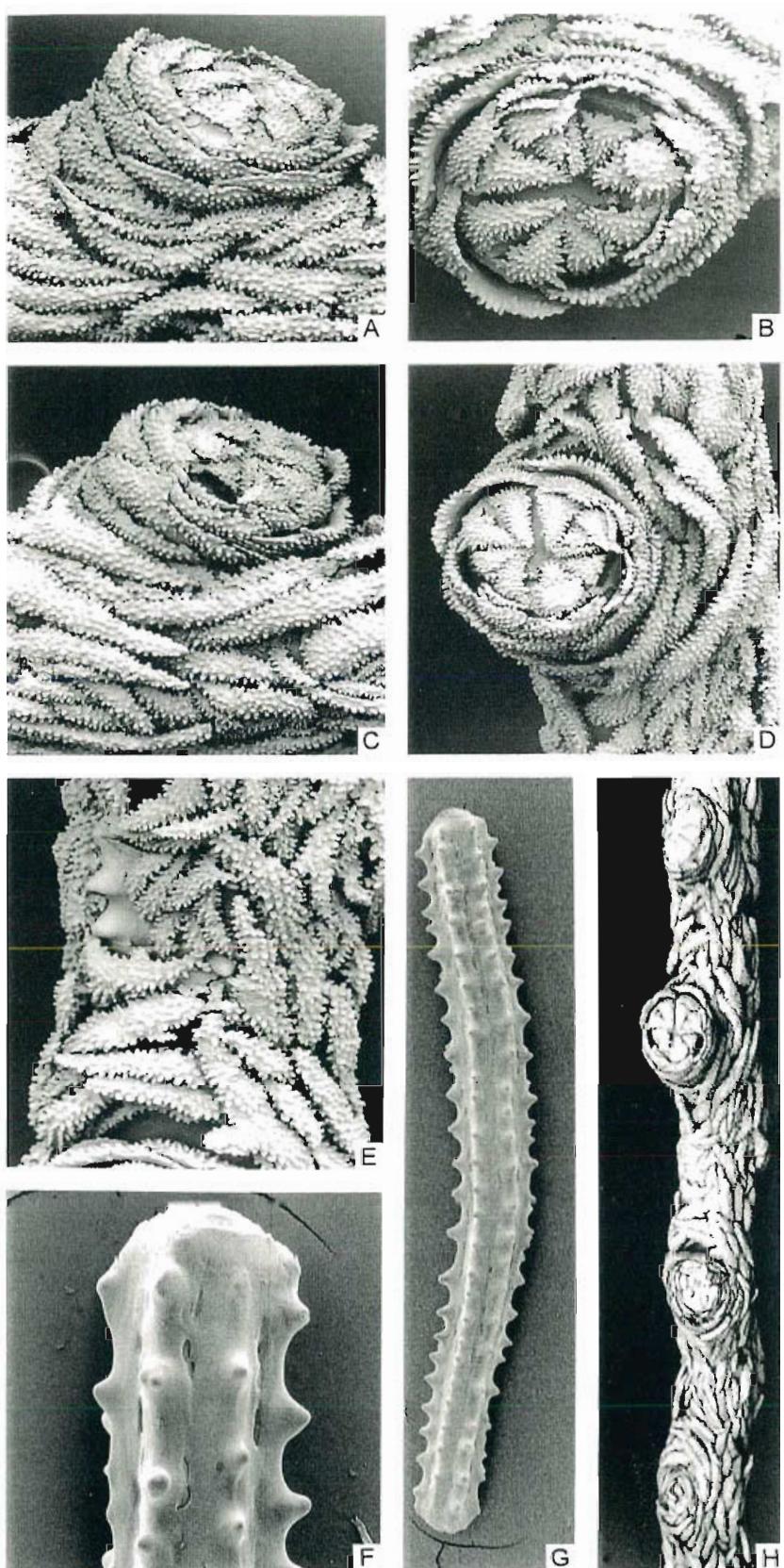


Fig. 34. *Paracanthonisis richerdeforgesii* (Bayer & Stefani, 1987), holotype: A-D. Polyps; E. Coenenchyme; F-G. Axial internodes; H. Twig fragment.

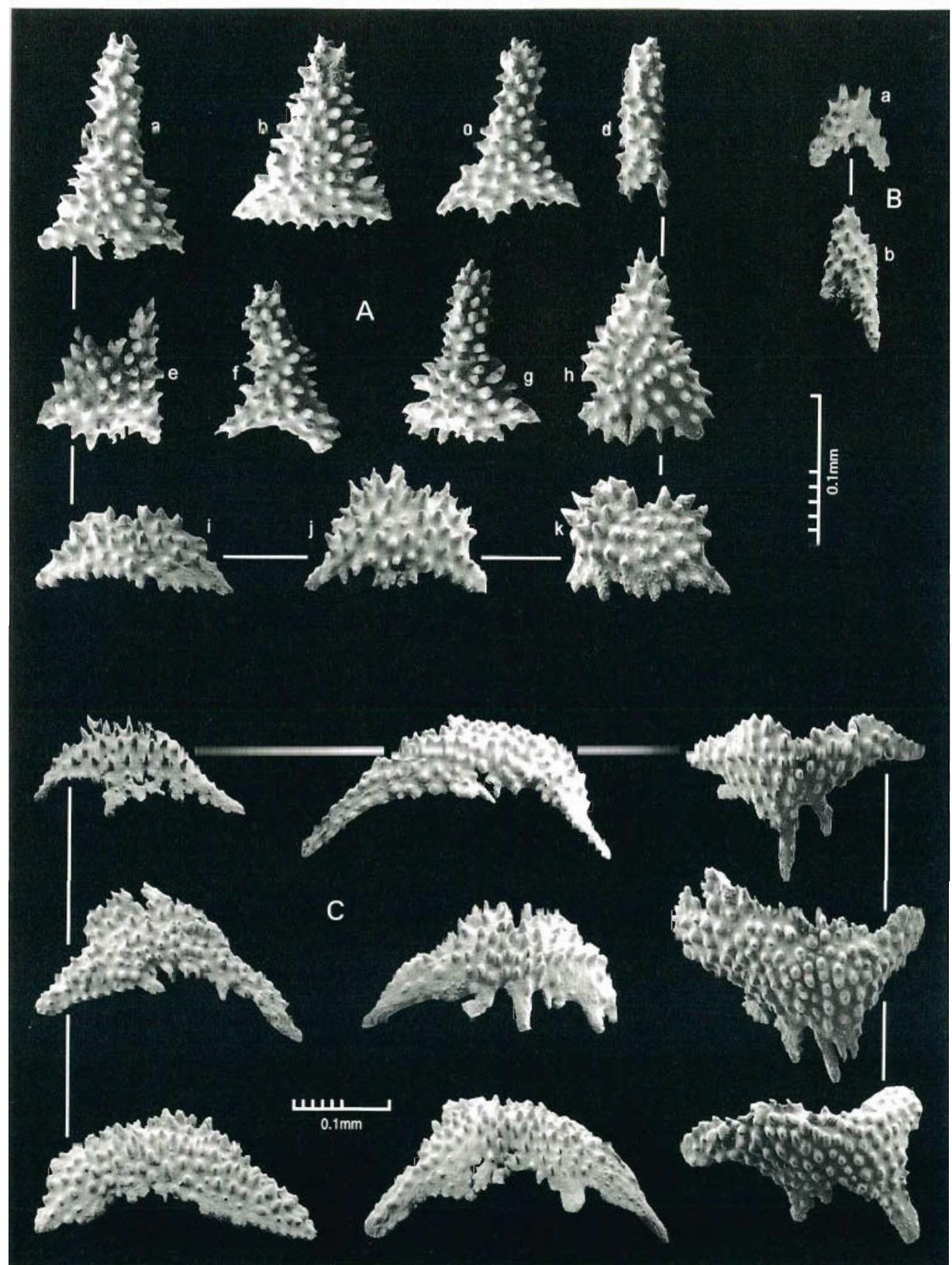


Fig. 35. *Paracanthoisis richerdeforgesii* (Bayer & Stefani, 1987), holotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp head.

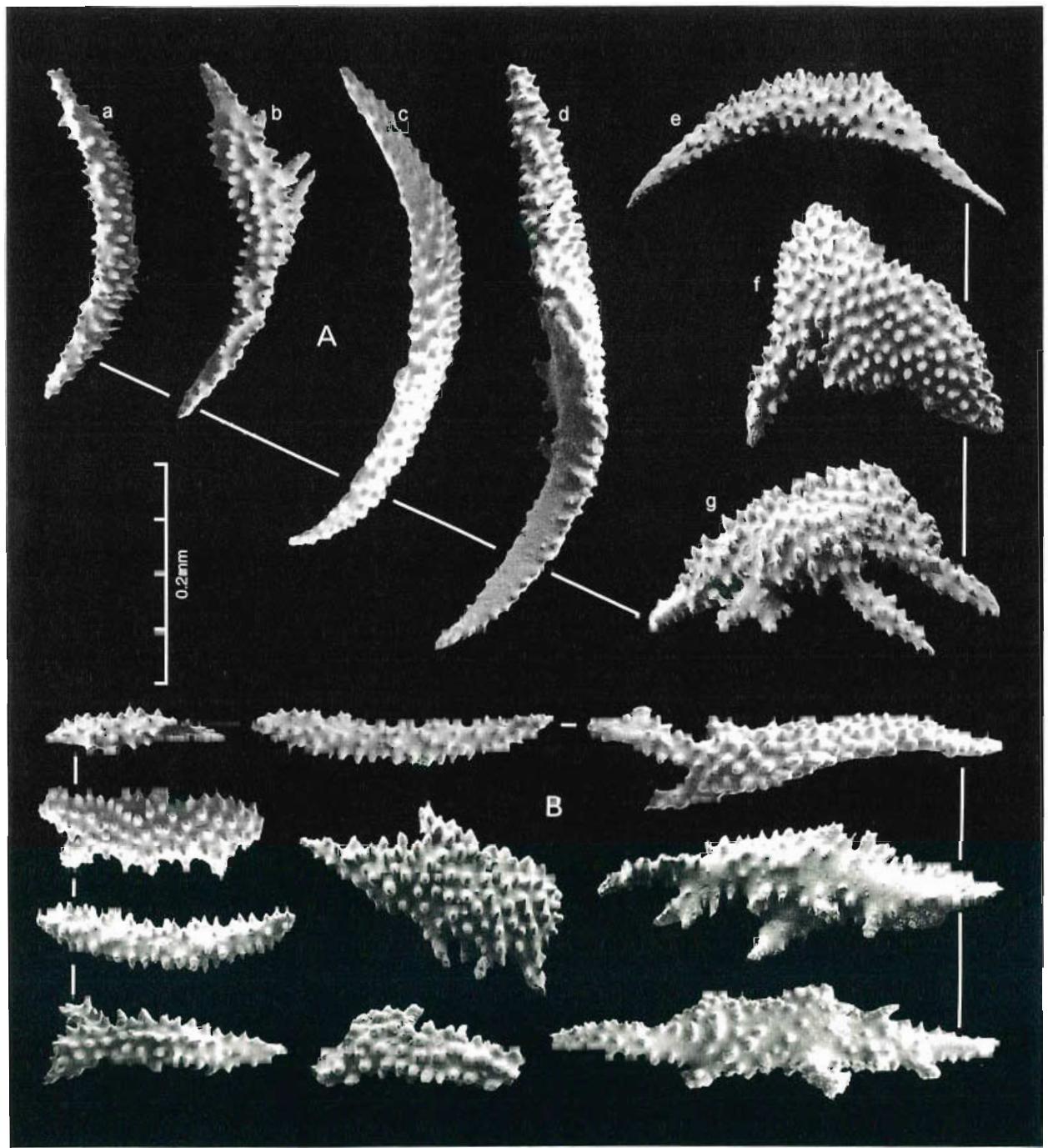


Fig. 36. *Paracanthoisis richerdeforgesii* (Bayer & Stefani, 1987), holotype, sclerites: A. Polyp base; B. Branch cocnenchyme.

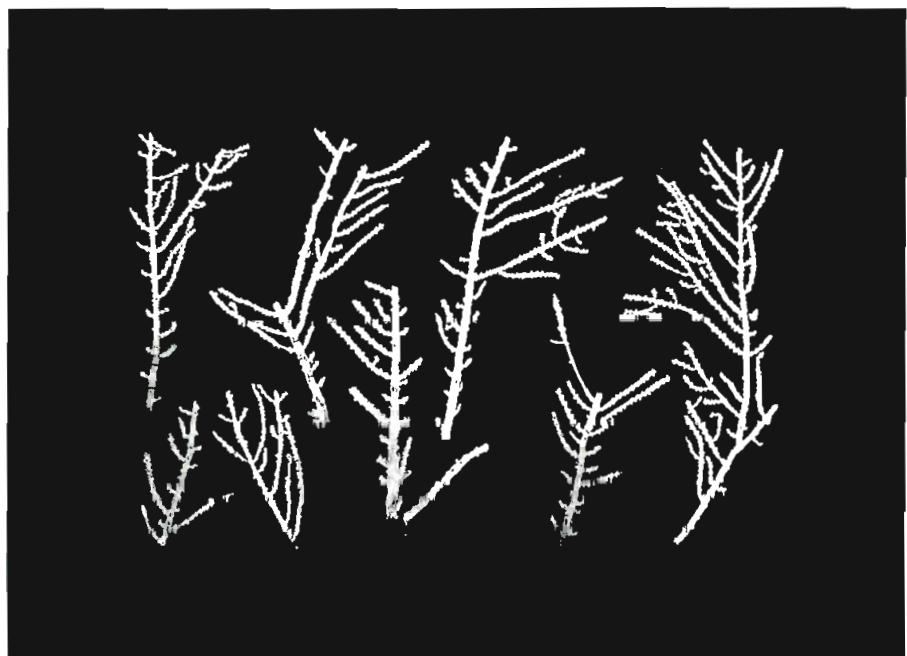


Fig. 37. *Paracanthonisis simplex* (Tixier-Durivault, 1970), lectotype, natural size.

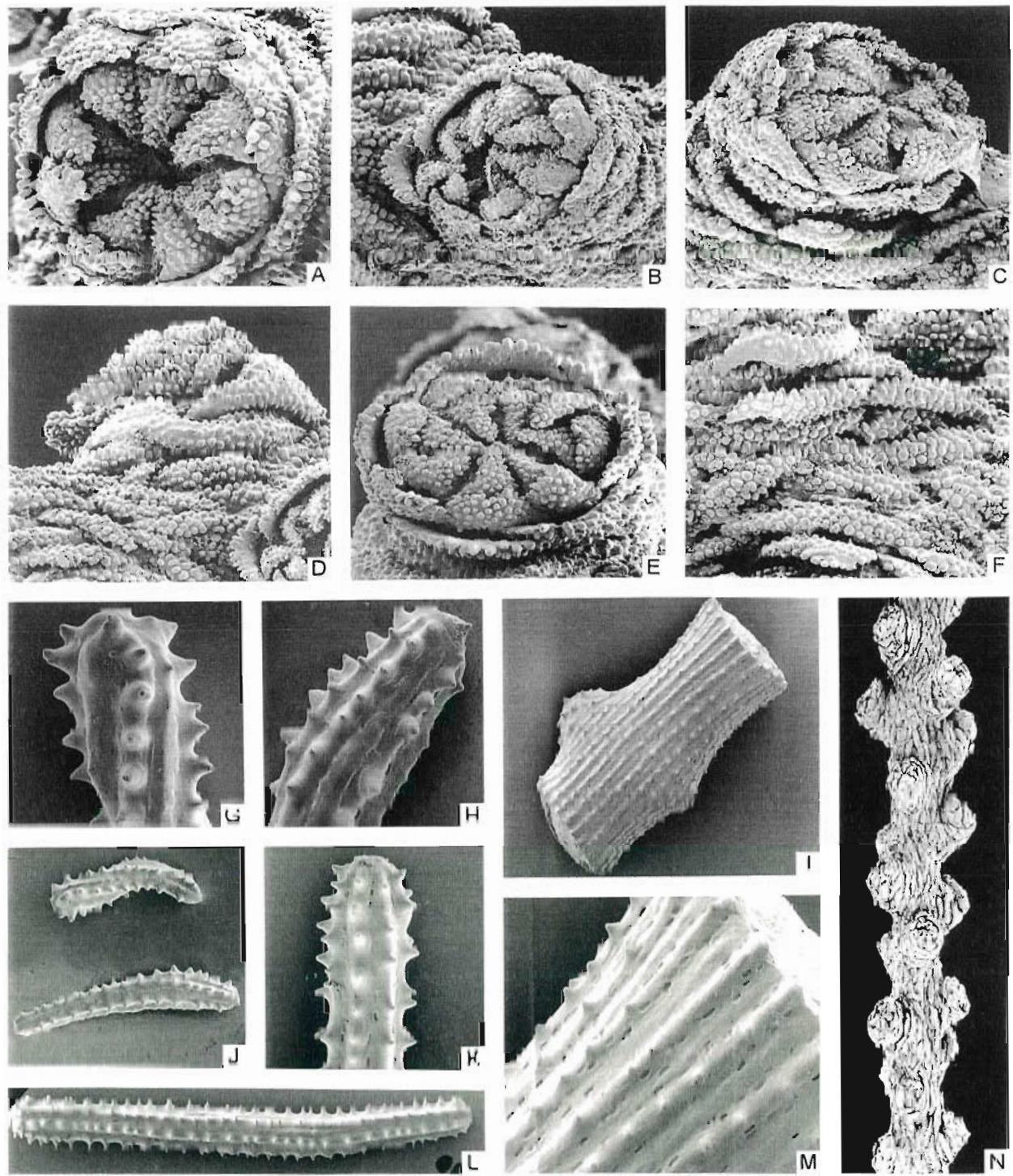


Fig. 38. *Paracanthonisis simplex* (Tixier-Durivault, 1970), lectotype: A-E. Polyps; F. Coenenchyme; G-M. Axial internodes; N. Twig fragment.

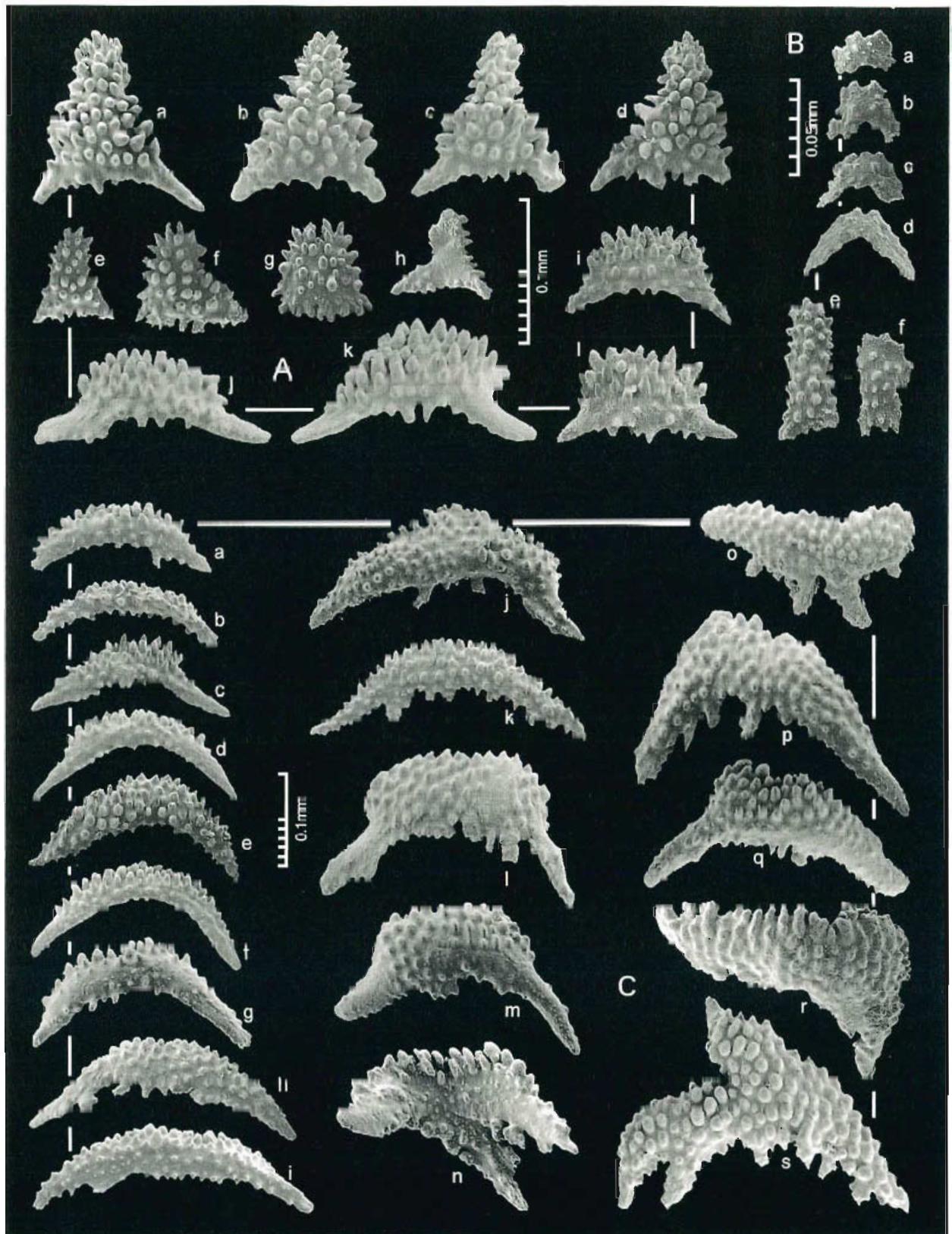


Fig. 39. *Paracanthonoisis simplex* (Tixier-Durivault, 1970), lectotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

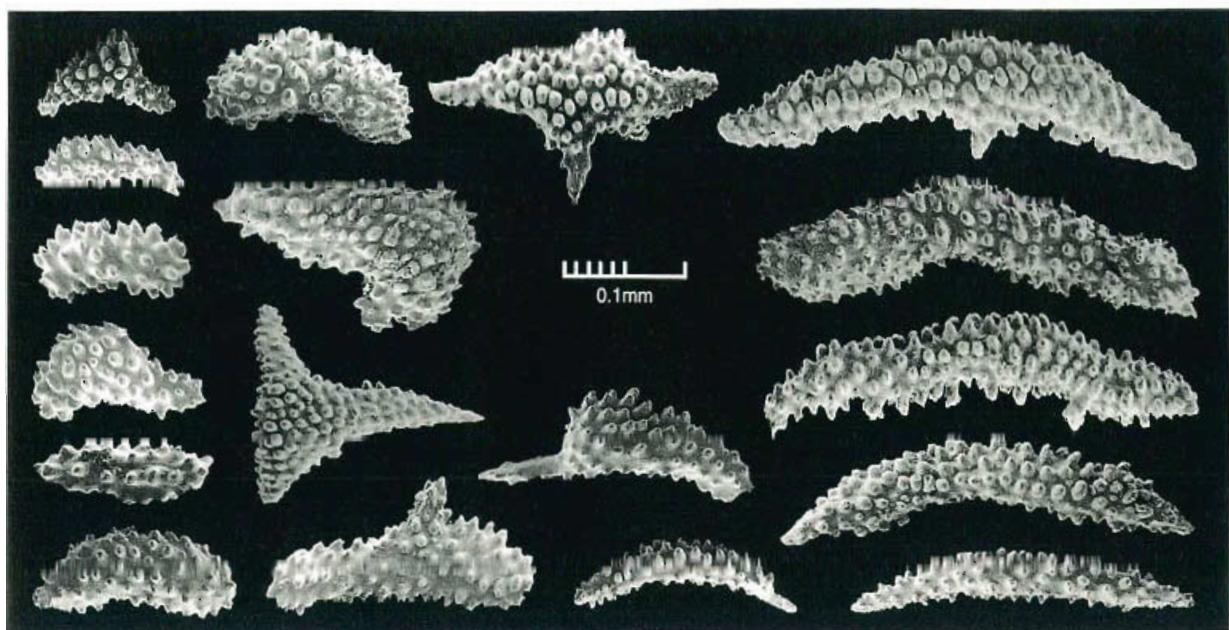


Fig. 40. *Paracanthonisis simplex* (Tixier-Durivault, 1970), lectotype, sclerites: Branch coenenchyme.

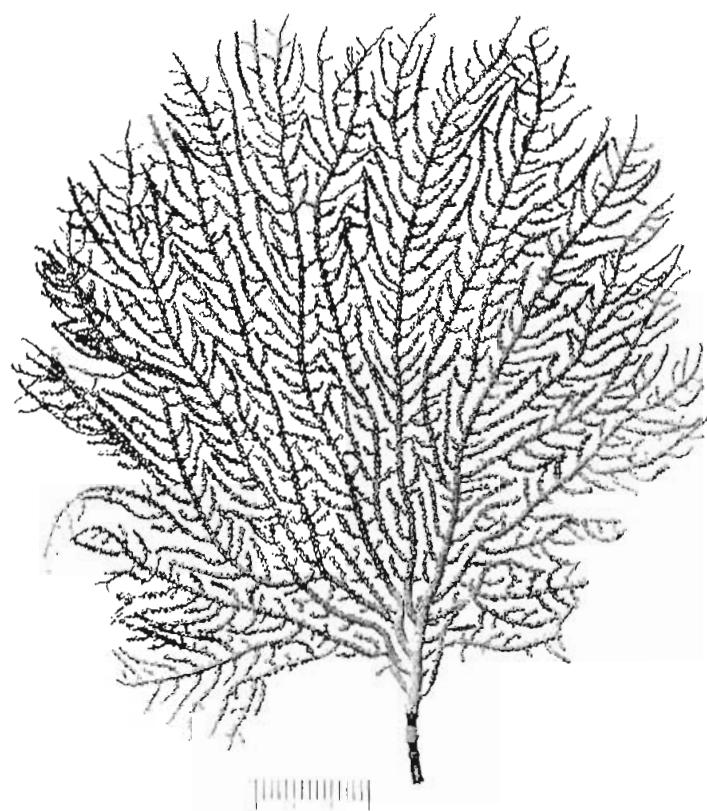


Fig. 41. *Acanthoisis flabellum* Wright & Studer, 1889, holotype, natural size.

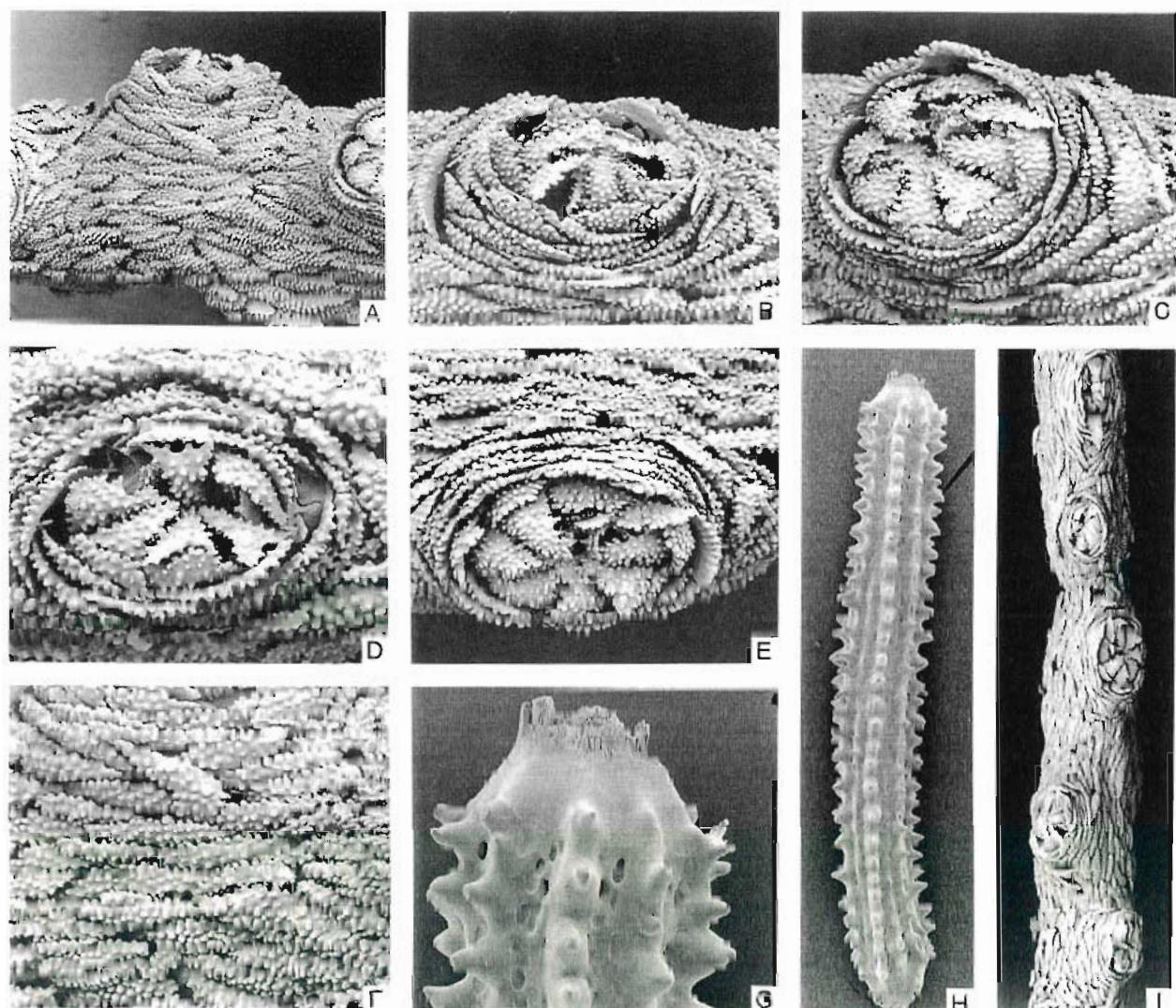


Fig. 42. *Acanthoisis flabellum* Wright & Studer, 1889, holotype: A-E. Polyps; F. Coenenchyme; G-H. Axial internodes; I. Twig fragment.

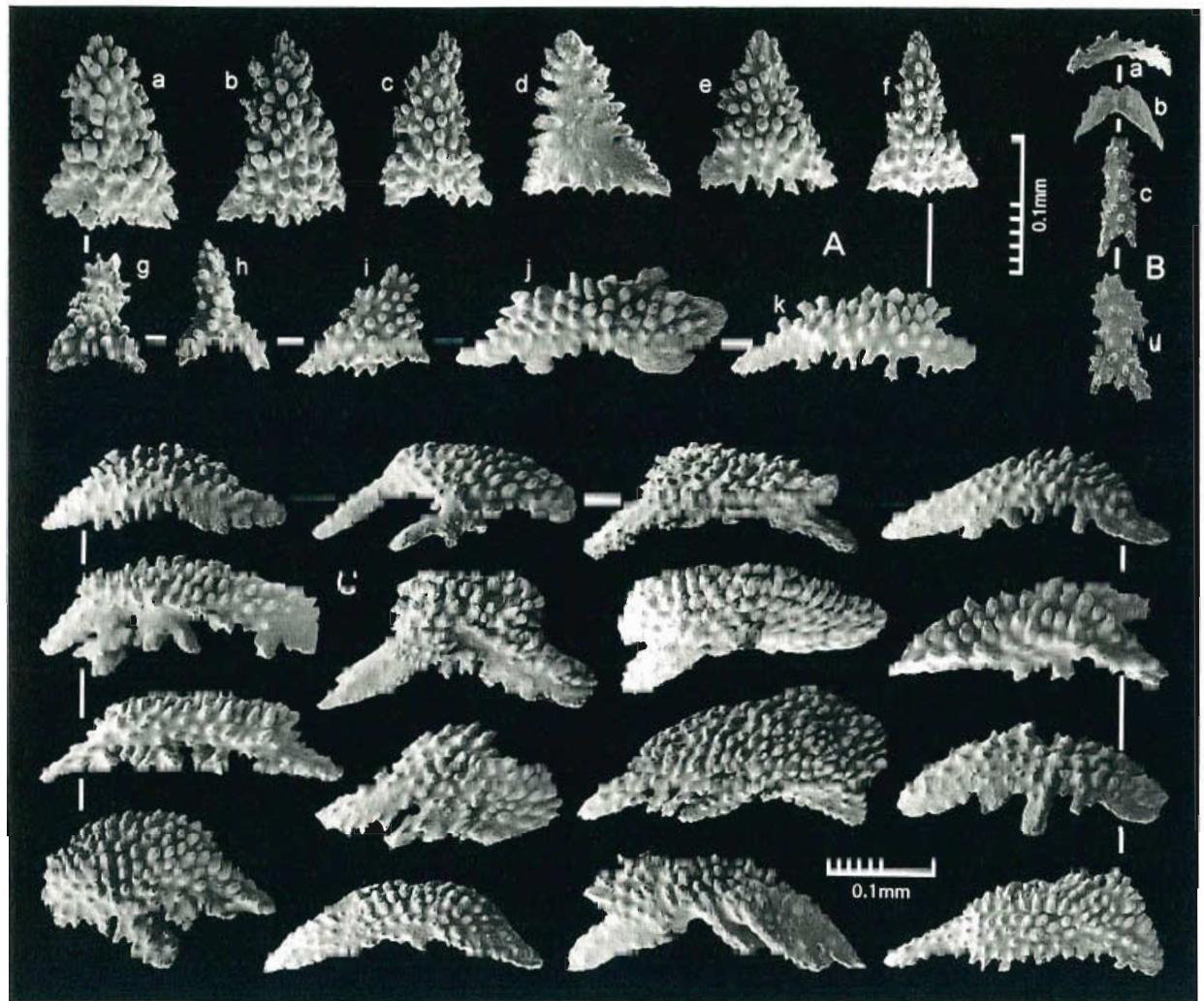


Fig. 43. *Acanthoisis flabellum* Wright & Studer, 1889, holotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

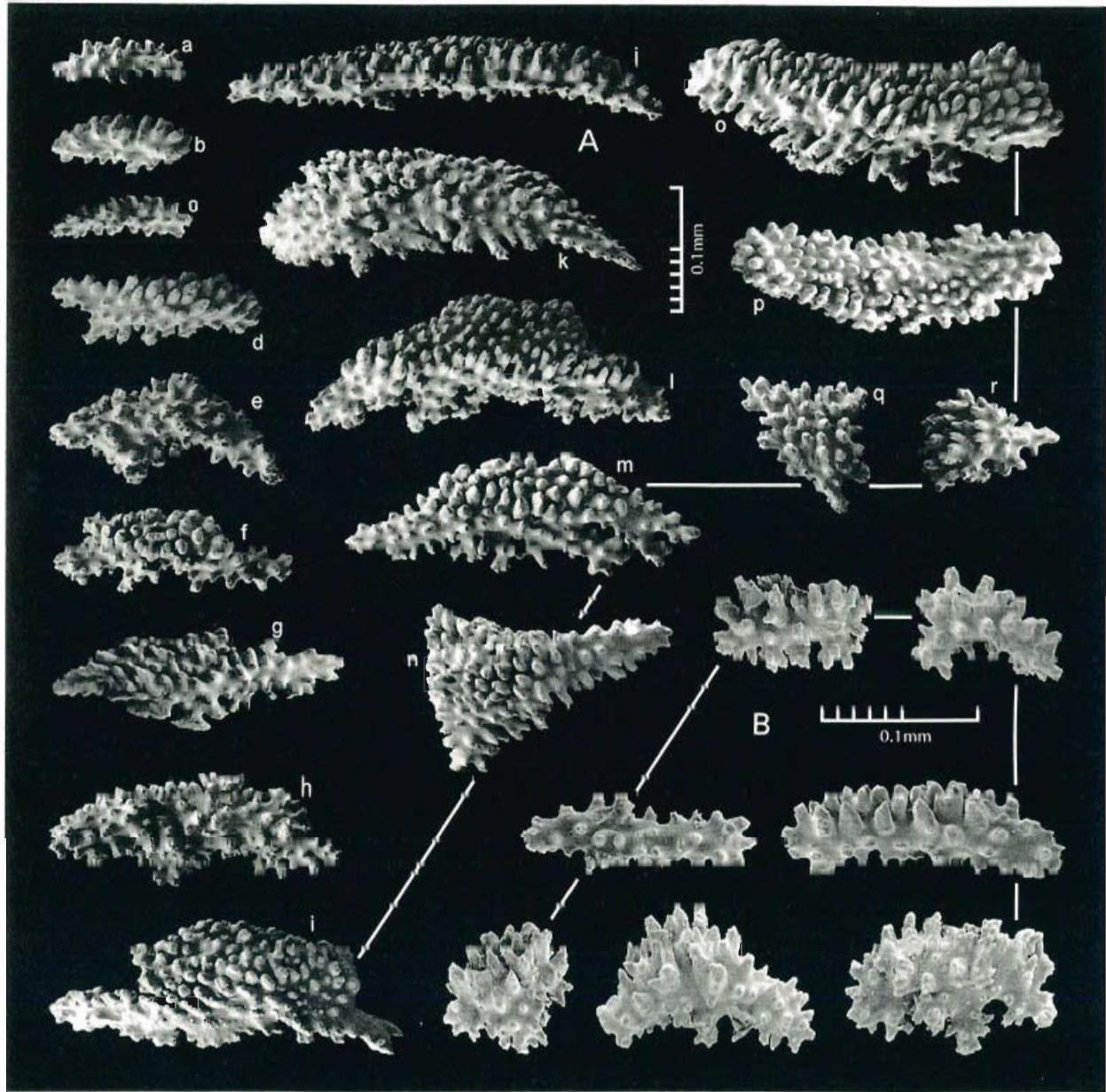


Fig. 44. *Acanthoisis flabellum* Wright & Studer, 1889, holotype, sclerites: A. Branch coenenchyme; B. Stem coenenchyme.

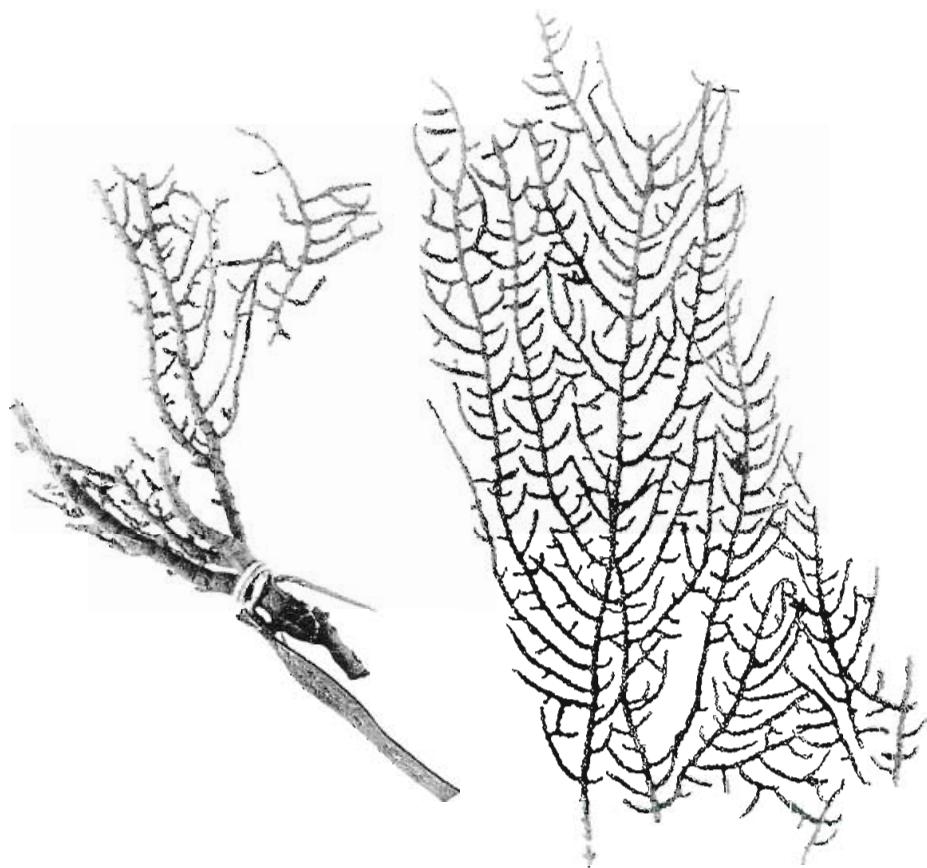


Fig. 45. *Acanthoisis flabellum* Wright & Studer, 1889, AM G12154, natural size.

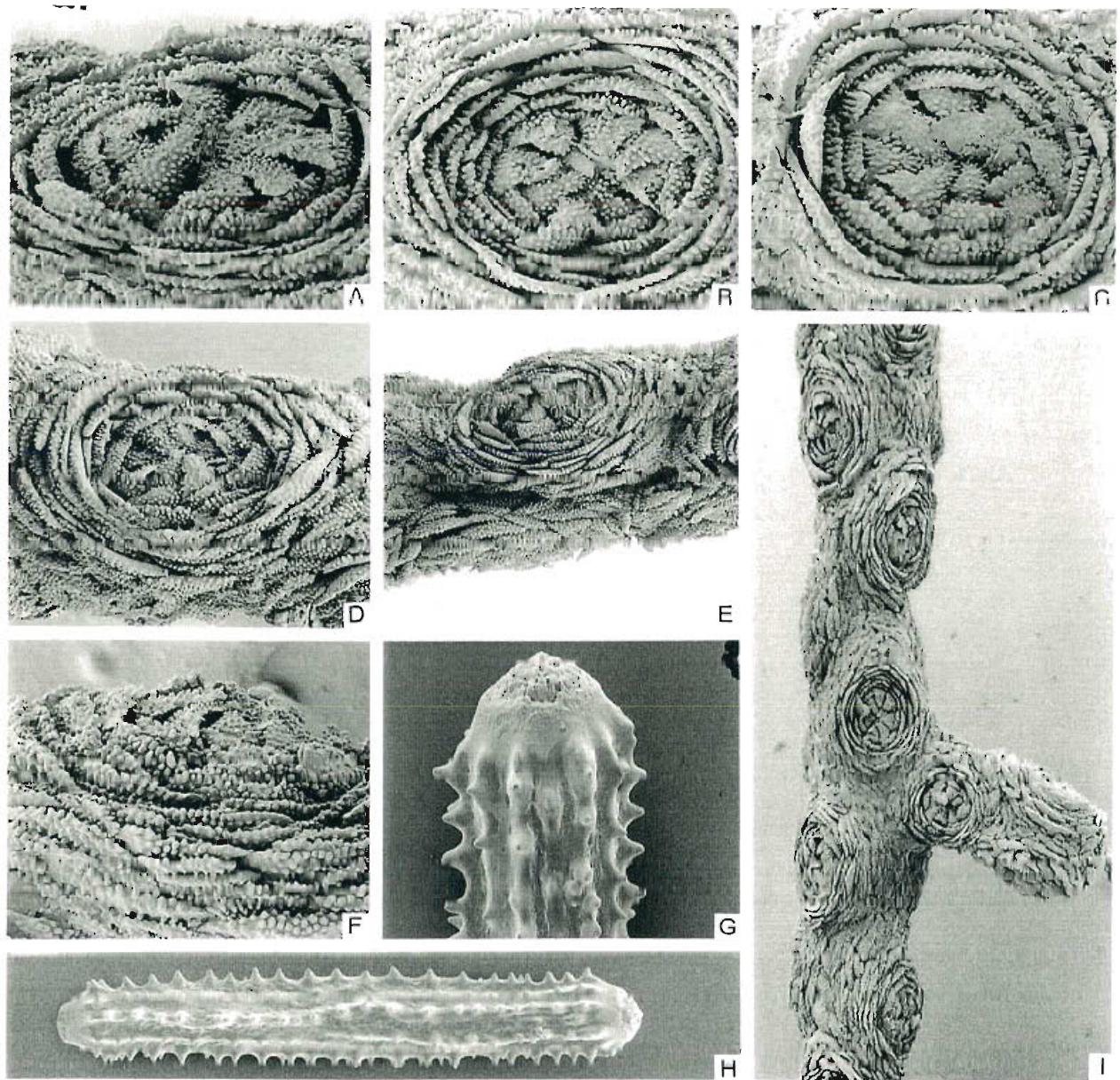


Fig. 46. *Acanthoisis flabellum* Wright & Studer, 1889, AM G12154: A-F. Polyps; G-H. Axial internodes; I. Twig fragment.

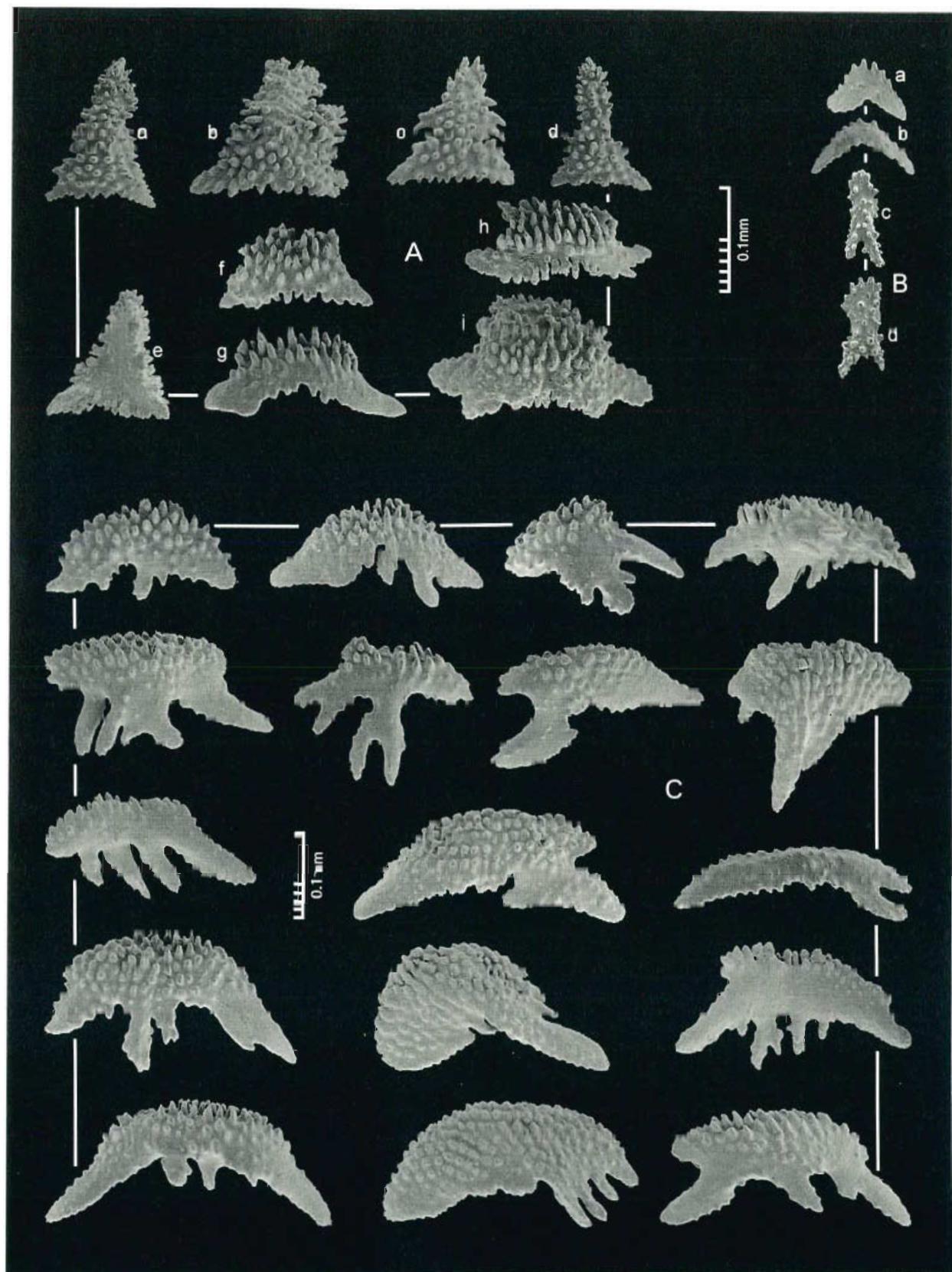


Fig. 47. *Acanthoisis flabellum* Wright & Studer, 1889, AM G12154, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

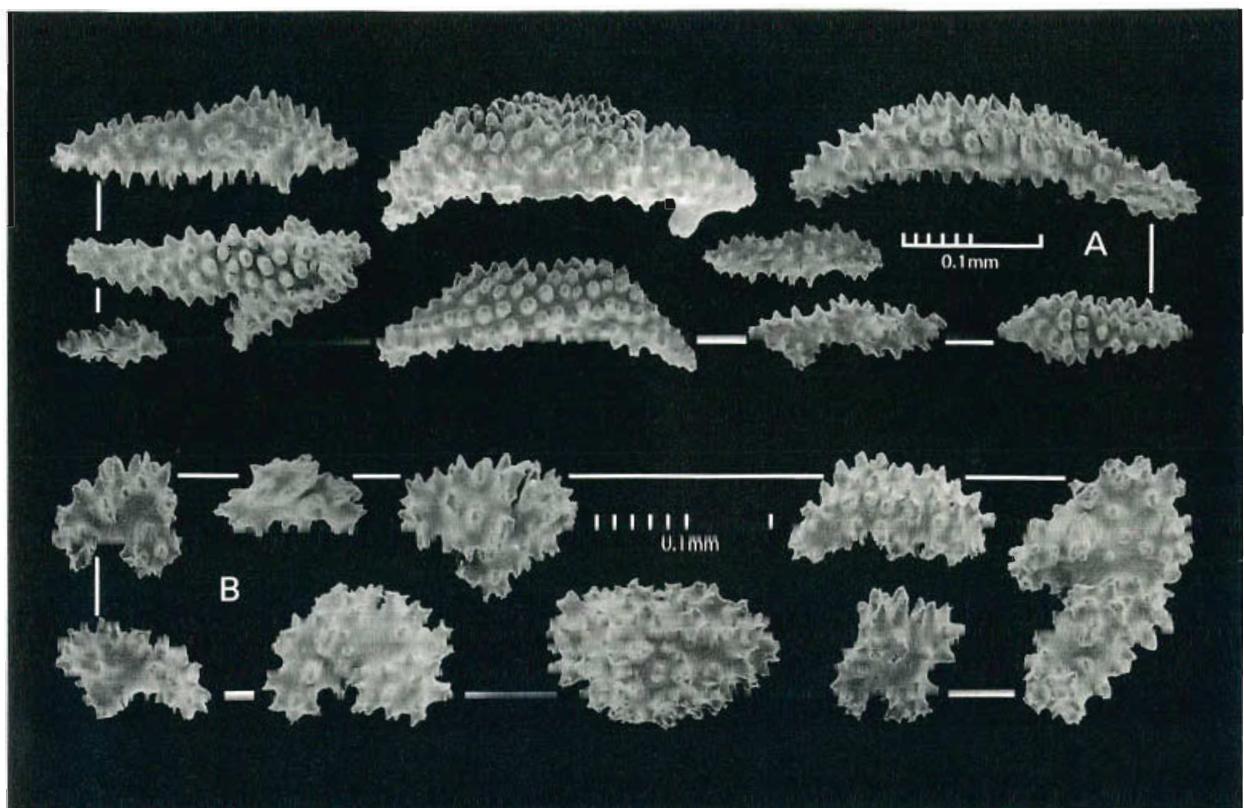


Fig. 48. *Acanthoisis flabellum* Wright & Studer, 1889, AM G12154, sclerites: A. Branch coenenchyme; B. Lower main branch coenenchyme.

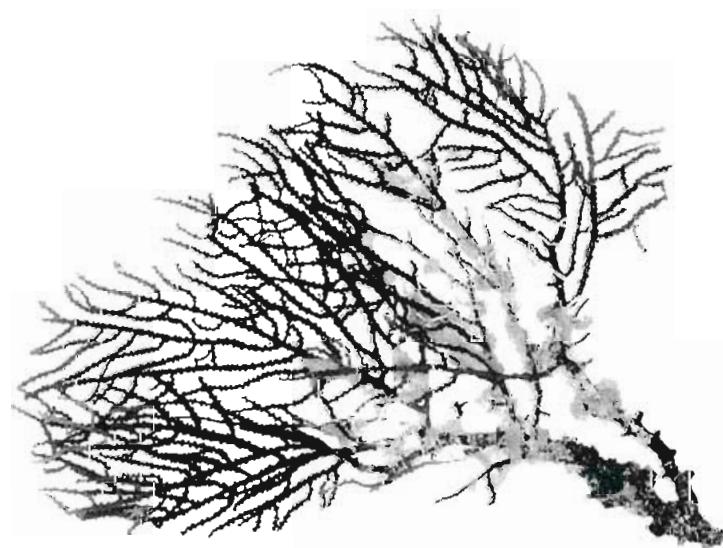


Fig. 49. *Acanthoisis dhondtae* Bayer & Stefani, 1987, holotype, natural size.

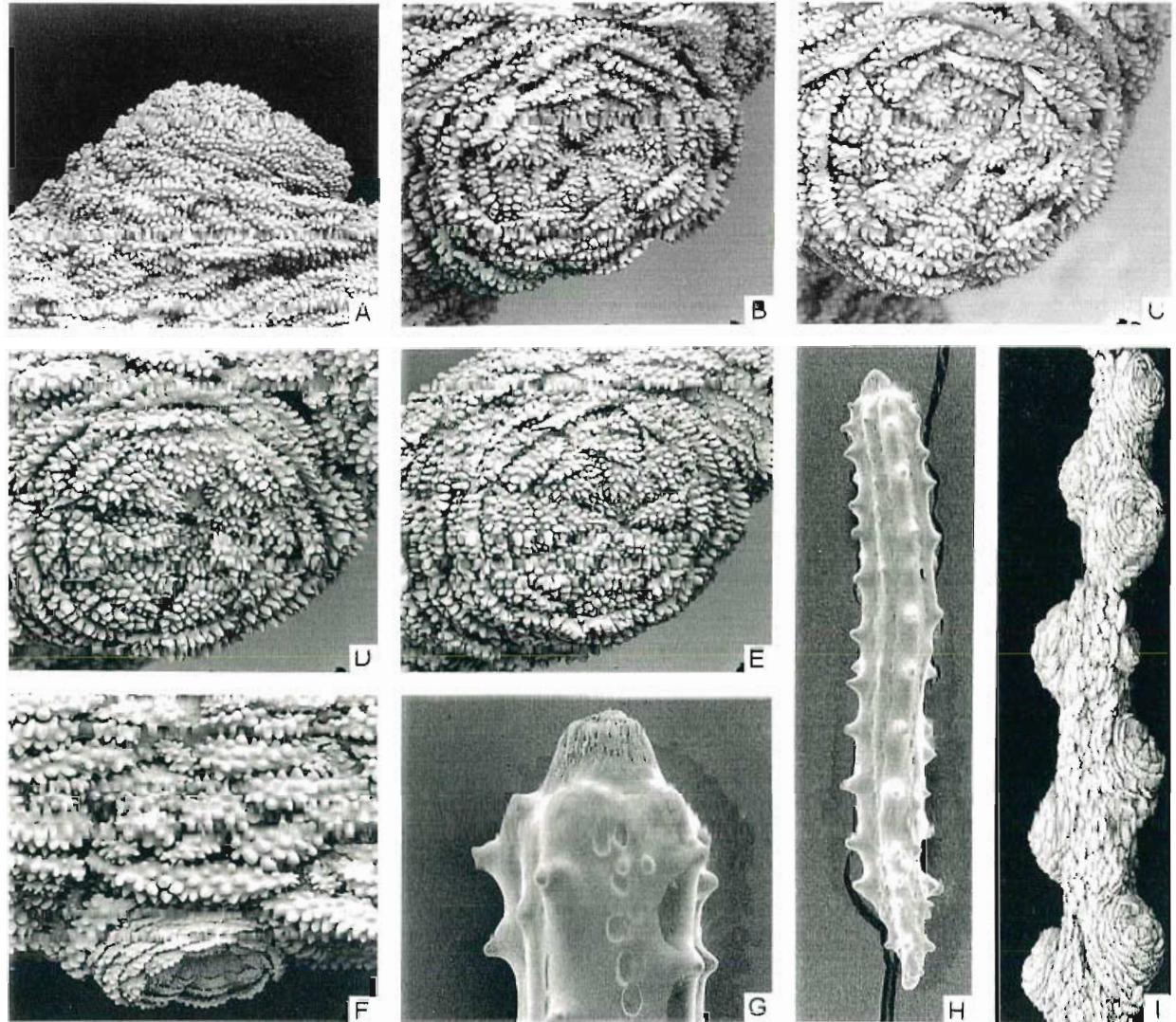


Fig. 50. *Acanthoisis d'hondtae* Bayer & Stefani, 1987, holotype: A-E. Polyps; F. Coenenchyme and juvenile polyp; G-H. Axial internodes; I. Twig fragment.

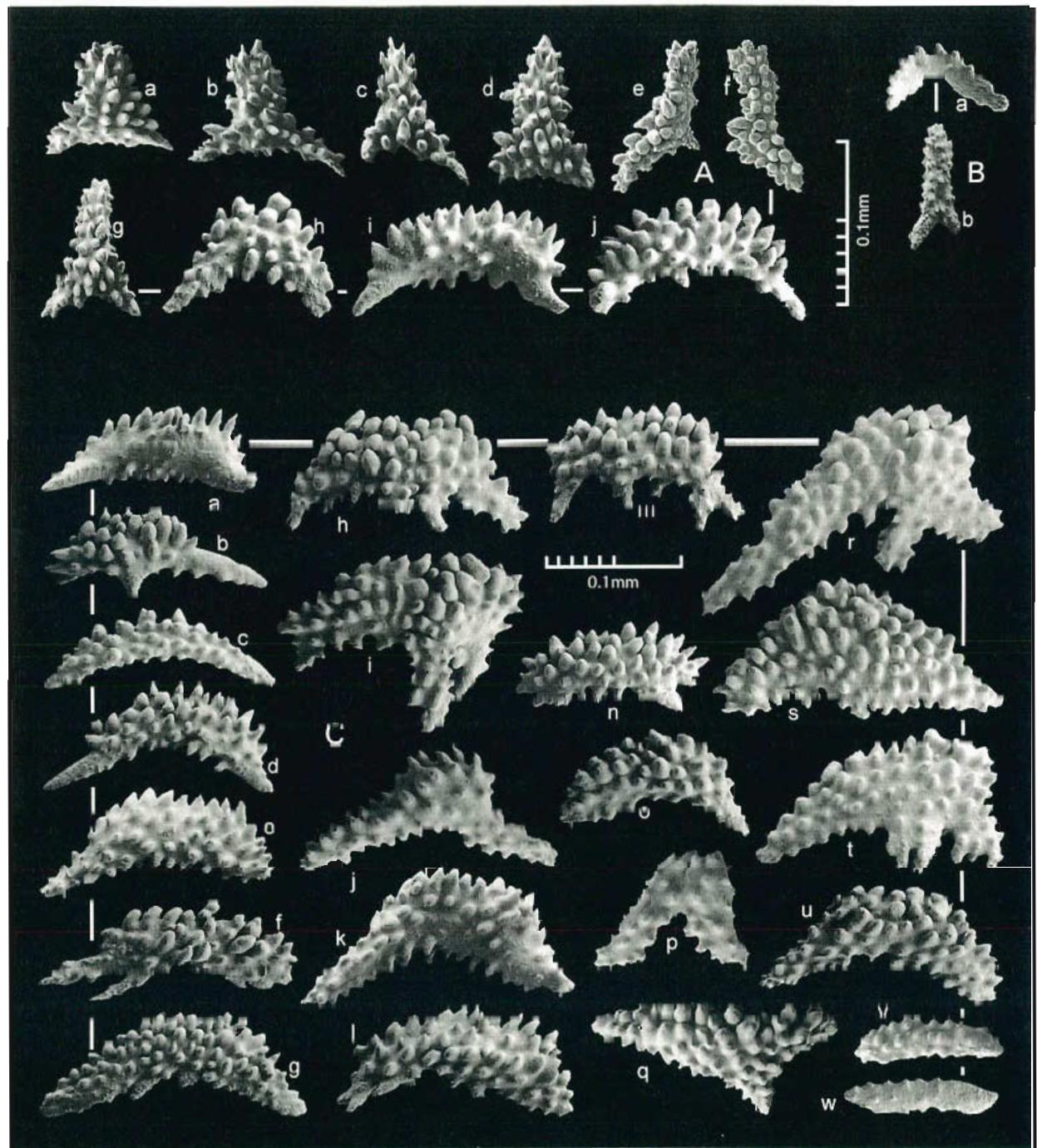


Fig. 51. *Acanthoisis dhondtae* Bayer & Stefani, 1987, holotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

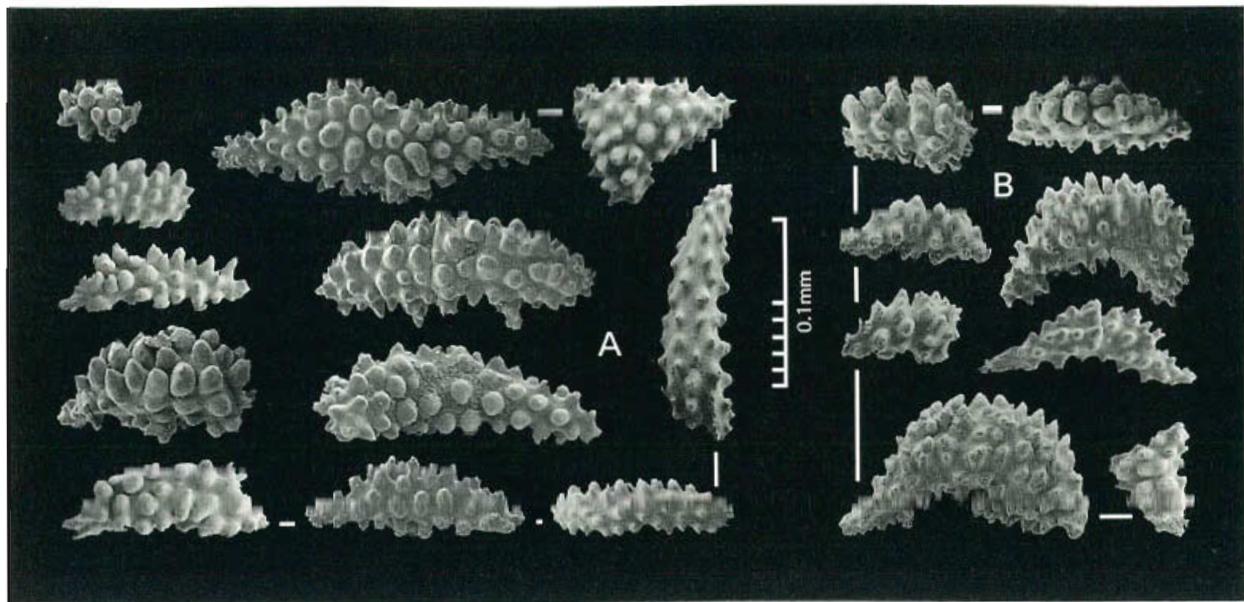


Fig. 52. *Acanthoisis dhondtae* Bayer & Stefani, 1987, holotype, sclerites: A. Principal branch and pinna coenenchyme; B. Stem coenenchyme.

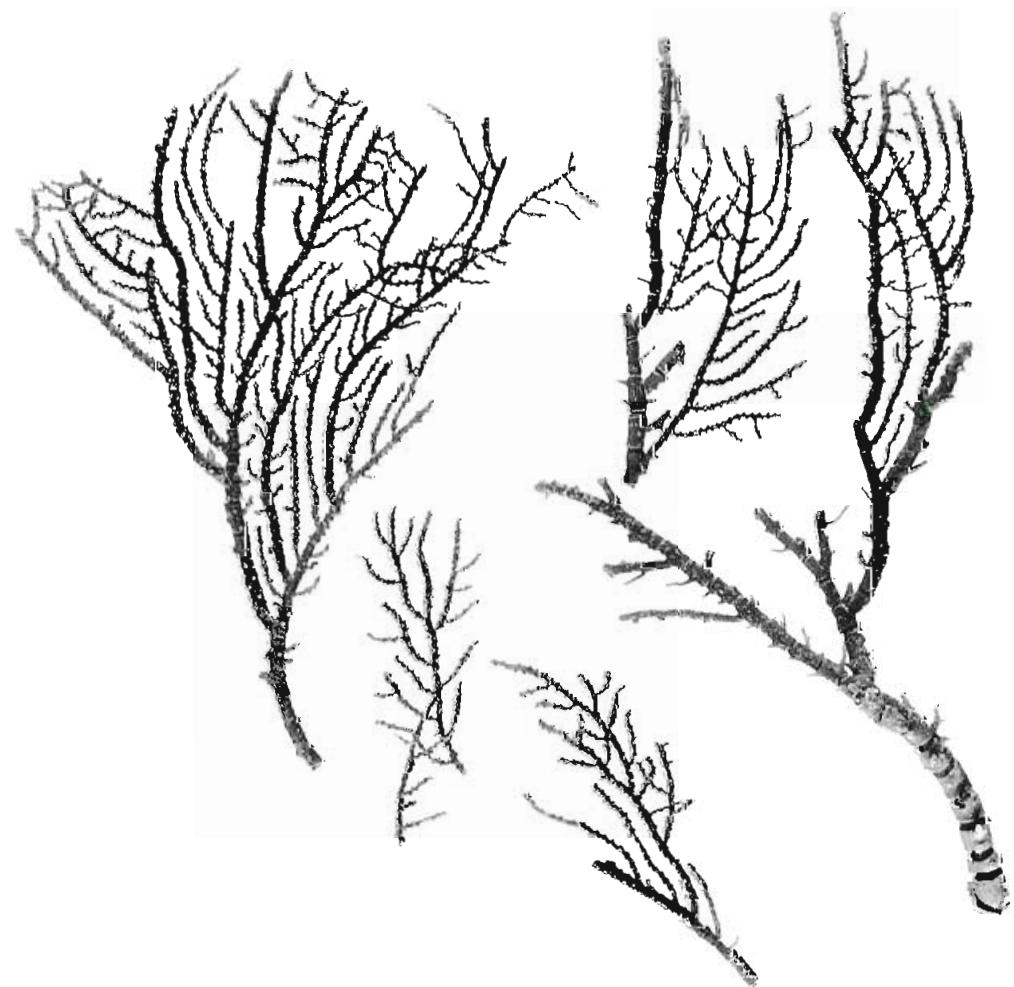


Fig. 53. *Acanthoisis wrastica* n.sp., holotype, natural size.

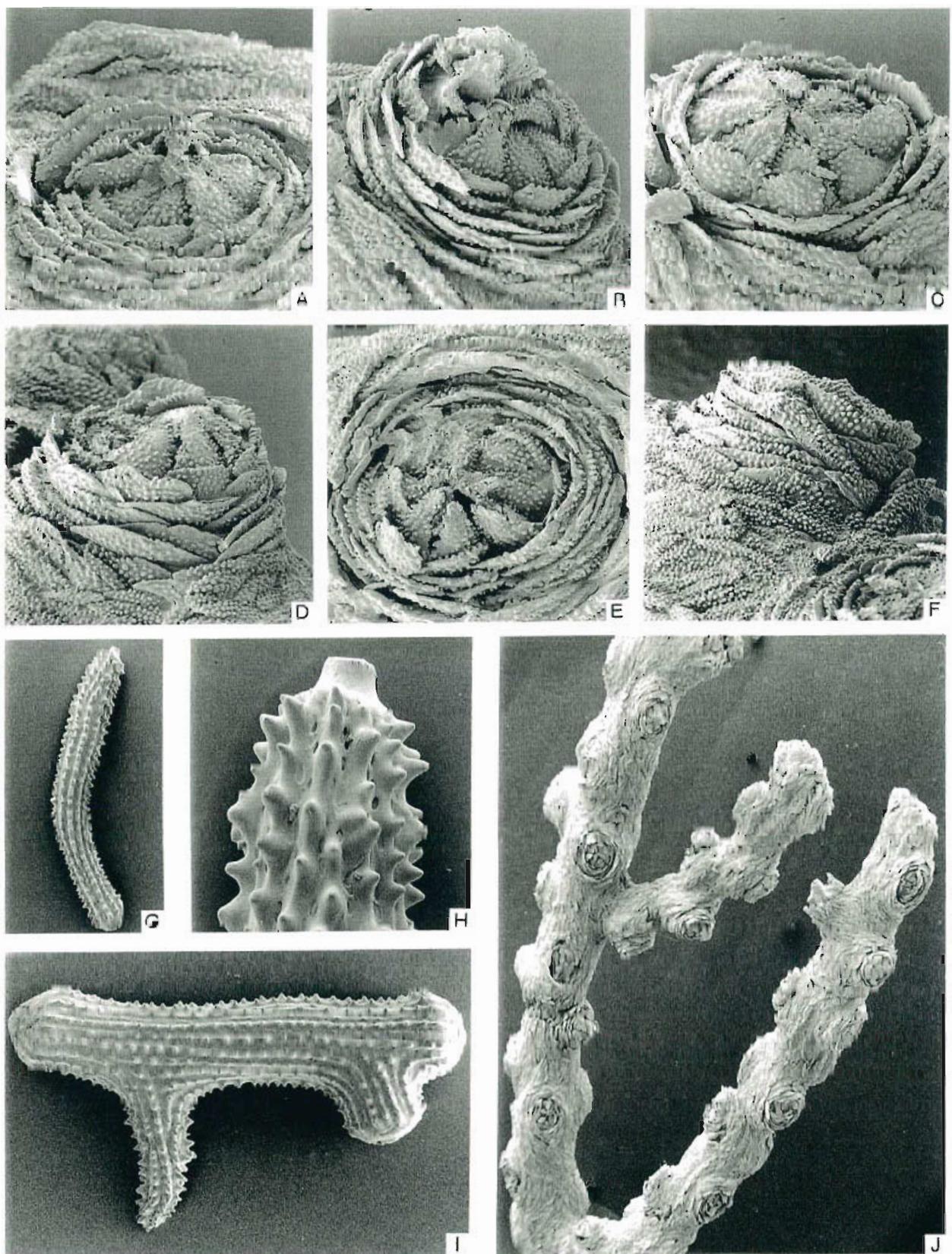


Fig. 54. *Acanthoisis wrastica* n.sp., holotype: A-F. Polyps; G-I. Axial internodes; J. Twig fragment.

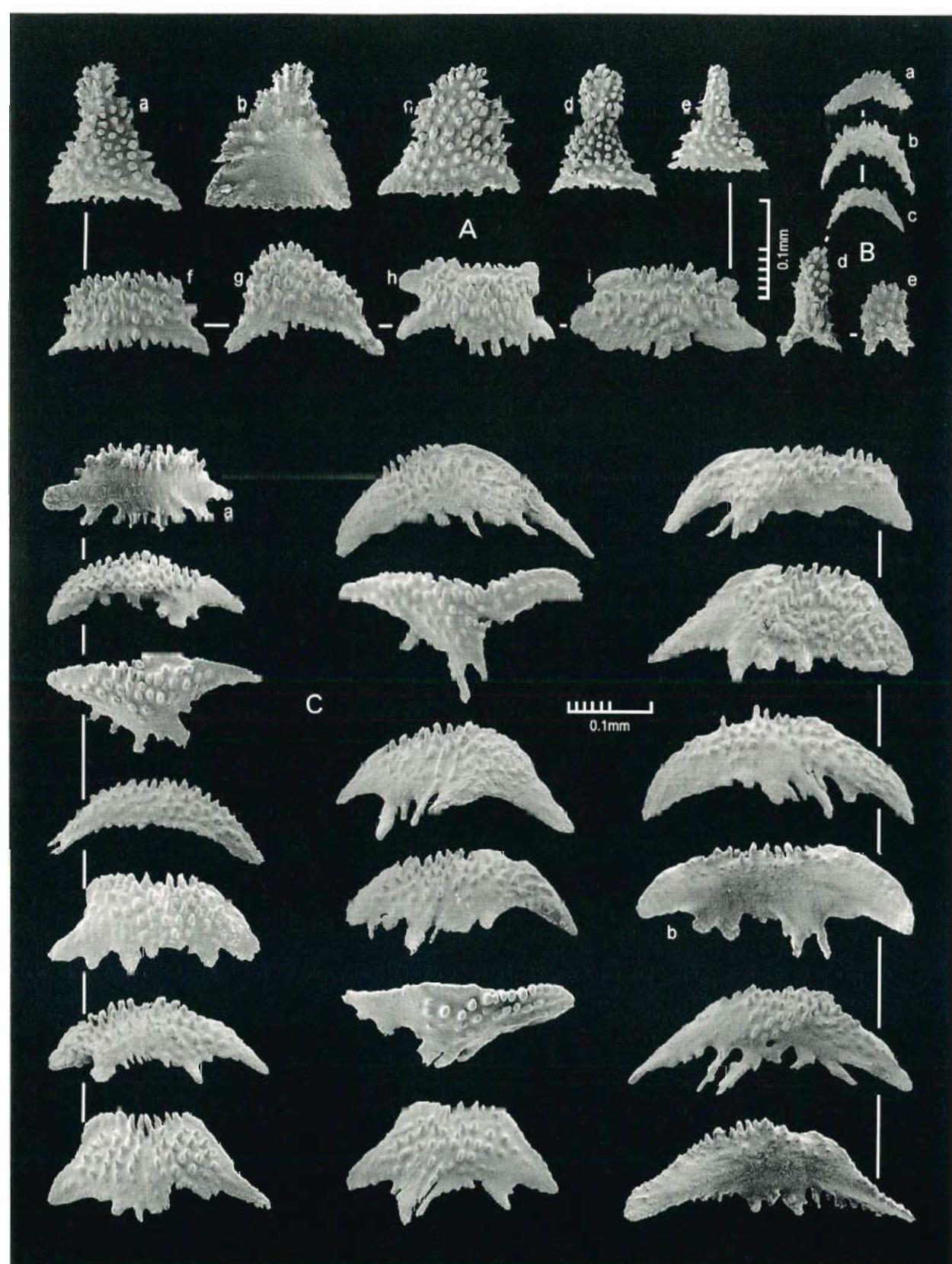


Fig. 55. *Acanthoisis wrastica* n.sp., holotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

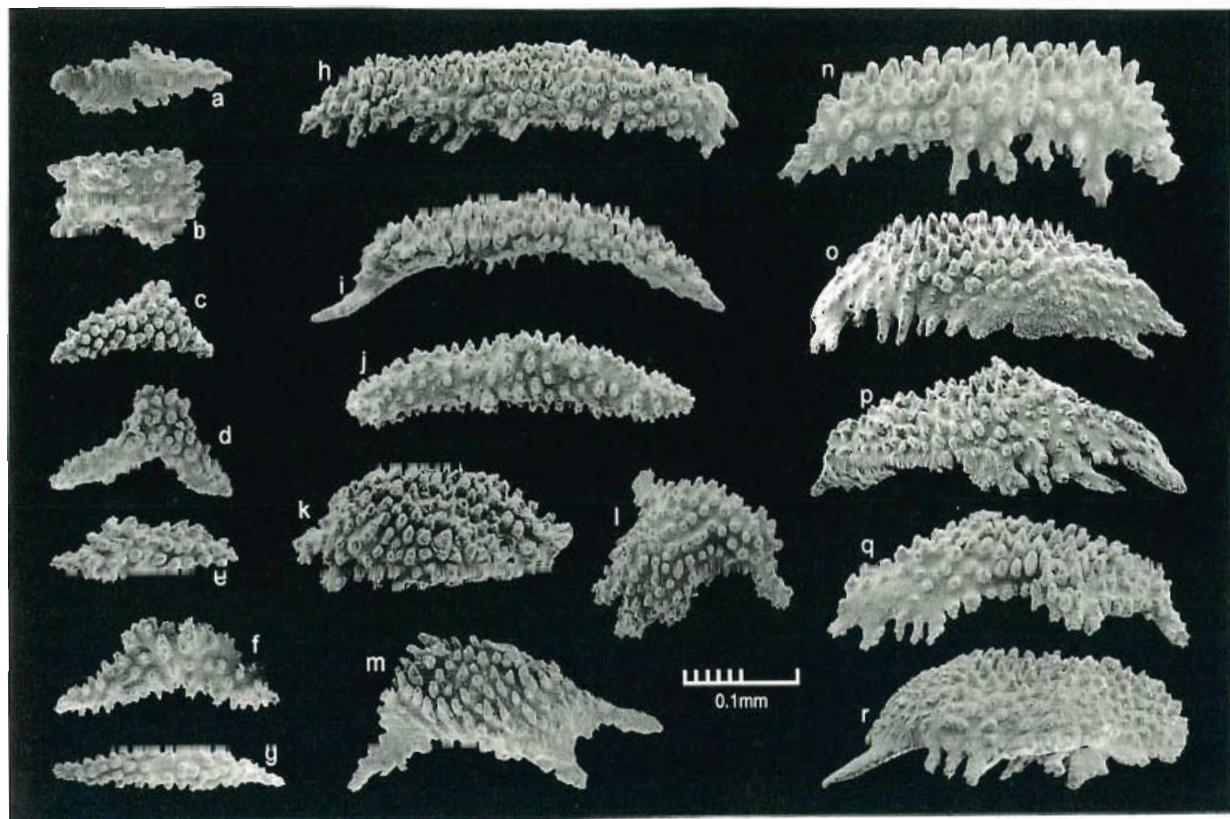


Fig. 56. *Acanthoisis wrastica* n.sp., holotype, sclerites: Branch coenenchyme.



Fig. 57. *Acanthoisis myzourida* n.sp.: A. Holotype; B. Paratype, AM G15598. Both natural size.

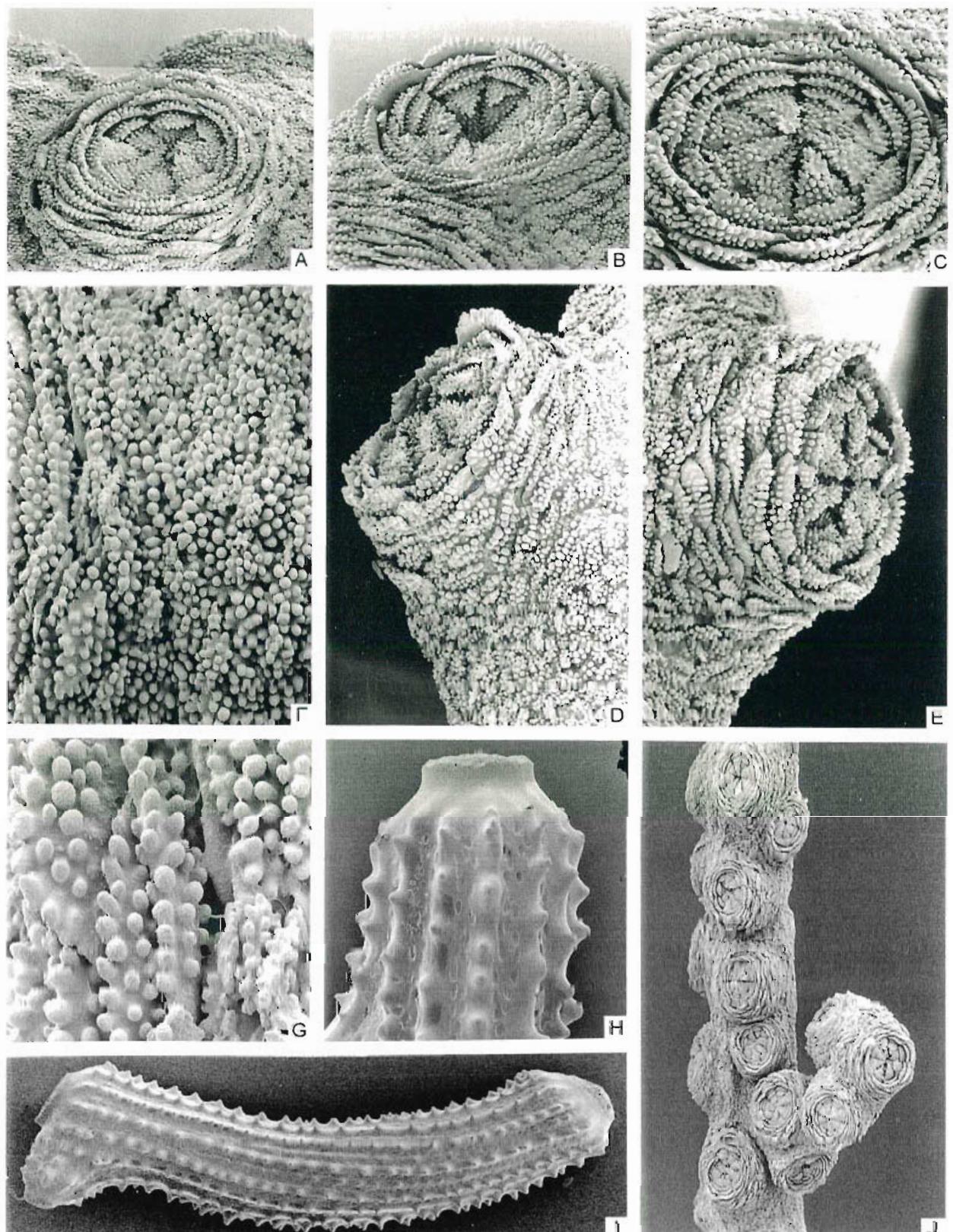


Fig. 58. *Acanthoisis myzourida* n.sp.: A-C, F. Holotype: (A-C). Polyps; (F-G). Coenenchyme; (H-I). Axial internodes; (J). Twig fragment. D,E. Paratype: Polyps.

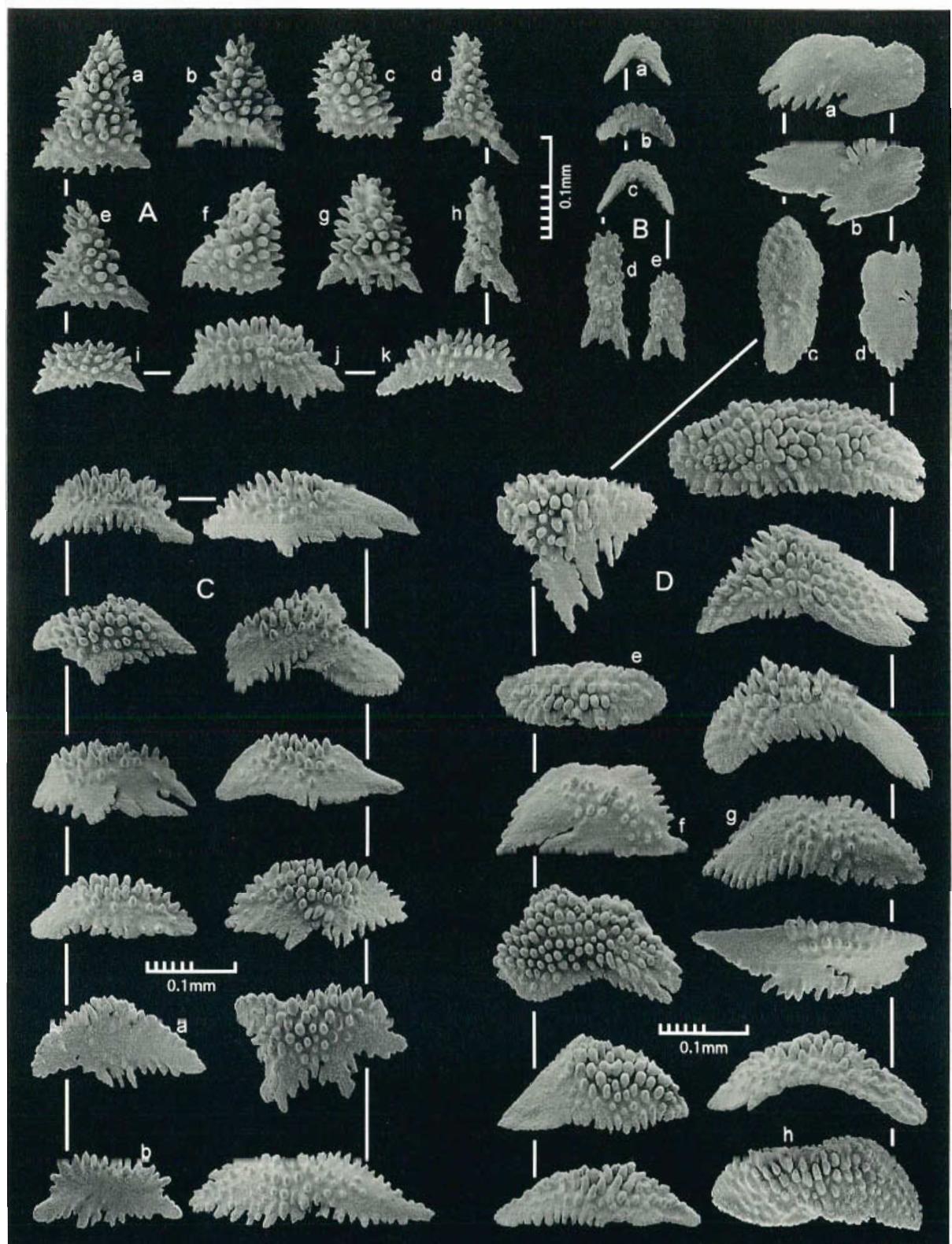


Fig. 59. *Acanthoisis myzourida* n.sp., holotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp head; D. Polyp base.

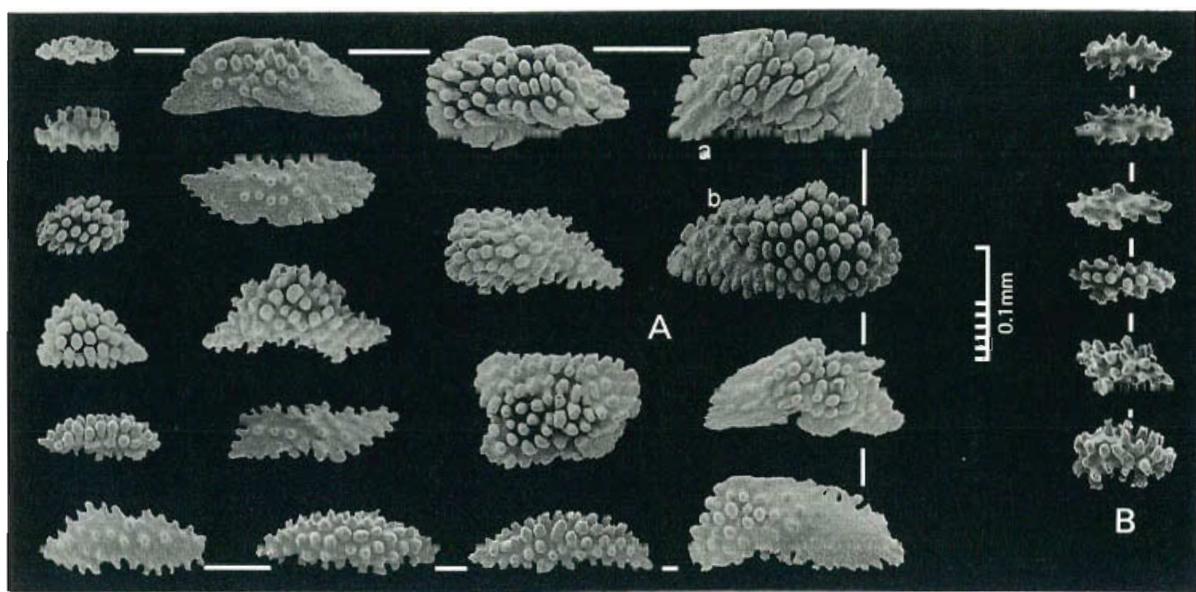


Fig. 60. *Acanthoisis myzourida* n.sp., holotype, sclerites: A. Branch coenenchyme; B. Stem coenenchyme.

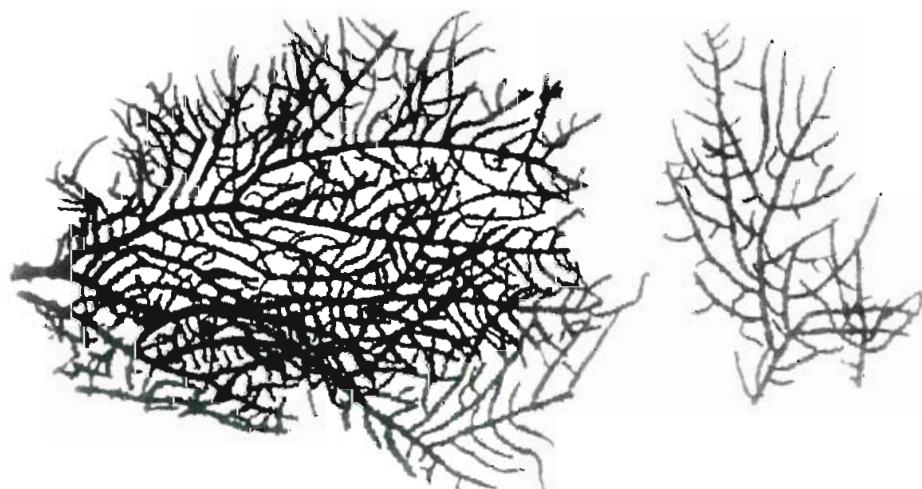


Fig. 61. *Acanthoisis kimbla* n.sp., holotype, natural size.

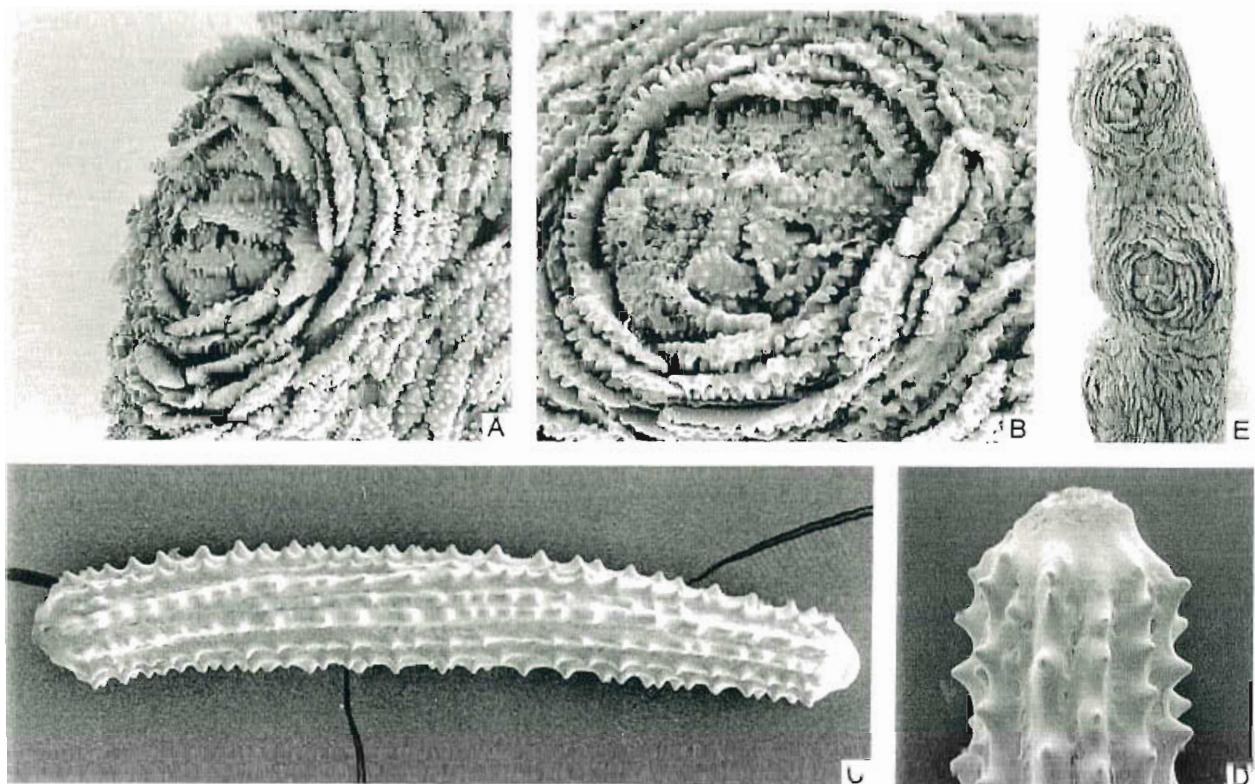


Fig. 62. *Acanthoisis kimbria* n.sp., holotype: A-B. Polyps; C-D. Axial internodes; E. Twig fragment.

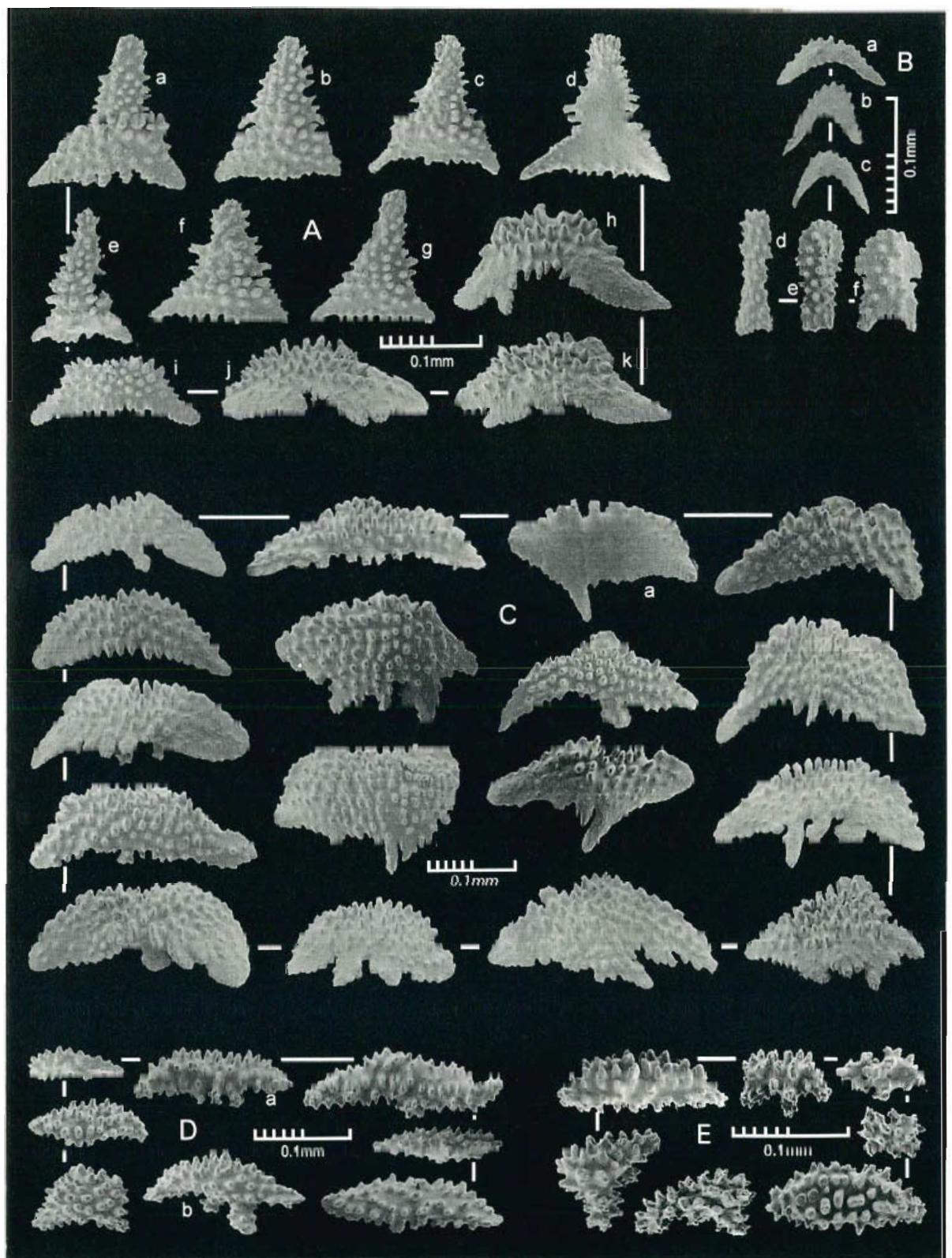


Fig. 63. *Acanthoisis kimbla* n.sp., holotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body; D. Thin branch coenenchyme; E. Main branch coenenchyme.

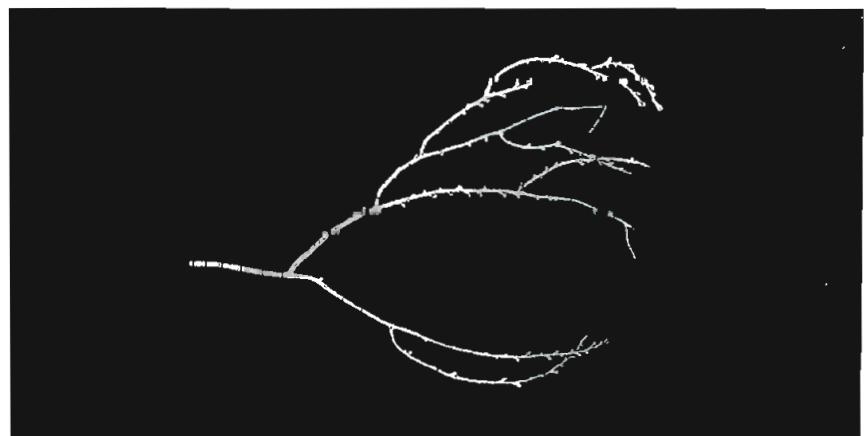


Fig. 64. *Notisia fragilis* Gravier, 1913, holotype, natural size.

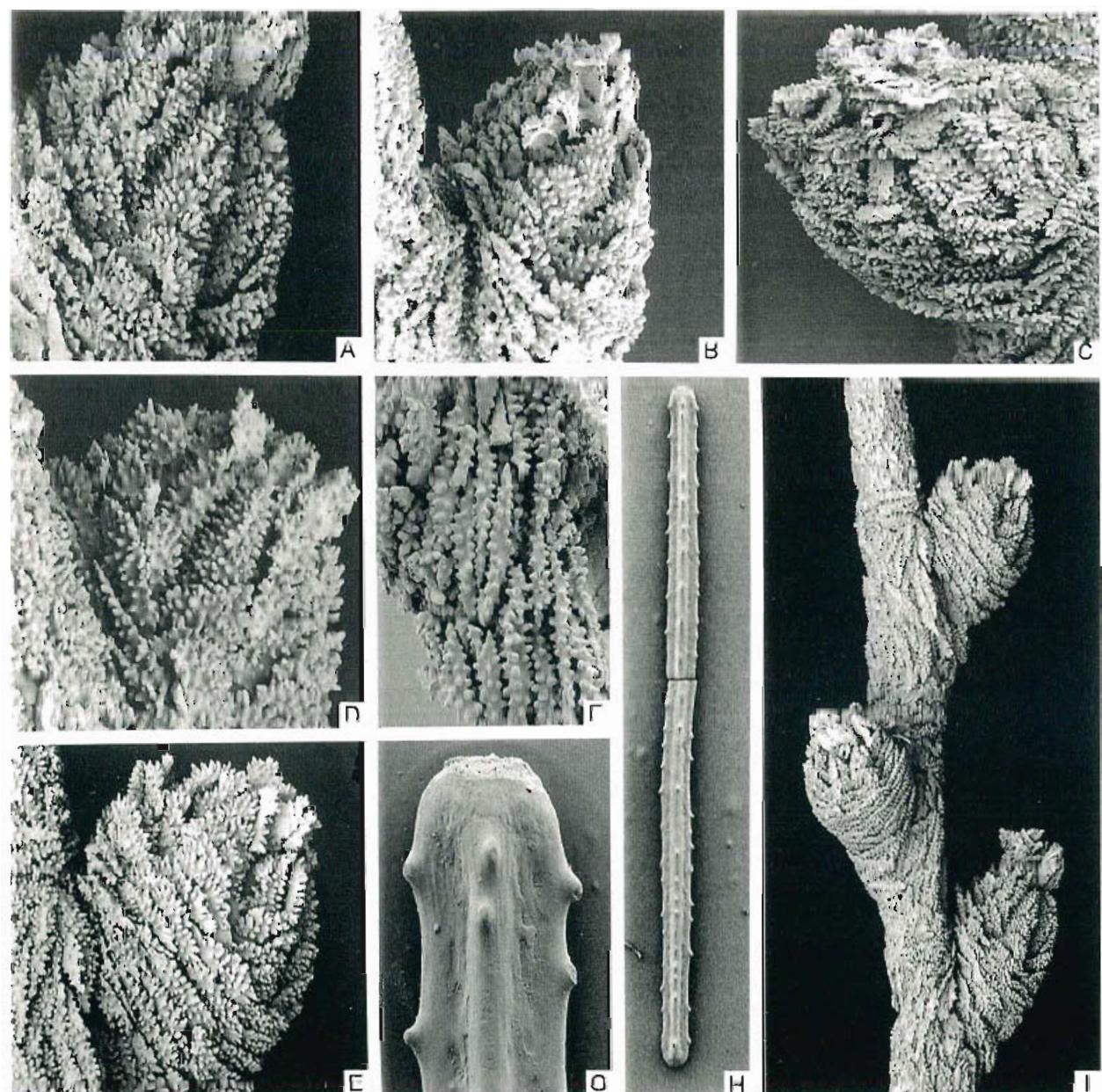


Fig. 65. *Notisia fragilis* Gravier, 1913, holotype: A-E. Polyps; F. Coenenchyme; G-H. Axial internodes; I. Twig fragment.

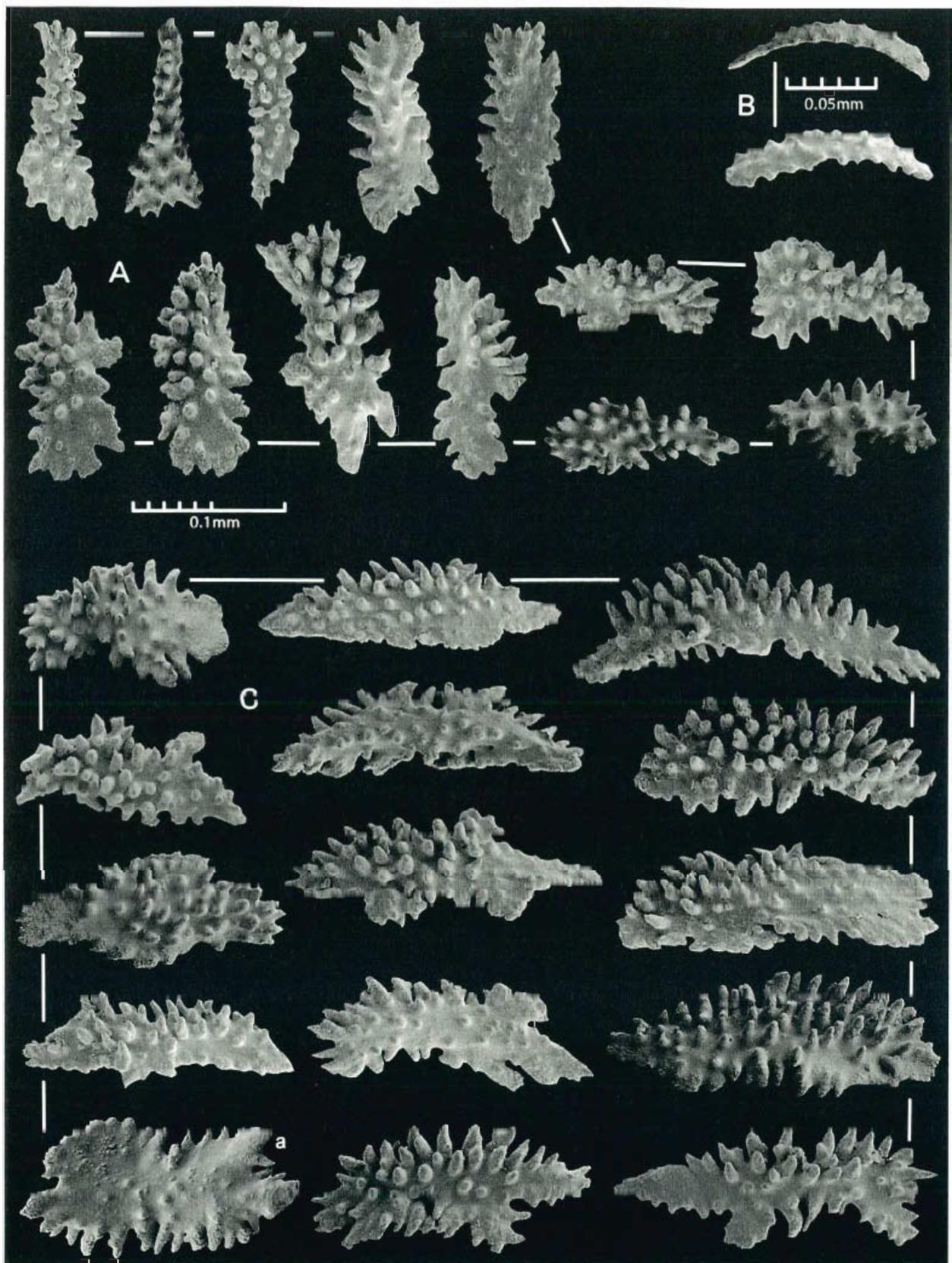


Fig. 66. *Notisia fragilis* Gravier, 1913, holotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

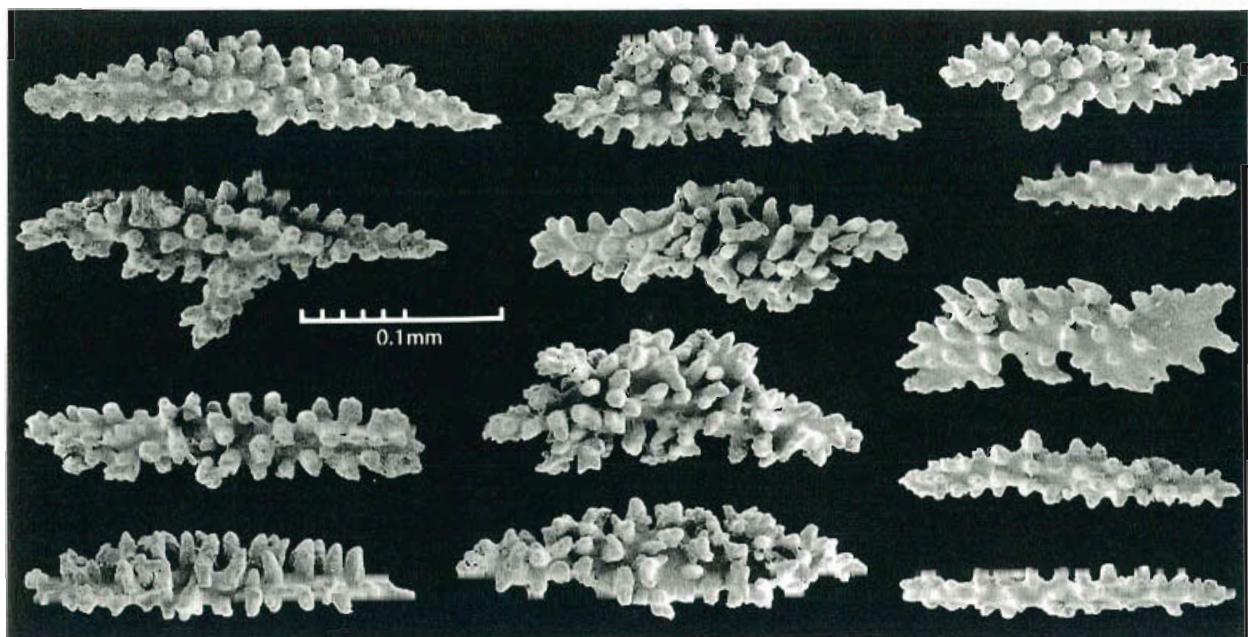


Fig. 67. *Notisia fragilis* Gravier, 1913, holotype, sclerites: Branch coenenchyme.



Fig. 68. *Notisia cf. fragilis* Gravier, 1913, NZOI E225b, natural size.

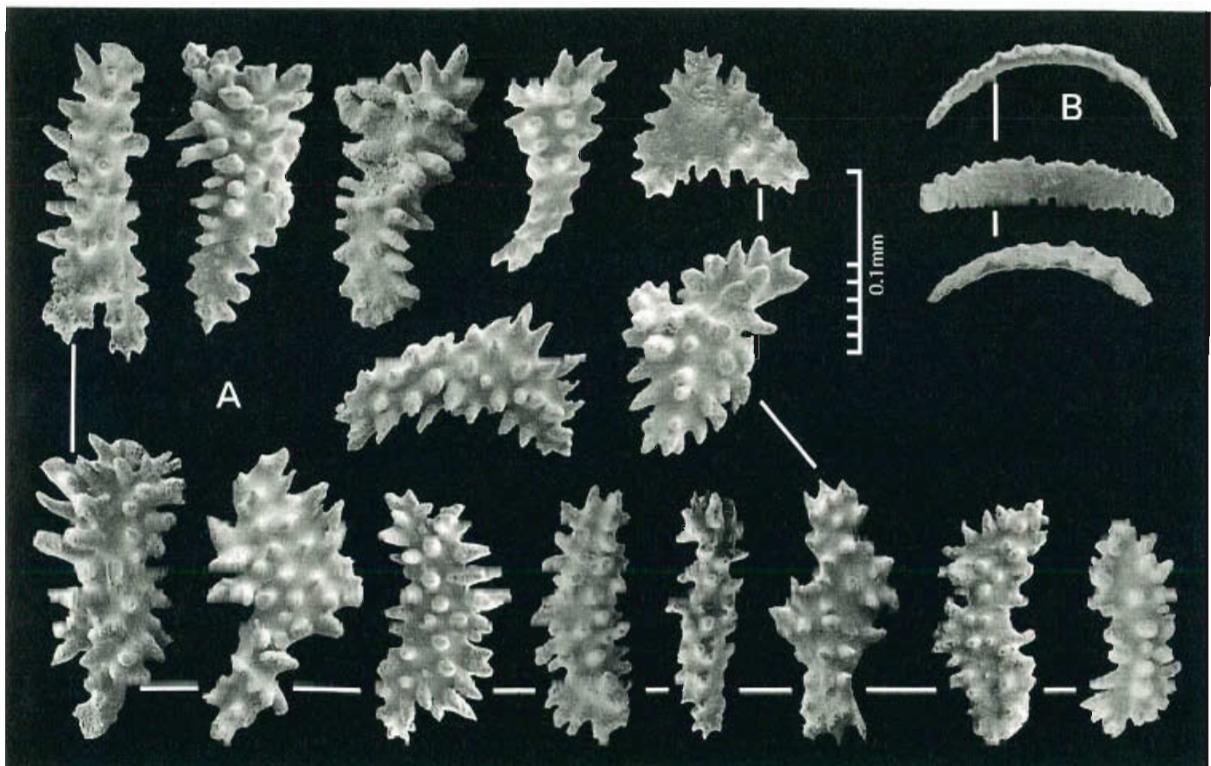


Fig. 69. *Notisia cf. fragilis* Gravier, 1913, NZOI E225b, sclerites: A. Anthopoma; B. Tentacles.

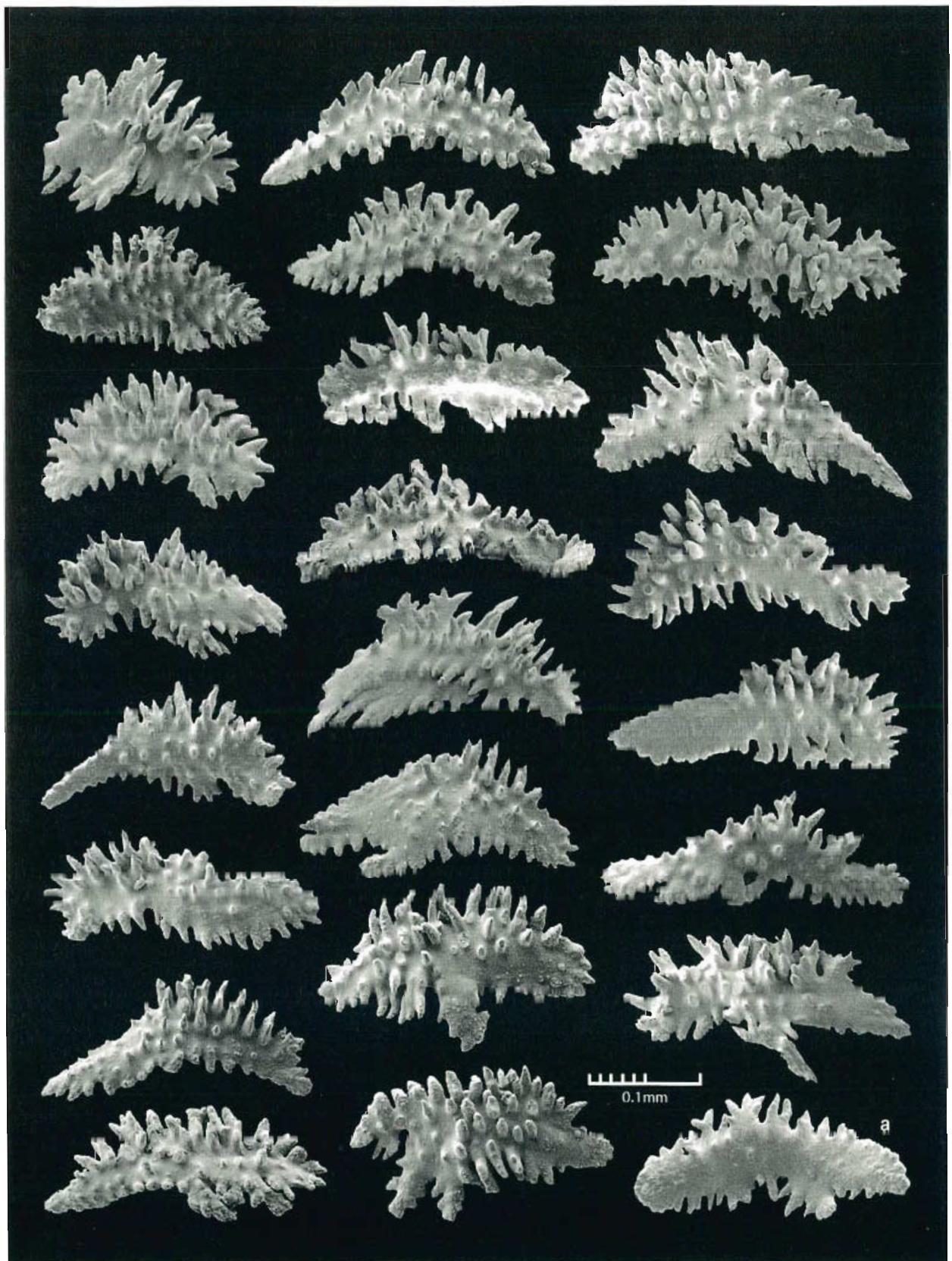


Fig. 70. *Notisia* cf. *fragilis* Gravier, 1913, NZOI E225b, sclerites: Polyp body.

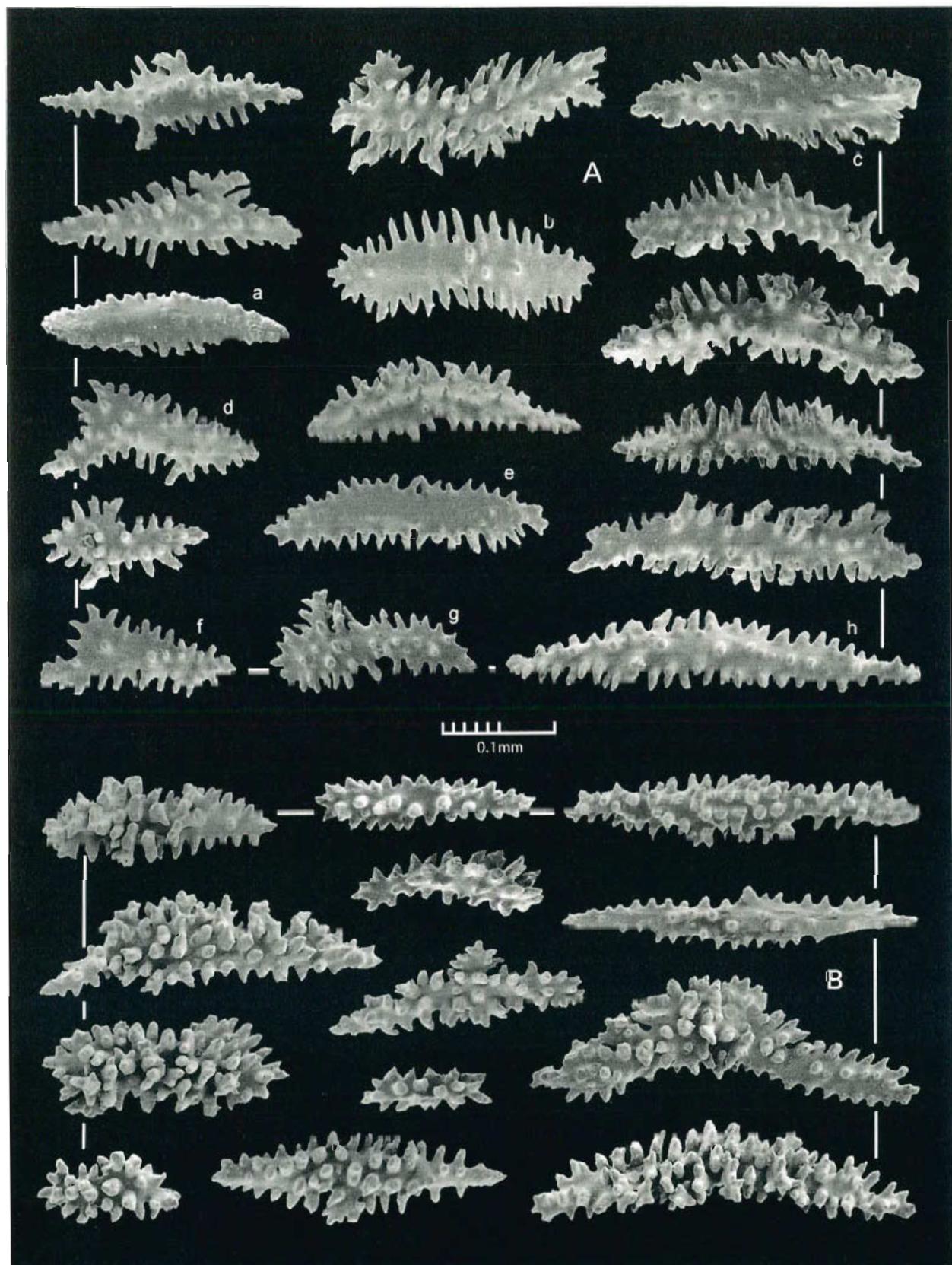


Fig. 71. *Notisia* cf. *fragilis* Gravier, 1913, NZOI E225b, sclerites: A. Polyp base where it adjoins a brood pouch; B. Branch coenenchyme.

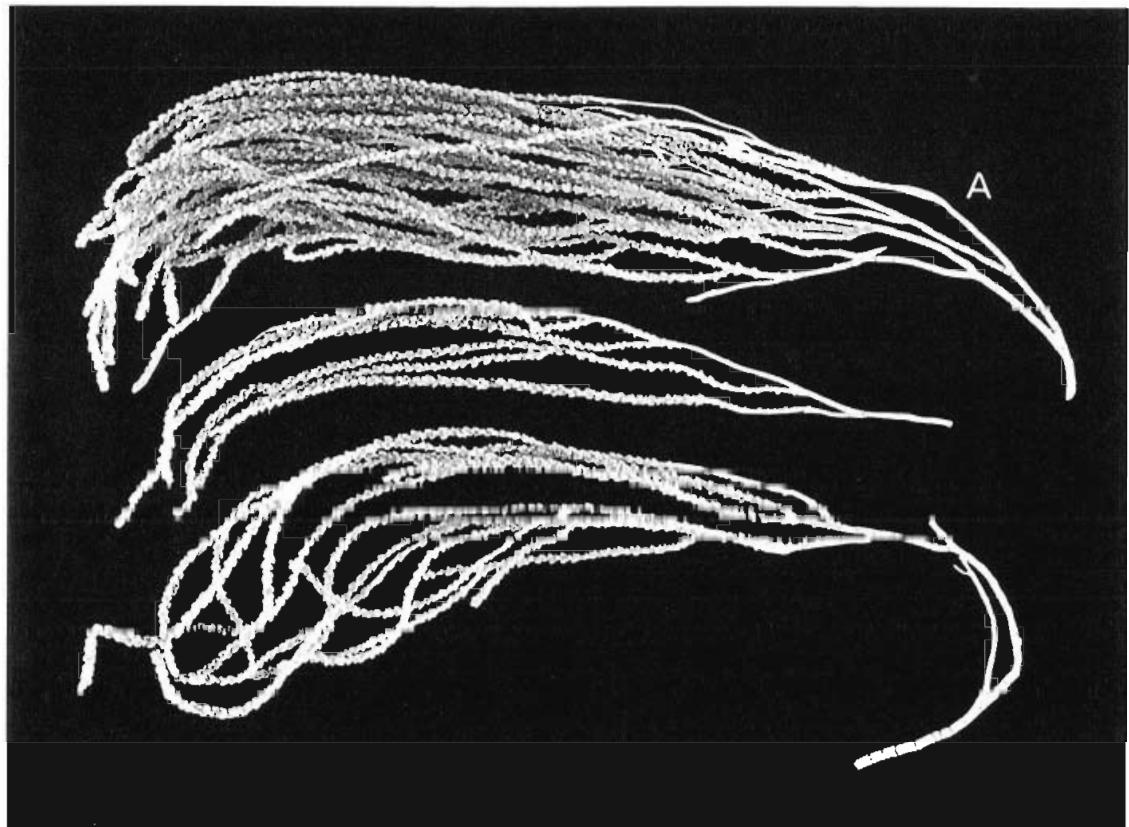


Fig. 72. *Notisia elongata* (Roule, 1907), specimens from lot n° 641: A. Holotype. All natural size x 0.75.

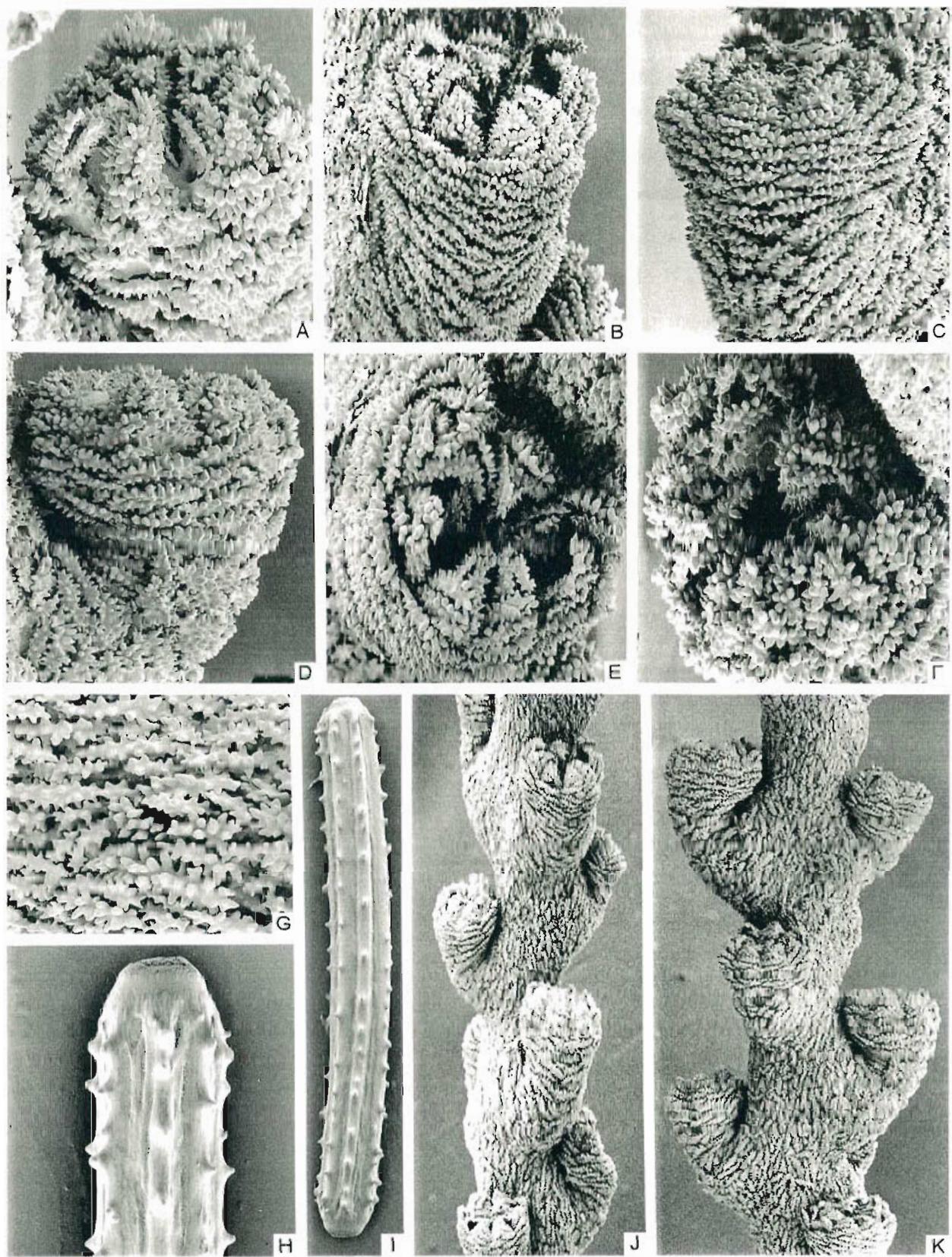


Fig. 73. *Notisia elongata* (Roule, 1907), holotype: A-F. Polyps; G. Coenenchyme; H-I. Axial internodes; J-K. Twig fragments.

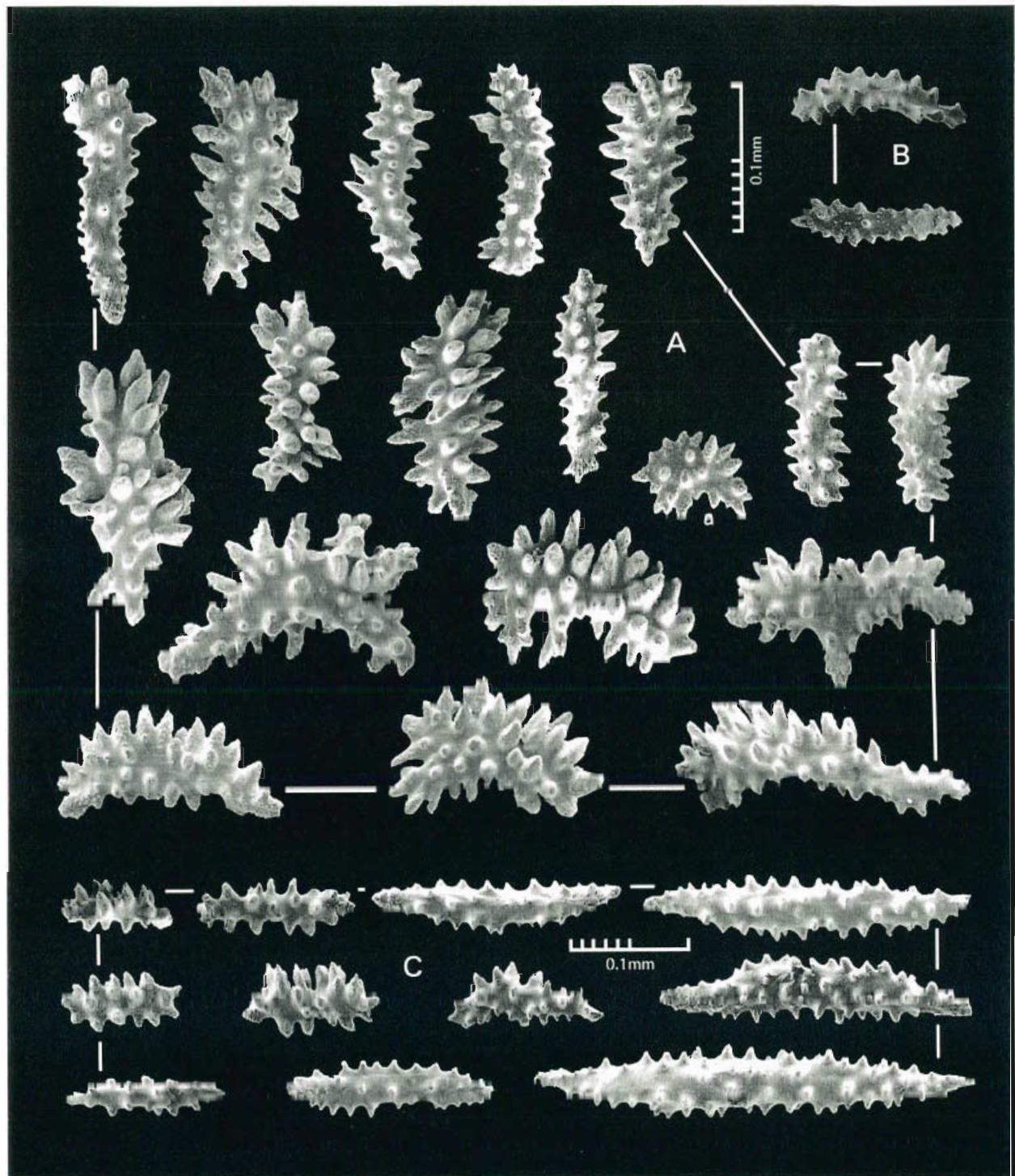


Fig. 74. *Notisia elongata* (Roule, 1907), holotype, sclerites: A. Anthopoma; B. Tentacles; C. Branch coenenchyme.

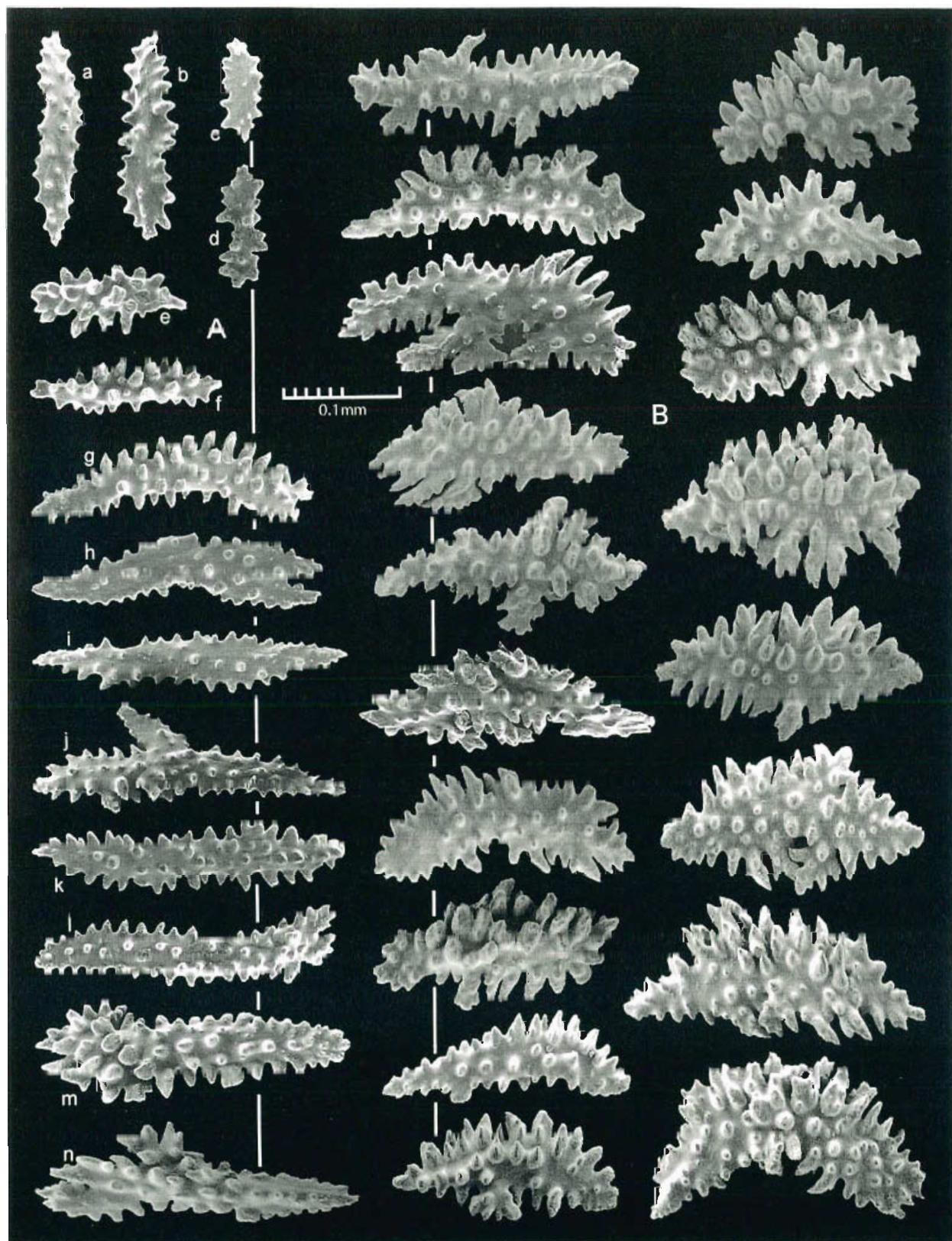


Fig. 75. *Notisia elongata* (Roule, 1907), holotype, sclerites: A. Lower polyp body; B. Upper polyp body.

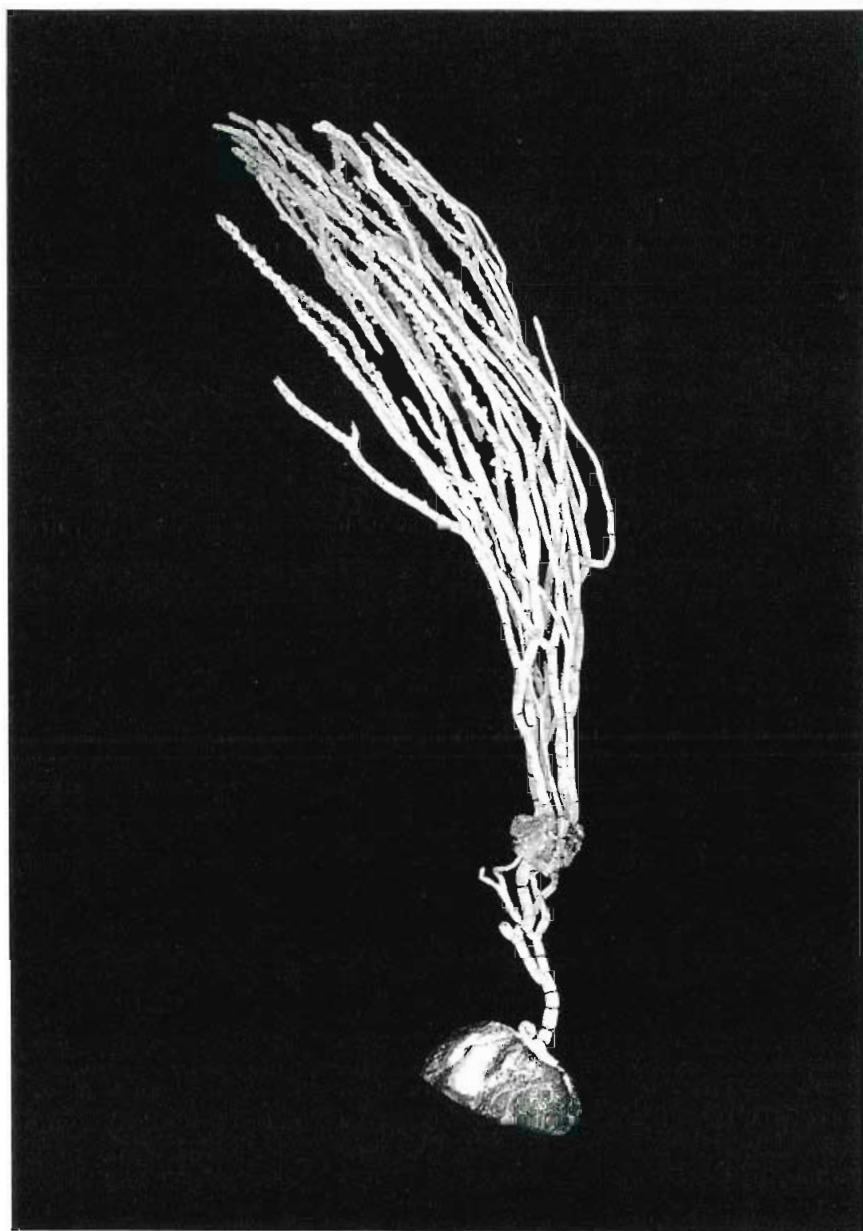


Fig. 76. *Notisia charcoti* n.sp., holotype, natural size.

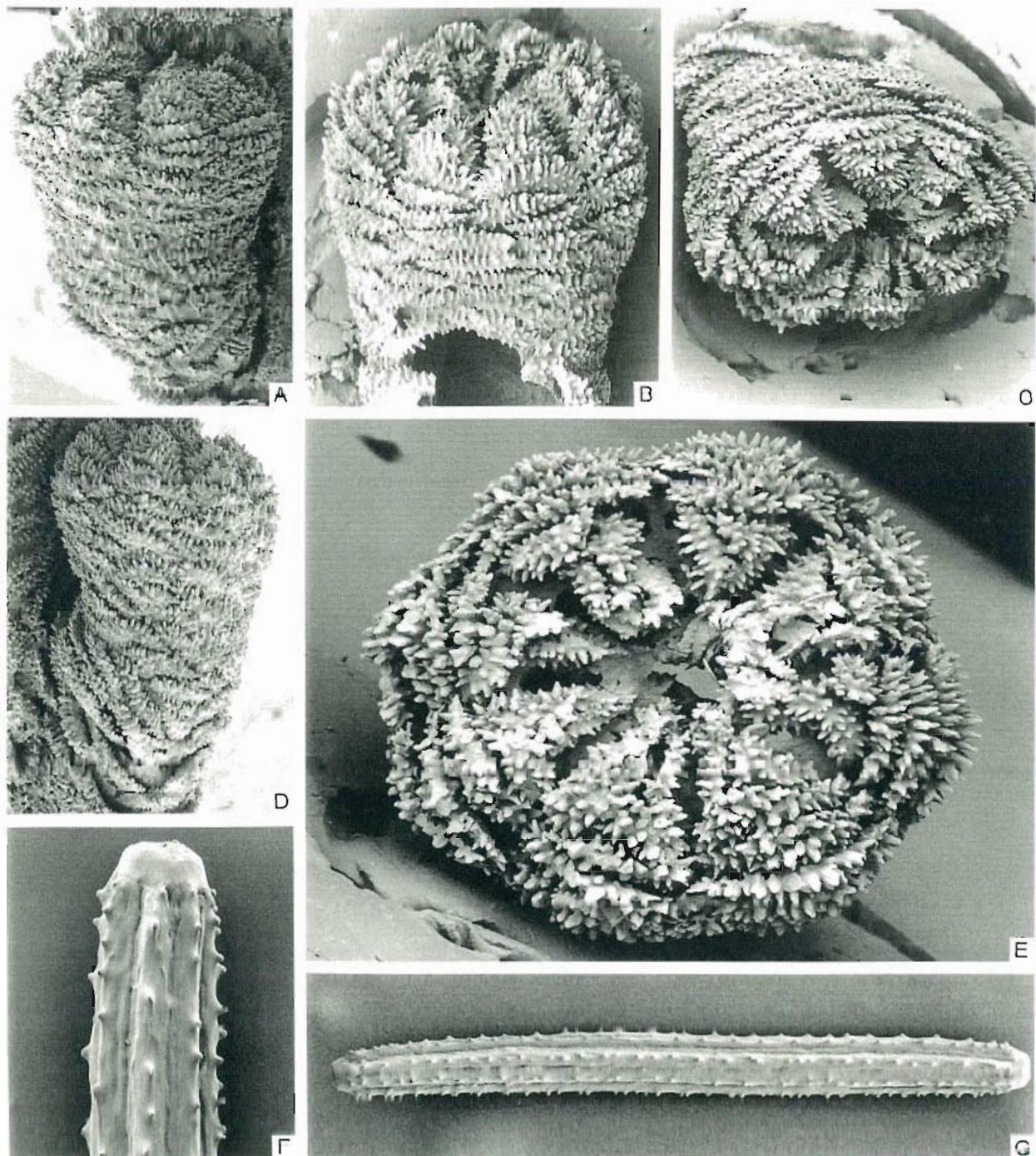


Fig. 77. *Notisia charcoti* n.sp., holotype: A-E. Polyps; F-G. Axial internodes.

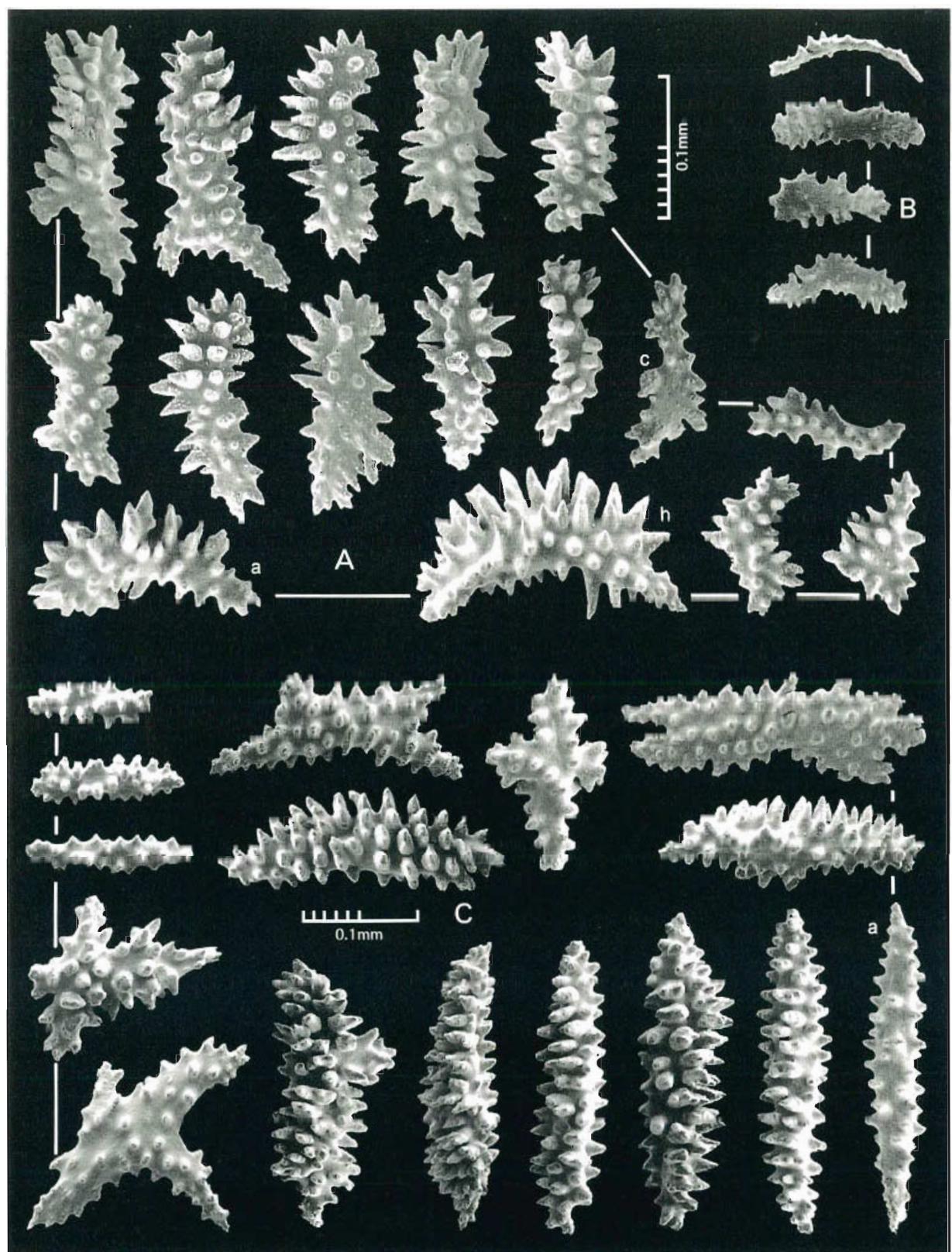


Fig. 78. *Notisia charcoti* n.sp., holotype, sclerites: A. Anthopoma; B. Tentacles; C. Branch coenenchyme.

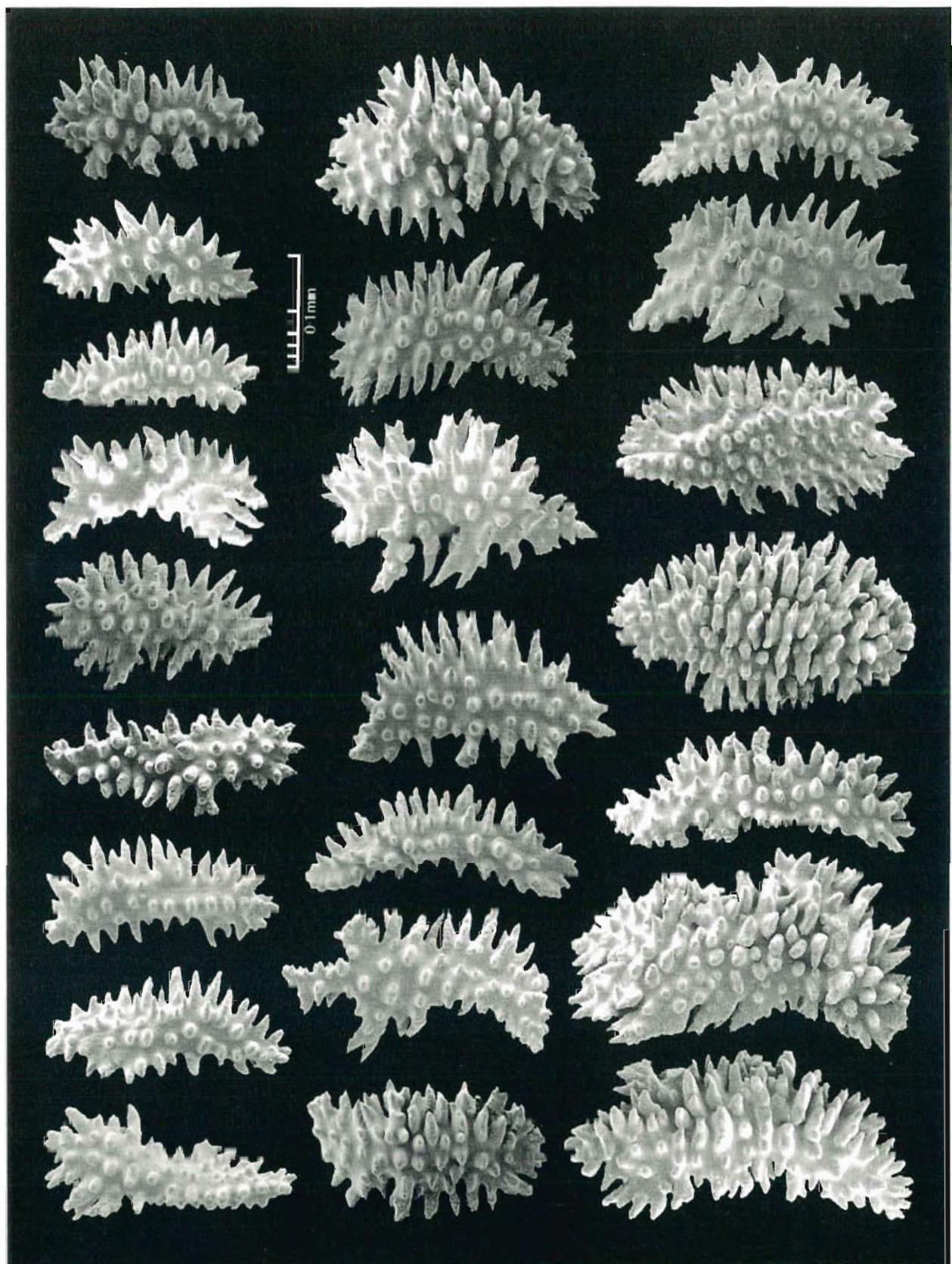


Fig. 79. *Notisia charcoti* n.sp., holotype, sclerites: Polyp body.

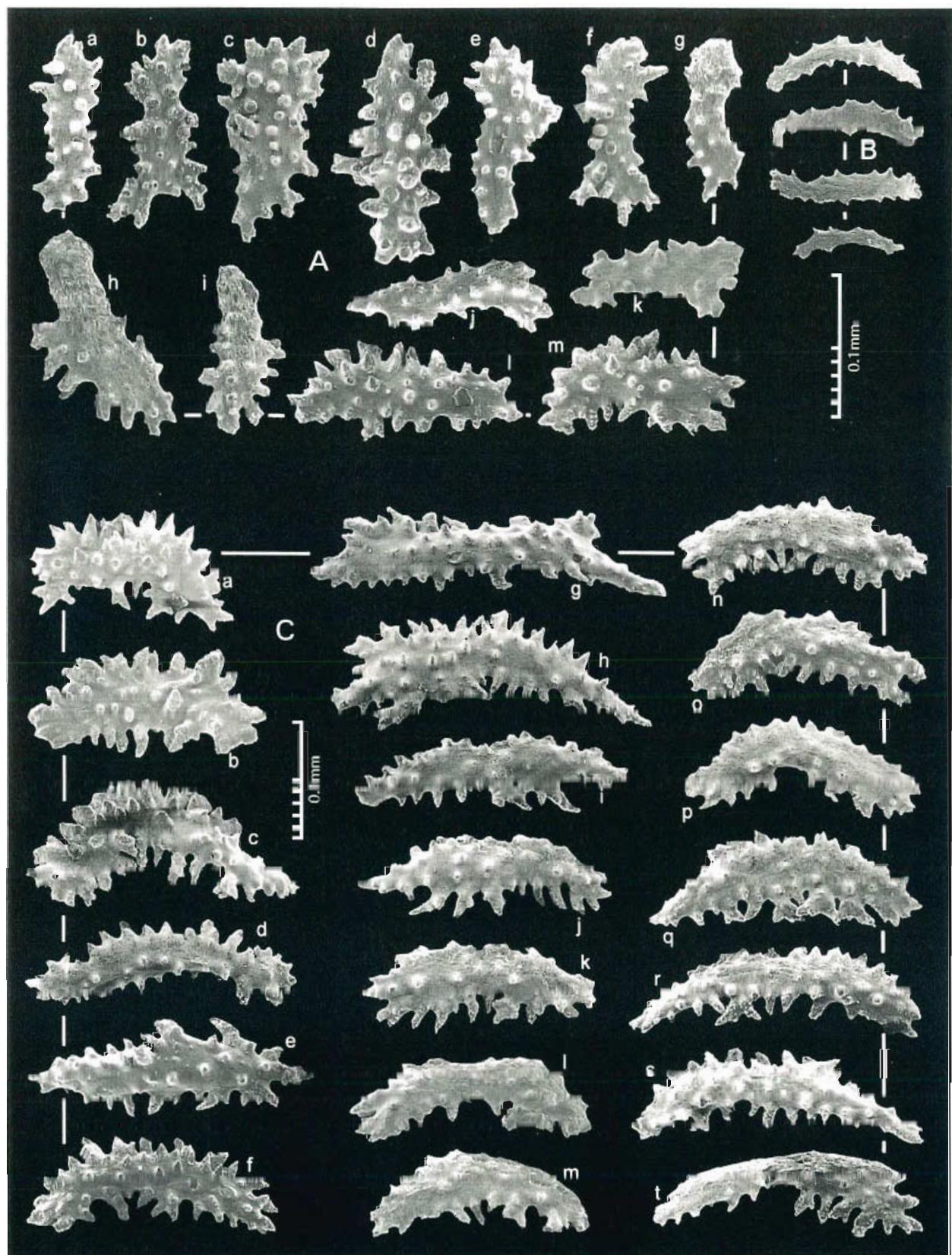


Fig. 80. *Notisia* sp. indet., sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

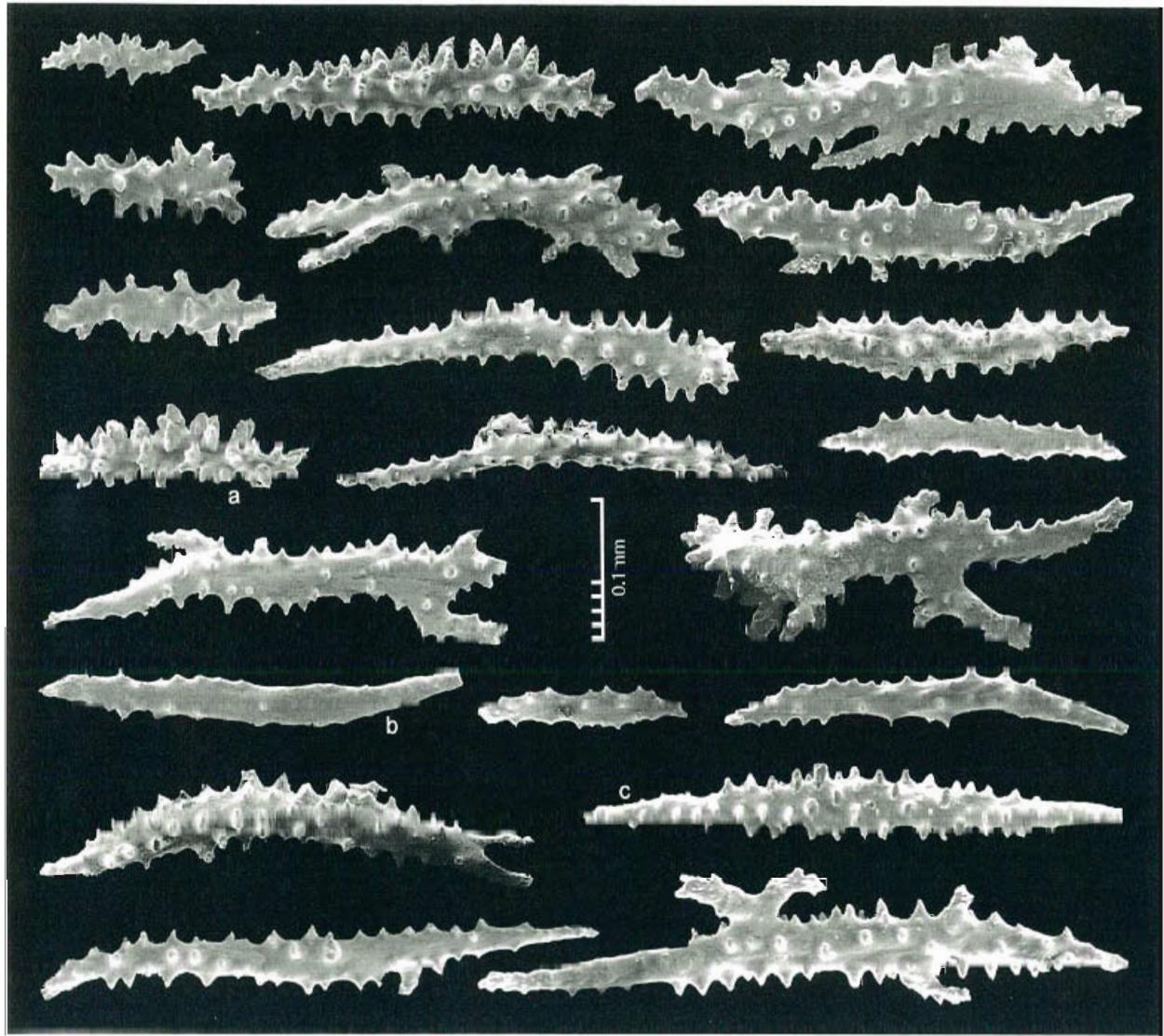


Fig. 81. *Notisia* sp. indet., sclerites: Twig coenenchyme.

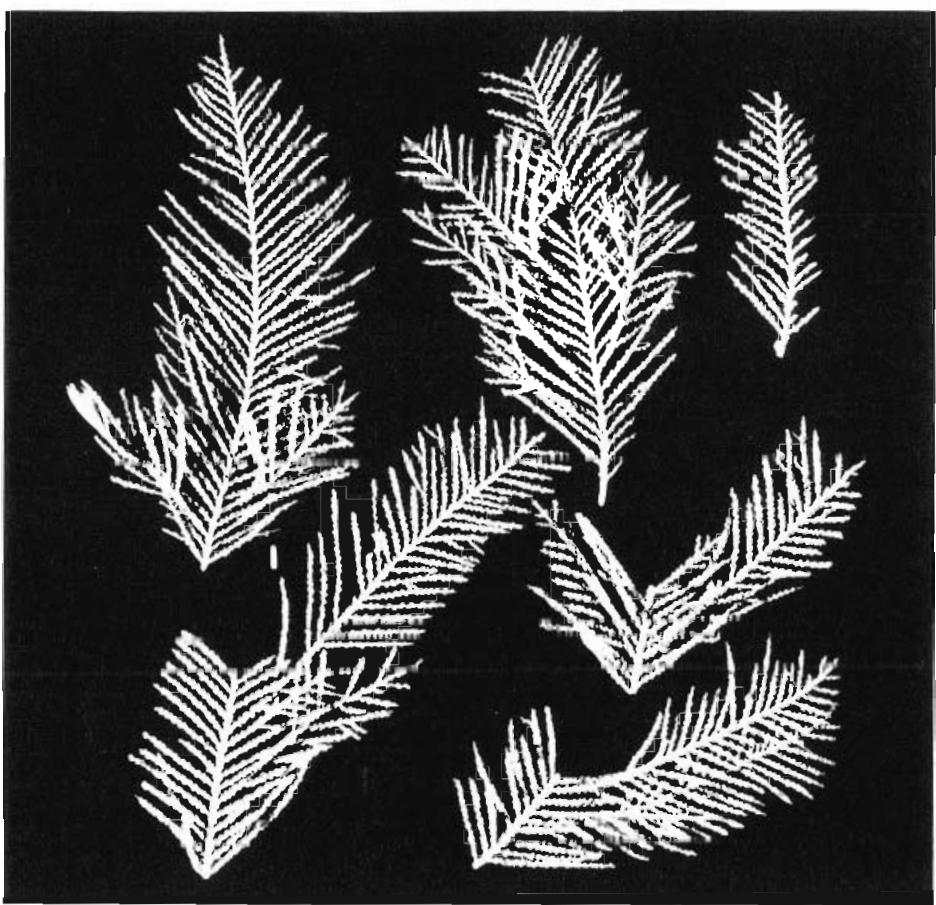


Fig. 82. *Pteronisis whiteleggei* (Thomson & Mackinnon, 1911), holotype, natural size.

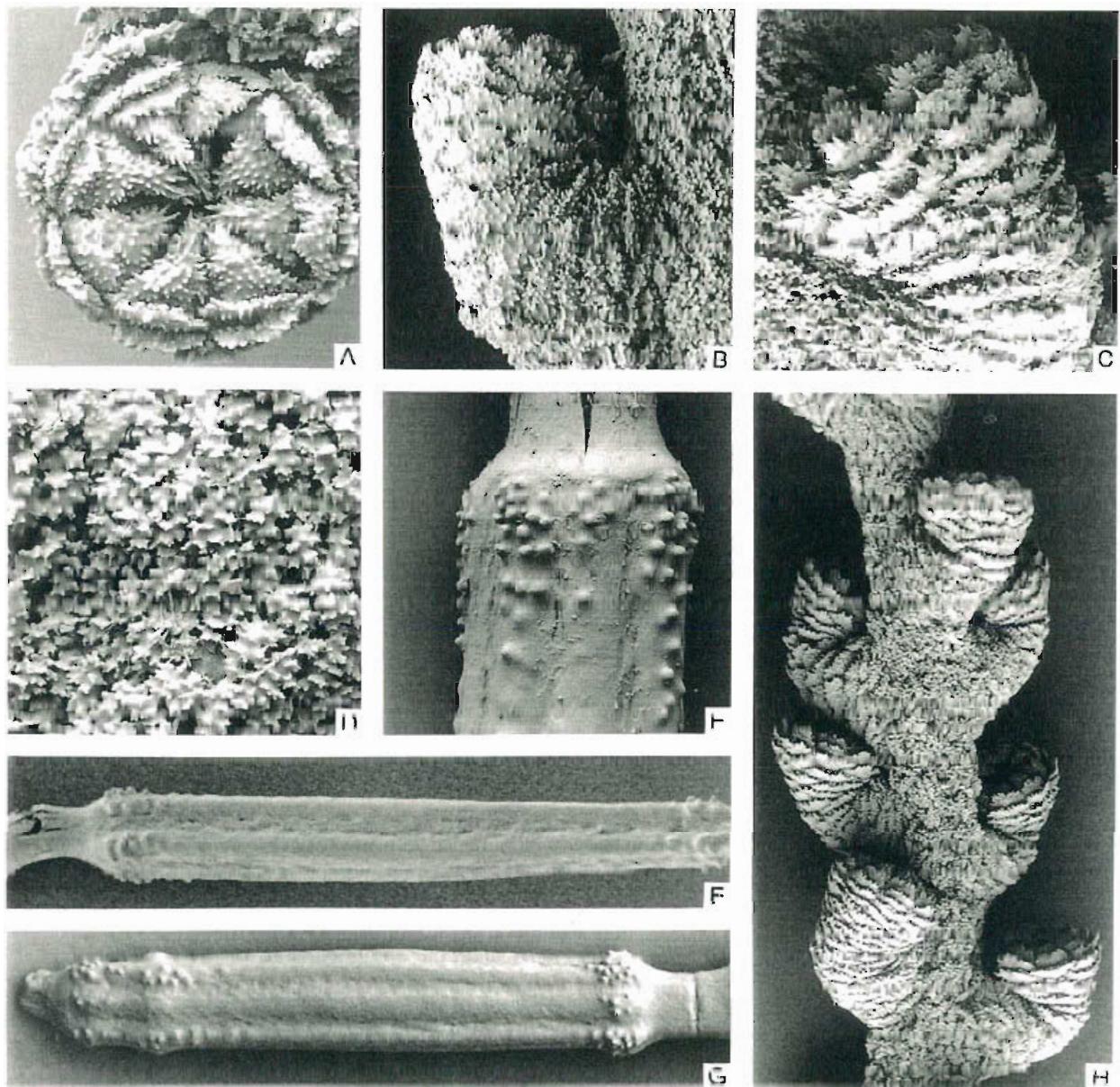


Fig. 83. *Pteronisis whiteleggei* (Thomson & Mackinnon, 1911), holotype: A-C. Polyps; D. Coenenchyme; E-G. Axial internodes; H. Twig fragment.

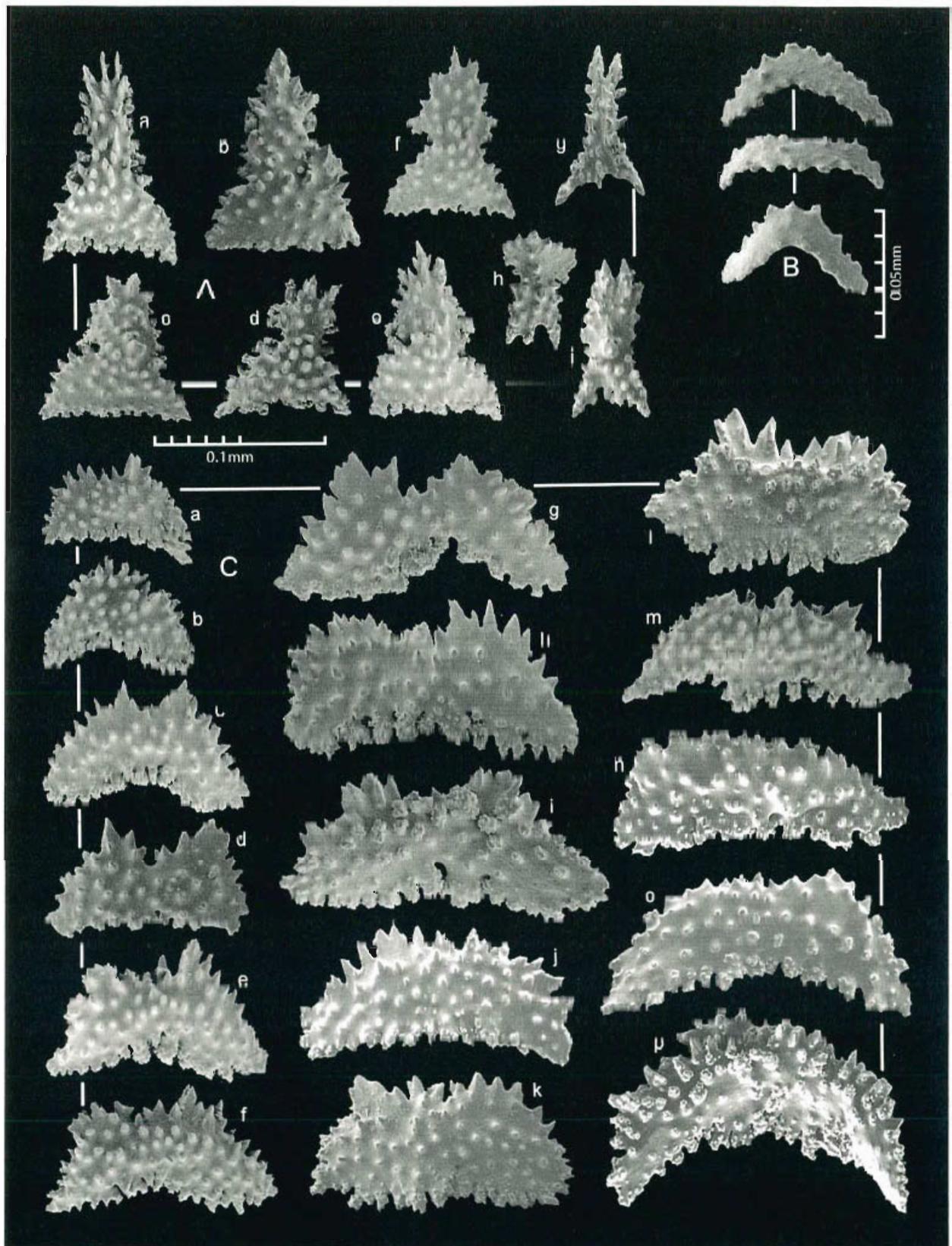


Fig. 84. *Pteronisis whiteleggei* (Thomson & Mackinnon, 1911), holotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

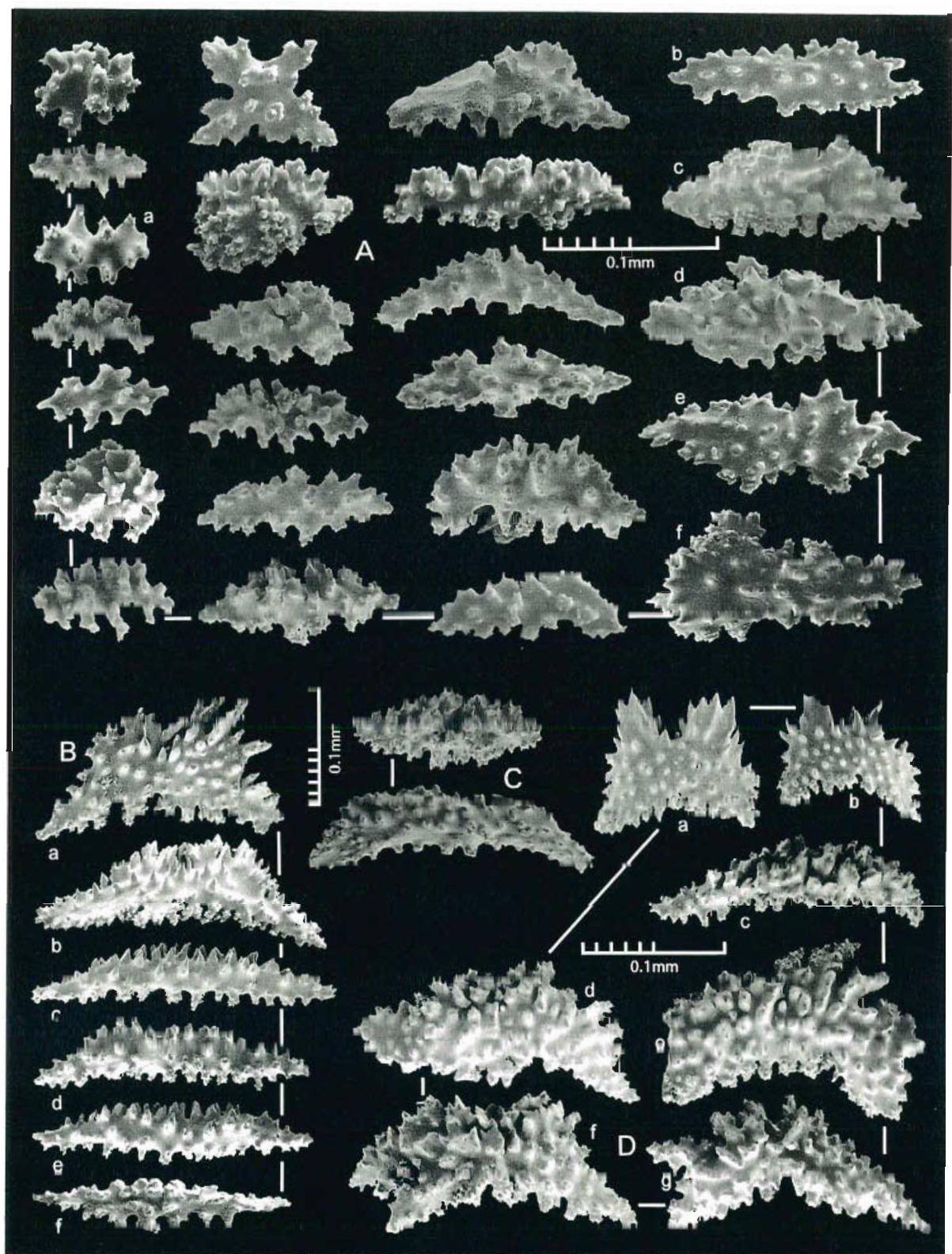


Fig. 85. *Pteronisia whiteleggei* (Thomson & Mackinnon, 1911), sclerites: A. Holotype, coenenchyme; B. SAM H834, polyp & coenenchyme; C. AM G12144, paratype, polyp & coenenchyme; C. QM G4711, polyp & coenenchyme.

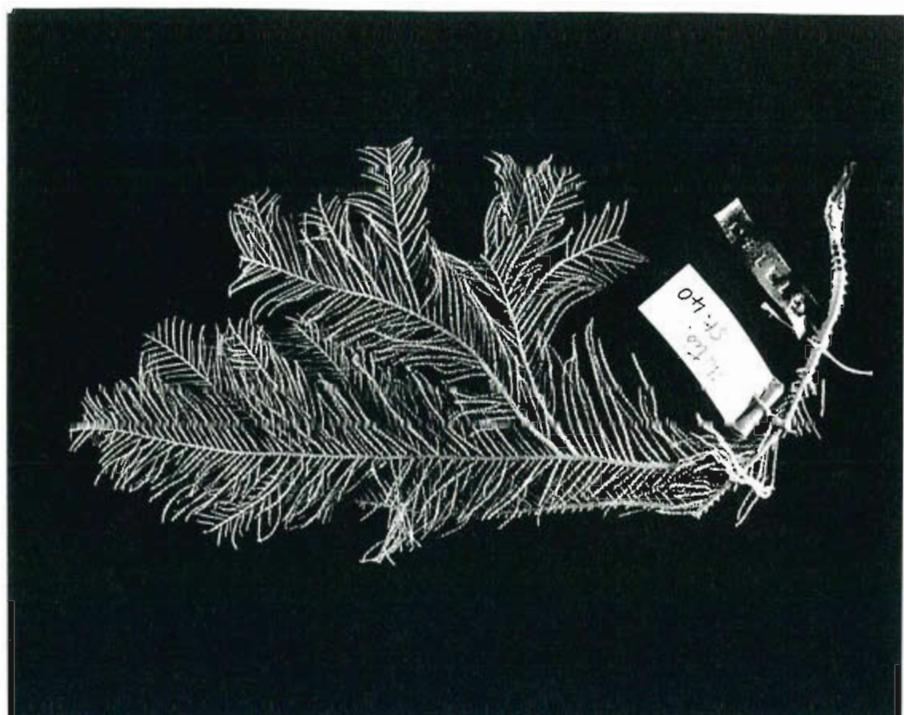


Fig. 86. *Pteronisis whiteleggei* (Thomson & Mackinnon, 1911), paratype, AM G12143, natural size x 0.5.

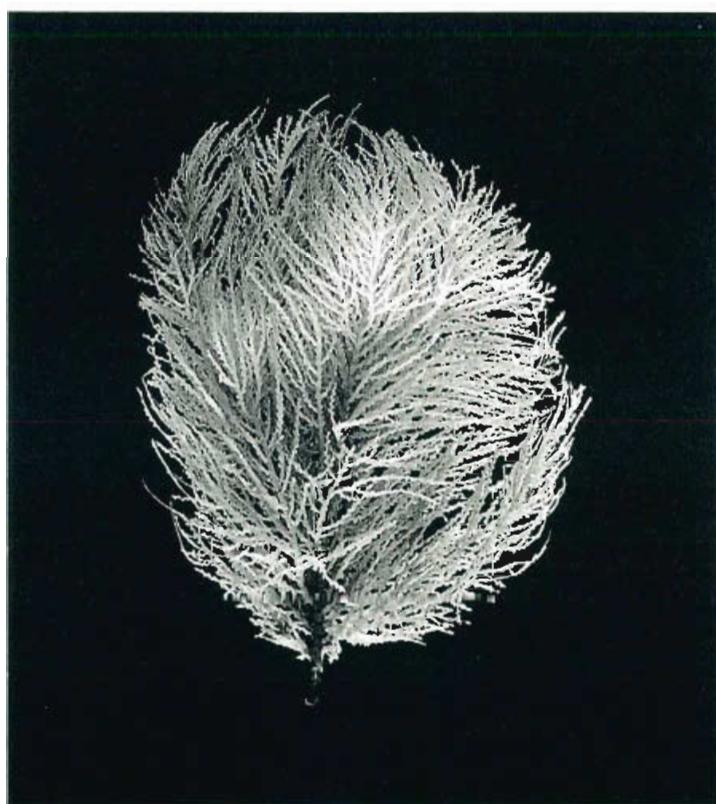


Fig. 87. *Pteronisis whiteleggei* (Thomson & Mackinnon, 1911), QM G4711, natural size.

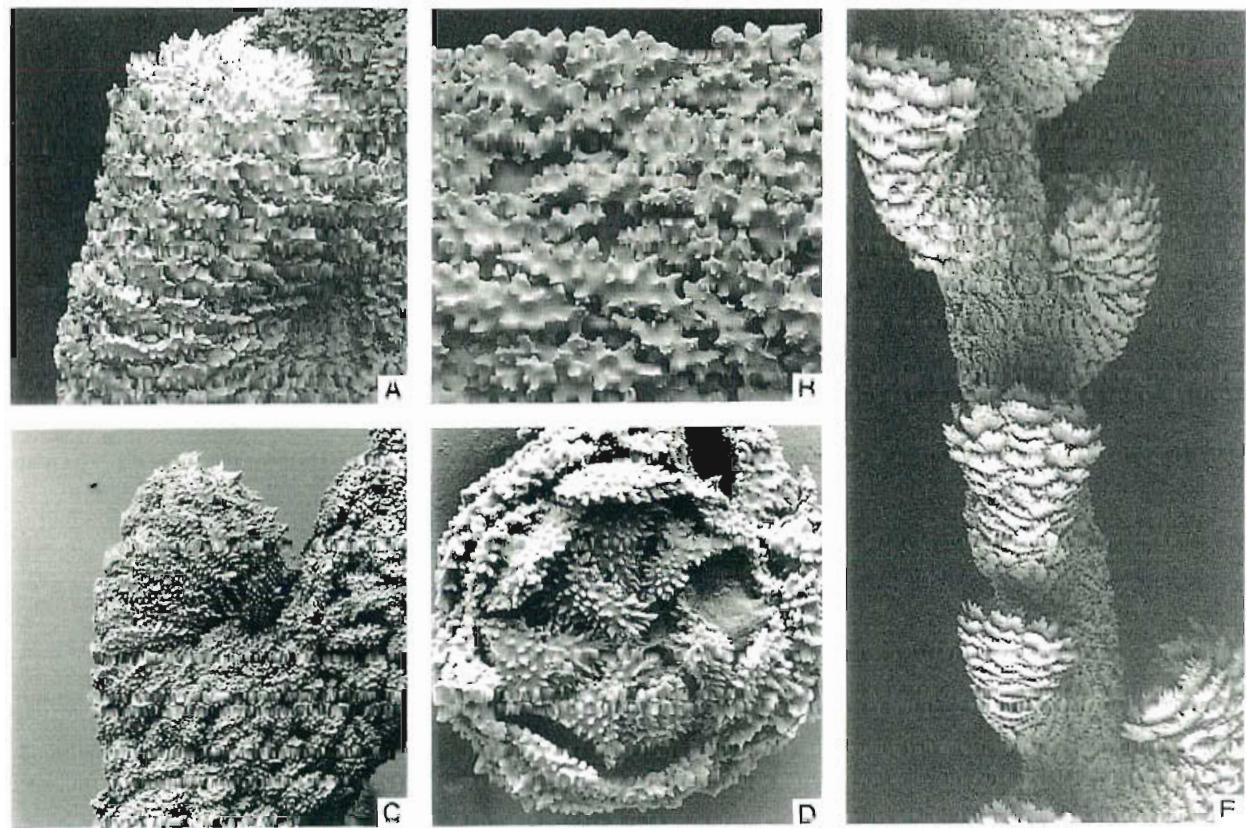


Fig. 88. *Pteronisia whiteleggei* (Thomson & Mackinnon, 1911): A-B. AM E6036: (A). Polyp; (B). Coenenchyme. C-E. Paratype, AM G12144: (C-D). Polyp; (E). Twig fragment.

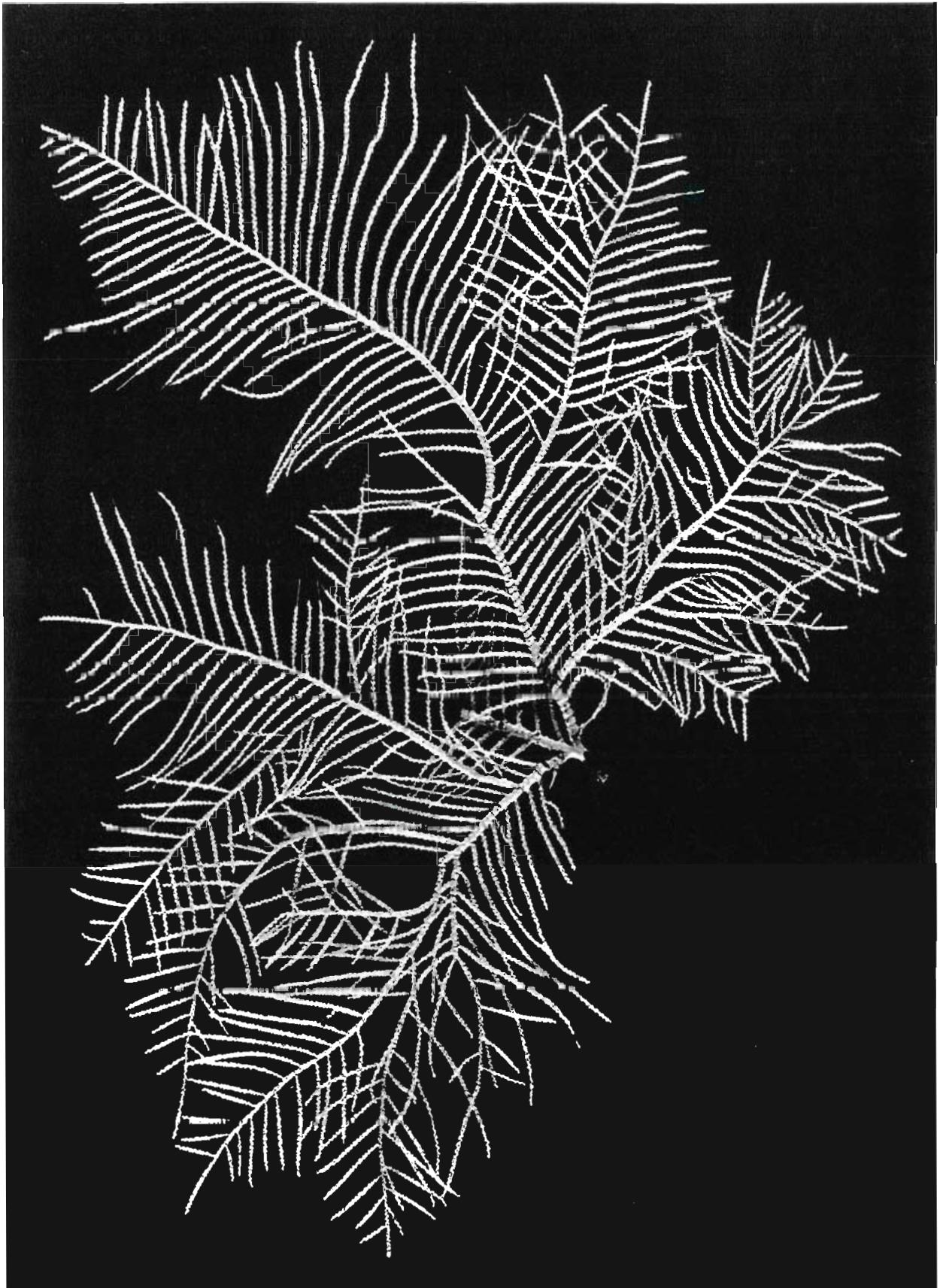


Fig. 89. *Pteronisis provocatoris* (Bayer & Stefani, 1987), holotype, natural size x 0.9.

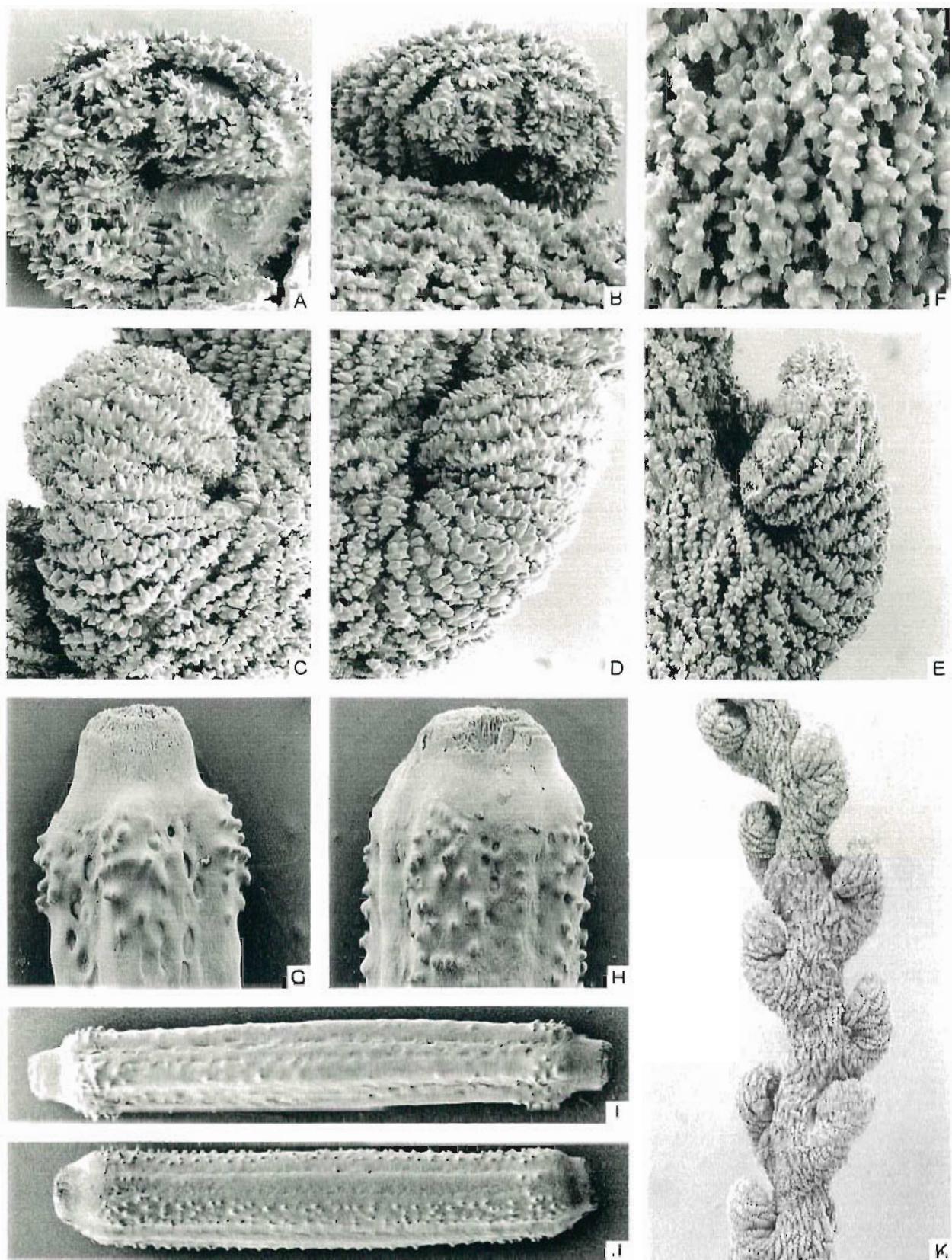


Fig. 90. *Pteronisis provocatoris* (Bayer & Stefani, 1987), holotype: A-E. Polyps; F. Coenenchyme; G-J. Axial internodes; K. Twig fragment.

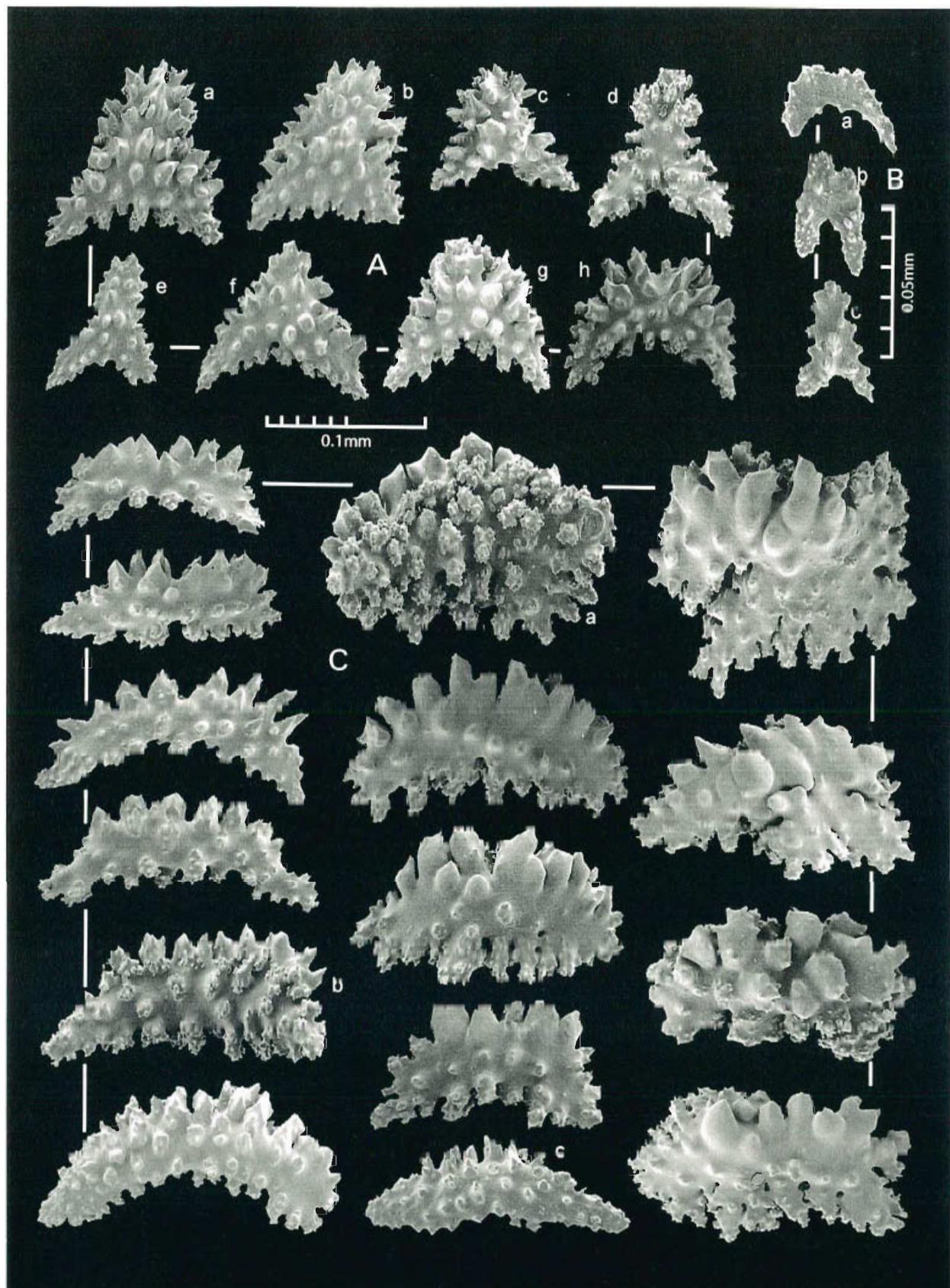


Fig. 91. *Pteronisis provocatoris* (Bayer & Stefani, 1987), holotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

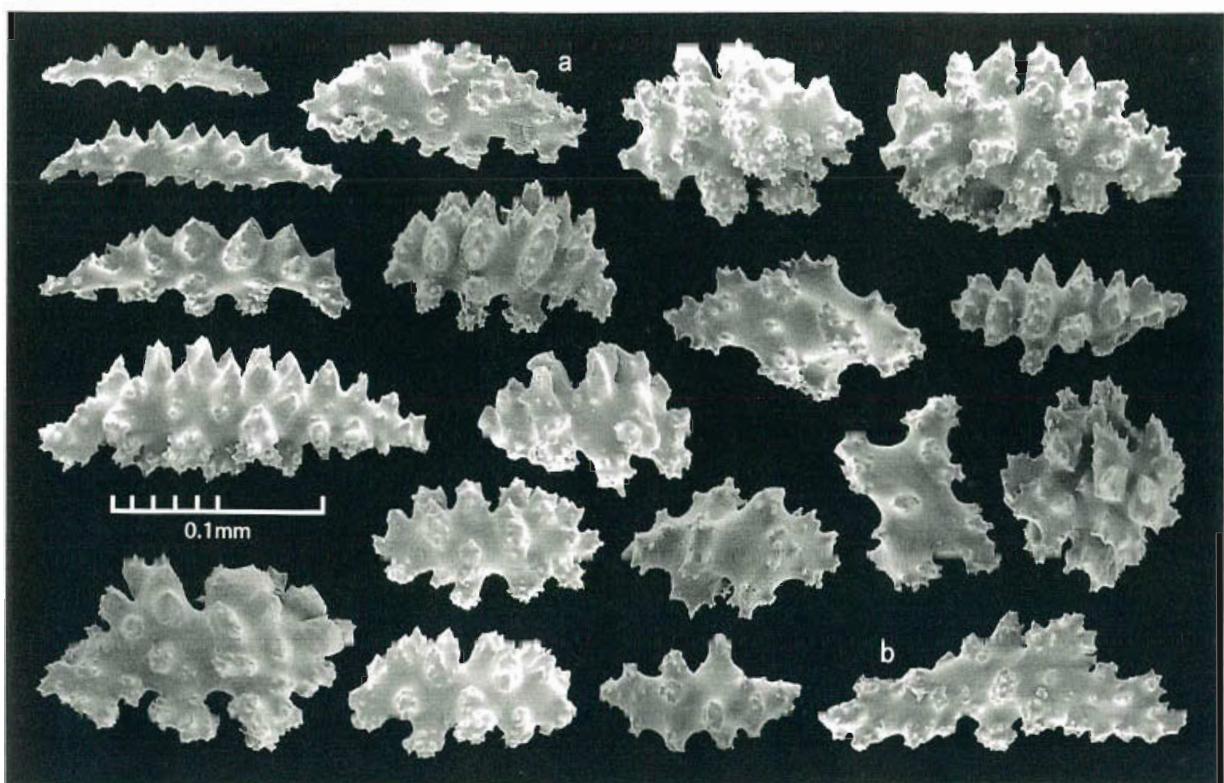


Fig. 92. *Pteronisis provocatoris* (Bayer & Stefani, 1987), holotype, sclerites: Coenenchyme.

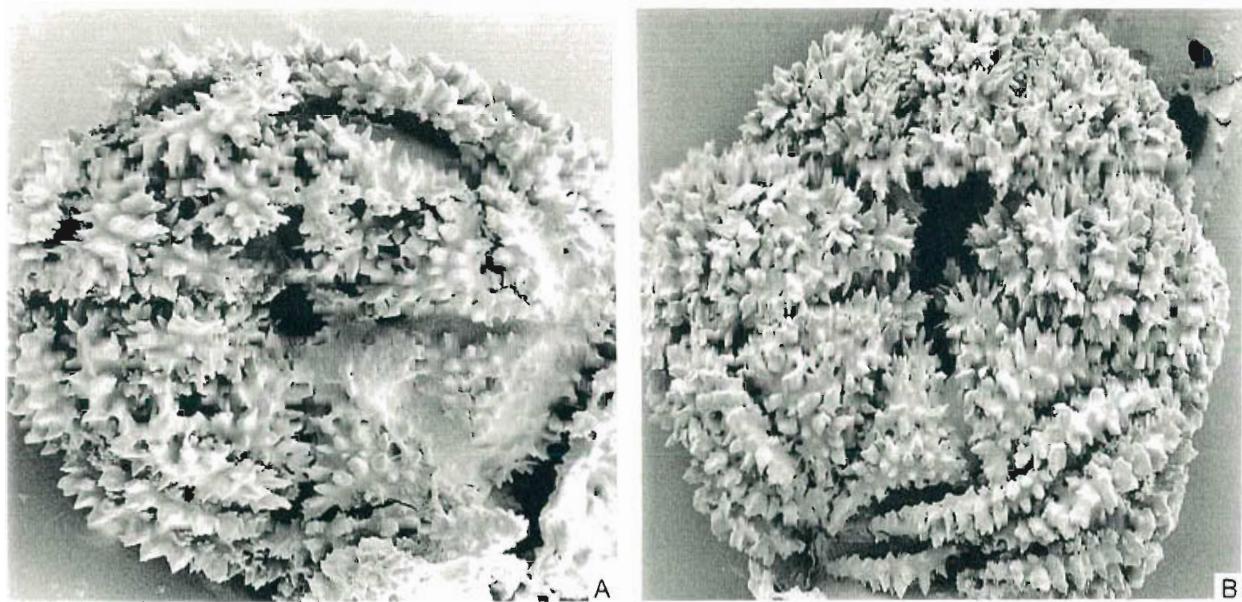


Fig. 93. A. *Pteronisis provocatoris* (Bayer & Stefani, 1987), holotype, polyp; B. *Mopsea bargibanti* Bayer & Stefani, 1987, holotype, polyp.

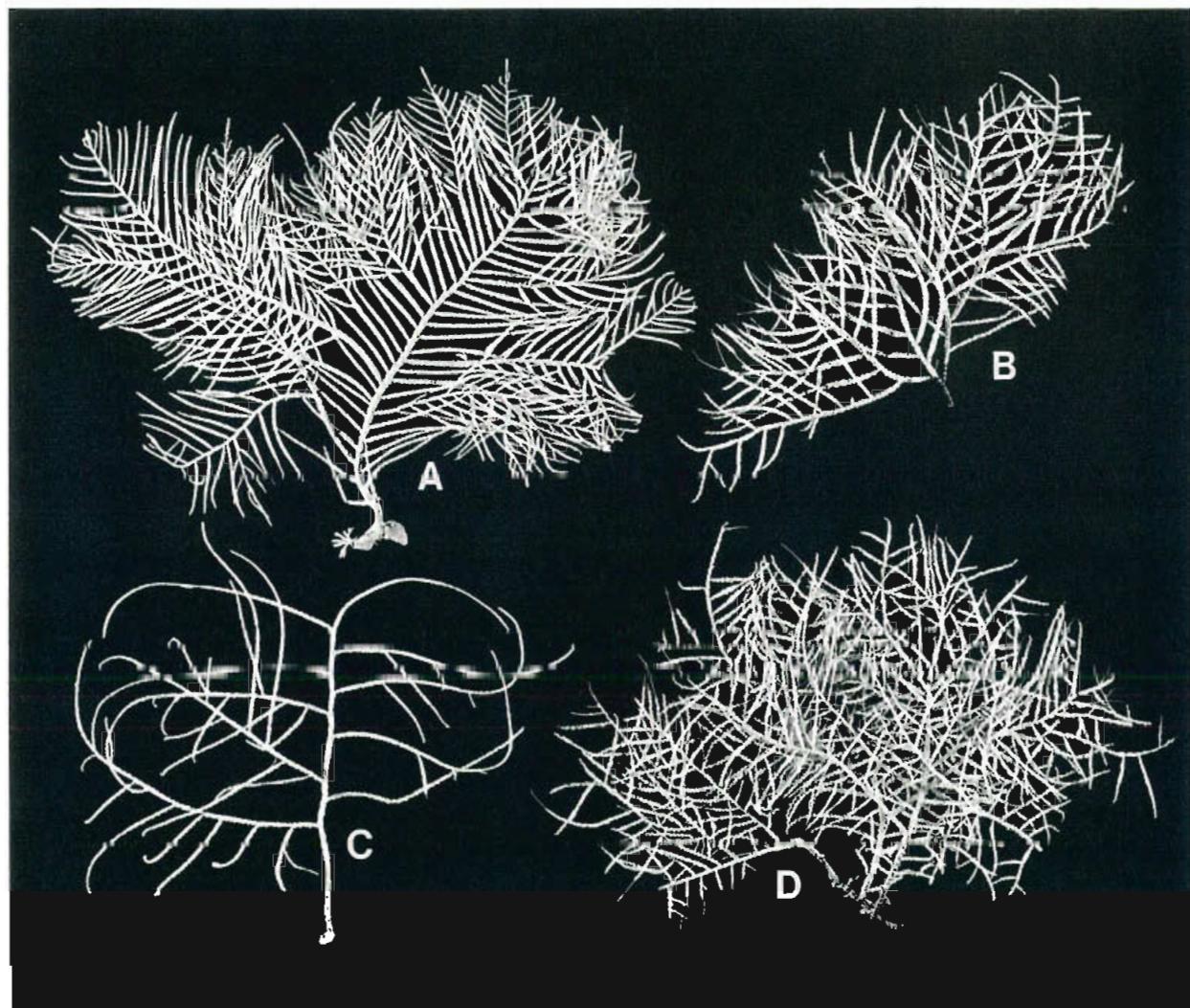


Fig. 94. *Pteronisis provocatoris* (Bayer & Stefani, 1987): A. NTM C12042; B. NTM C12044; C. NTM C12041; D. NTM C12219. All natural size $\times 0.5$.

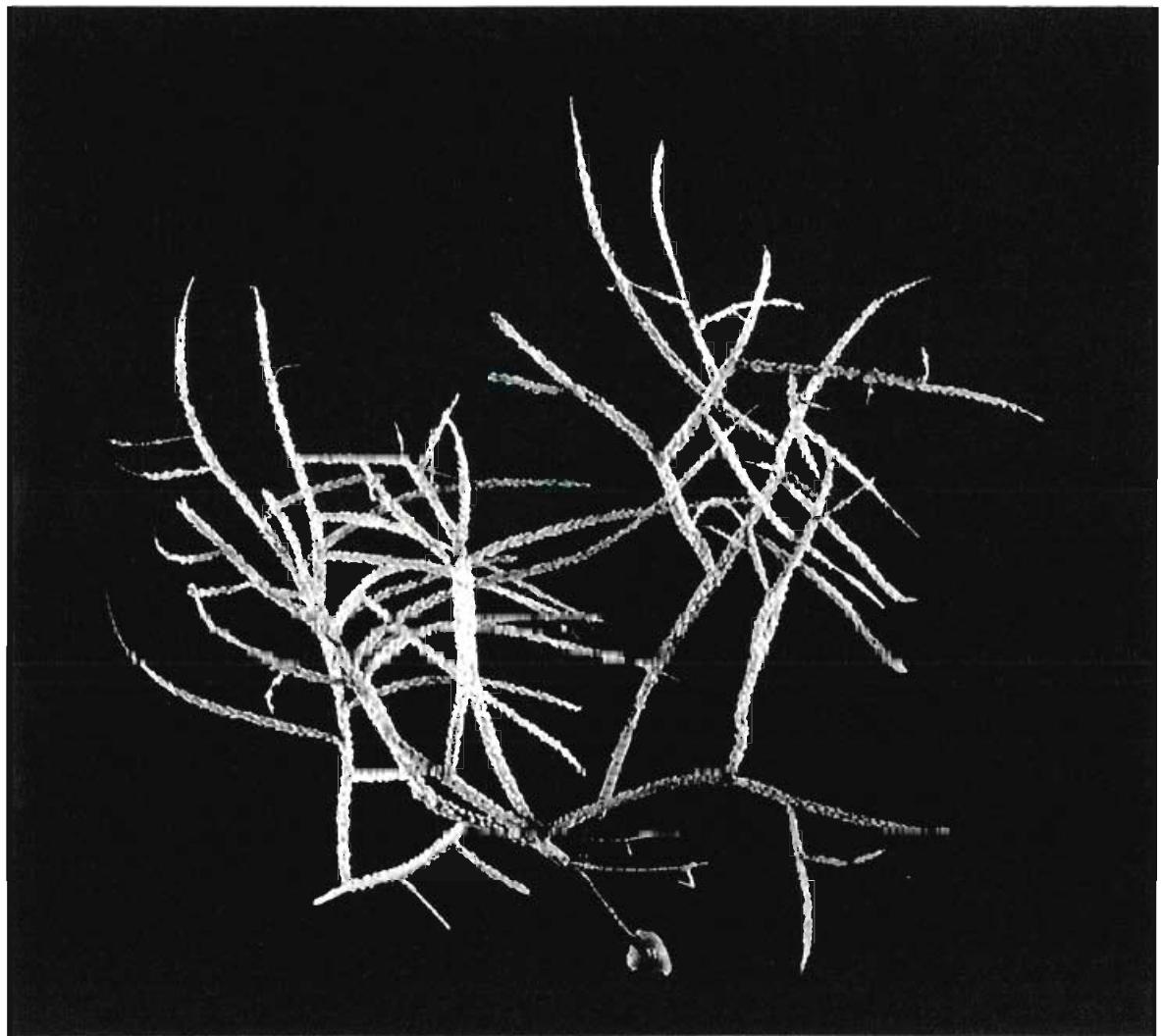


Fig. 95. *Mopsea bargibanti* Bayer & Stefani, 1987, holotype, natural size.

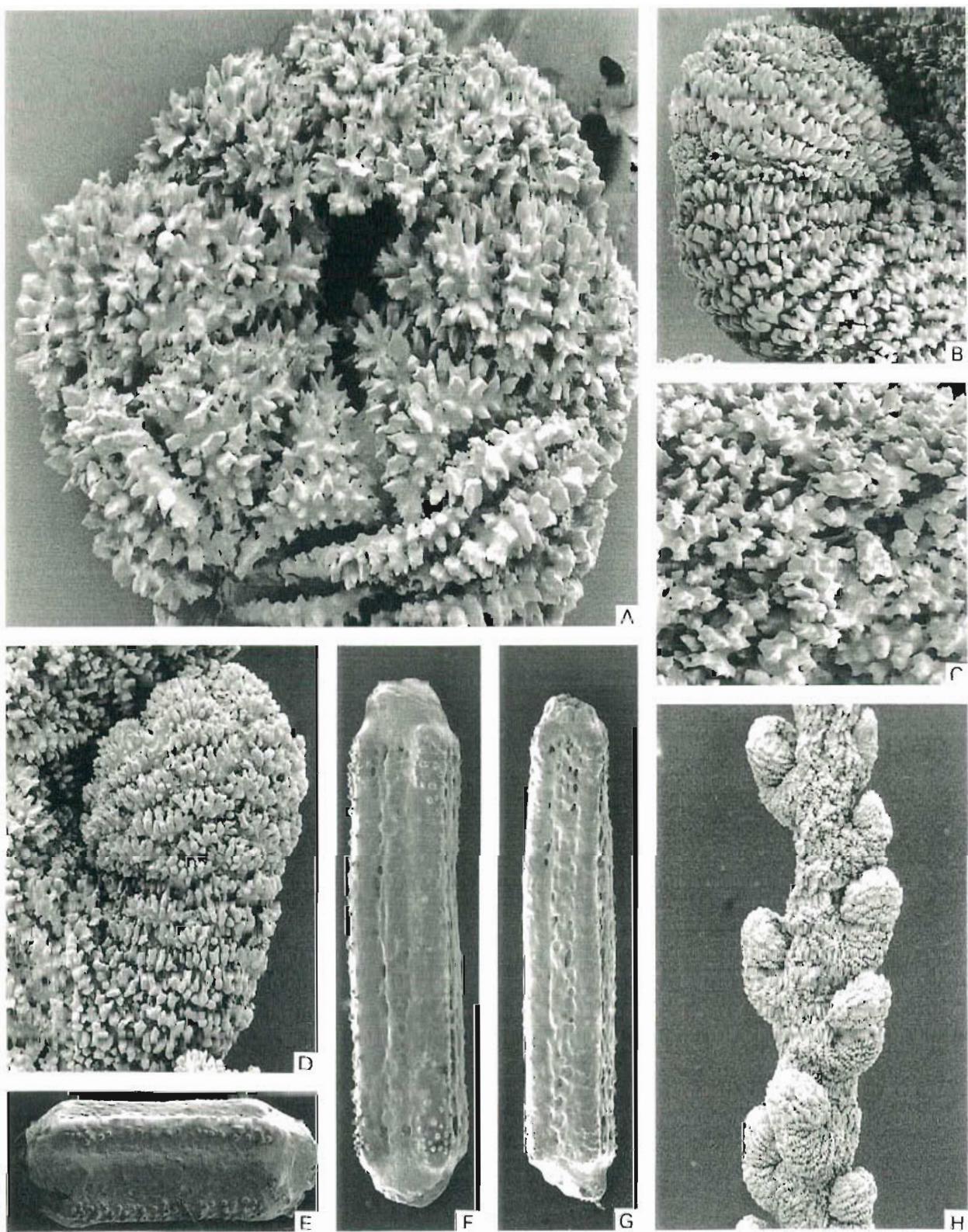


Fig. 96. *Mopsea bargibanti* Bayer & Stefani, 1987, holotype: A-B, D. Polyps; C. Coenenchyme; E-G. Axial internodes; H. Twig fragment.

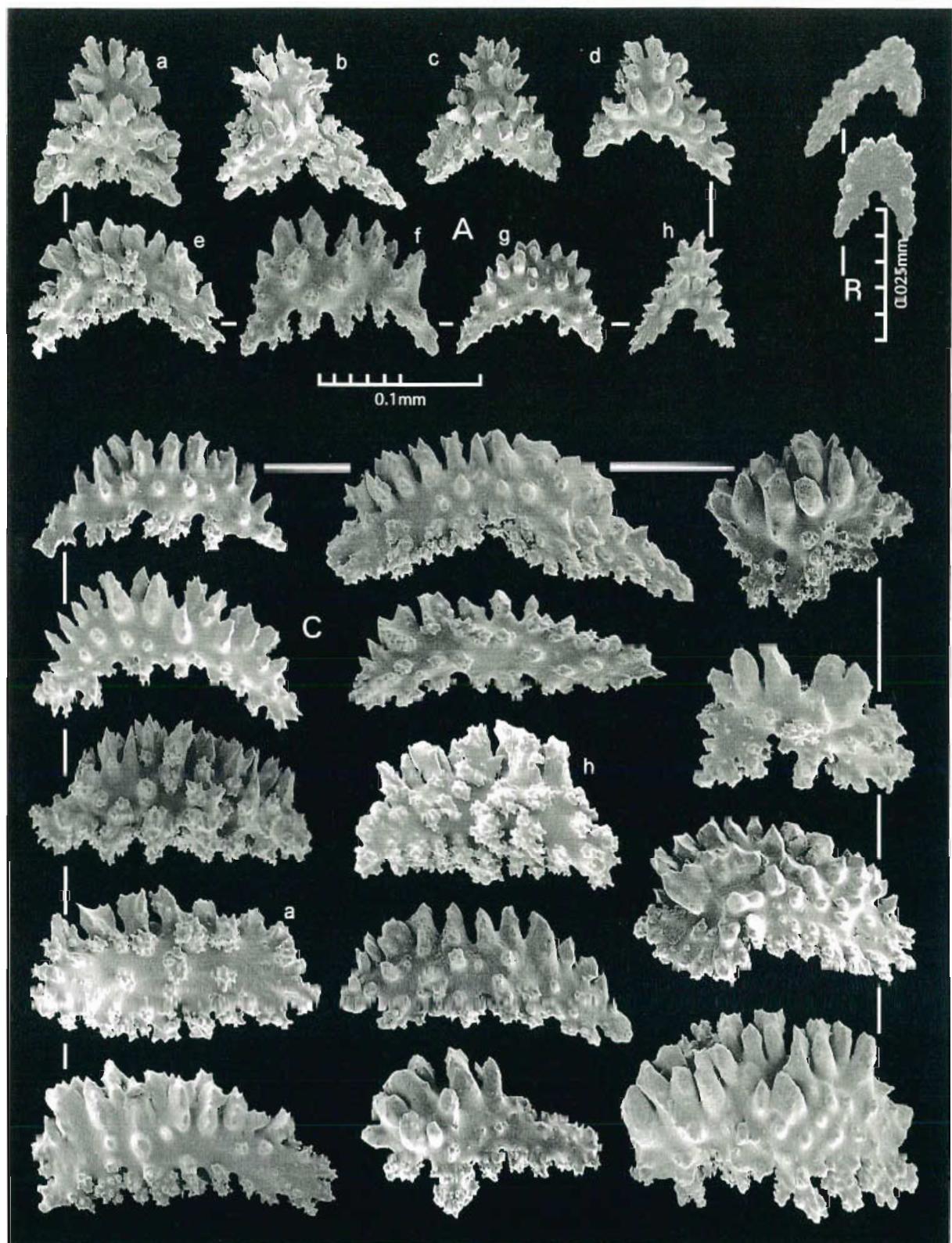


Fig. 97. *Mopsea bargibanti* Bayer & Stefani, 1987, holotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

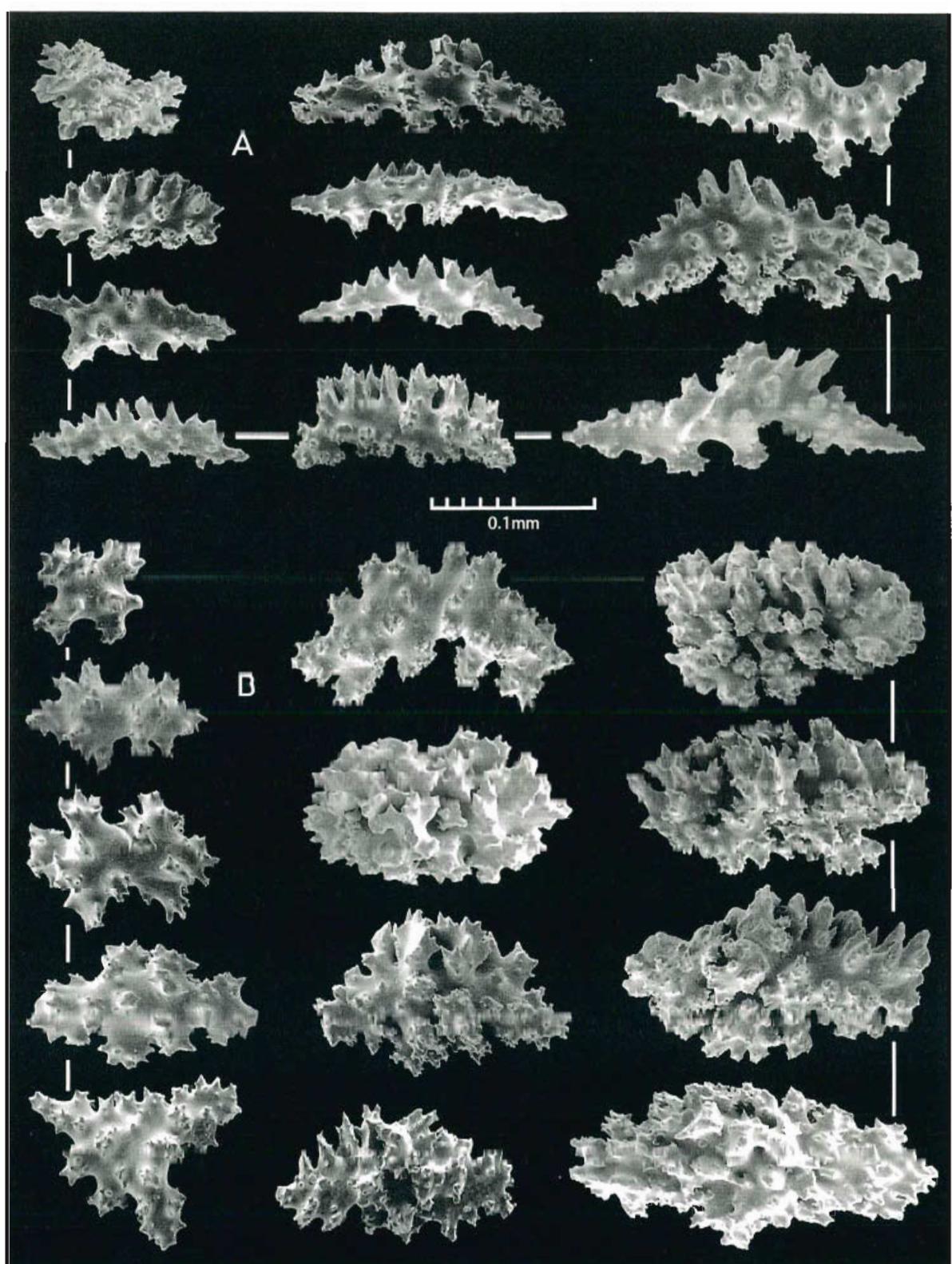


Fig. 98. *Mopsea bargibanti* Bayer & Stefani, 1987, holotype, sclerites: A. Twig coenenchyme; B. Upper stem/main-branch coenenchyme.

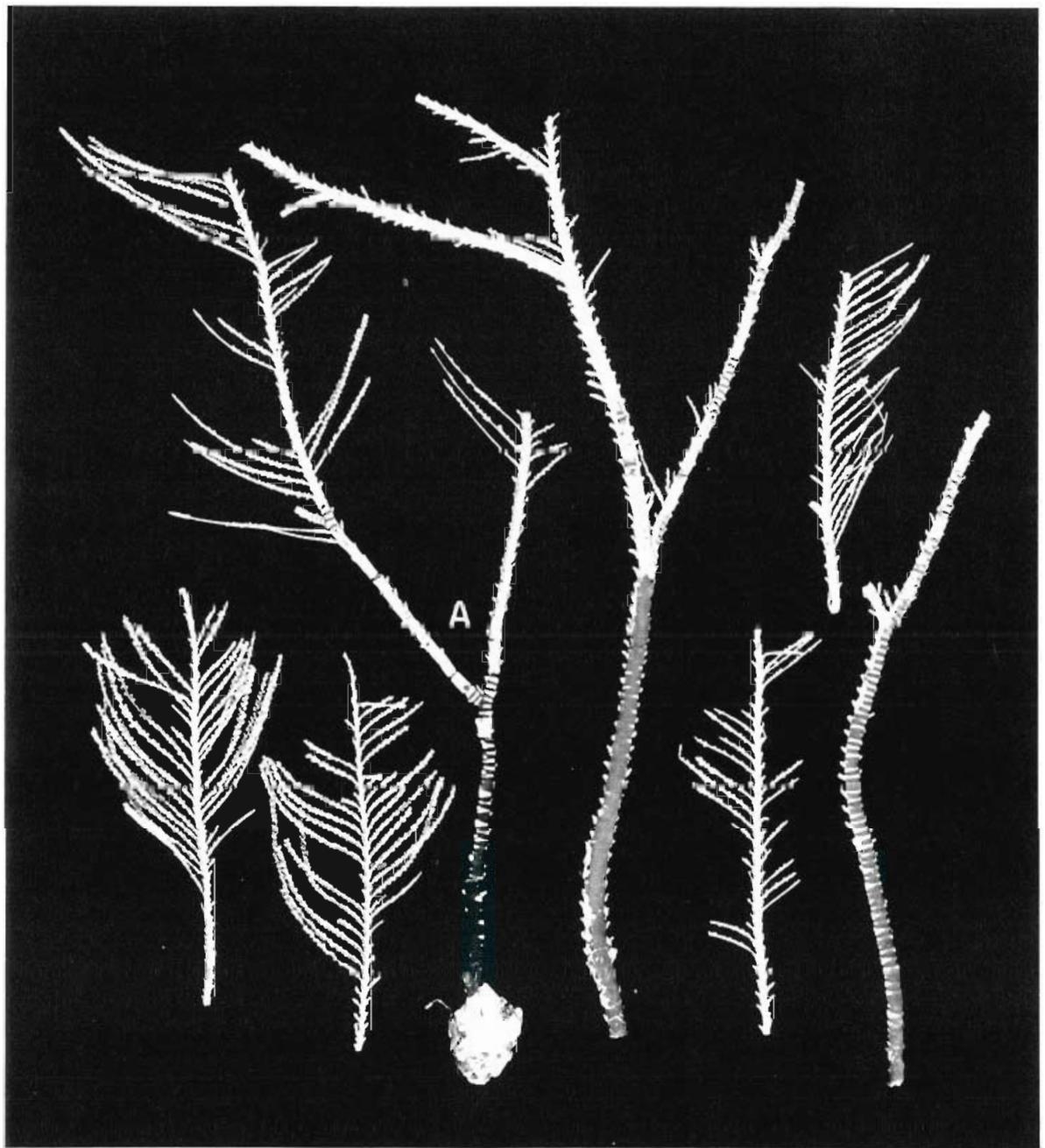


Fig. 99. *Pteronisia plumacea* (Briggs, 1915), type series: A. Portion of holotype. All natural size.

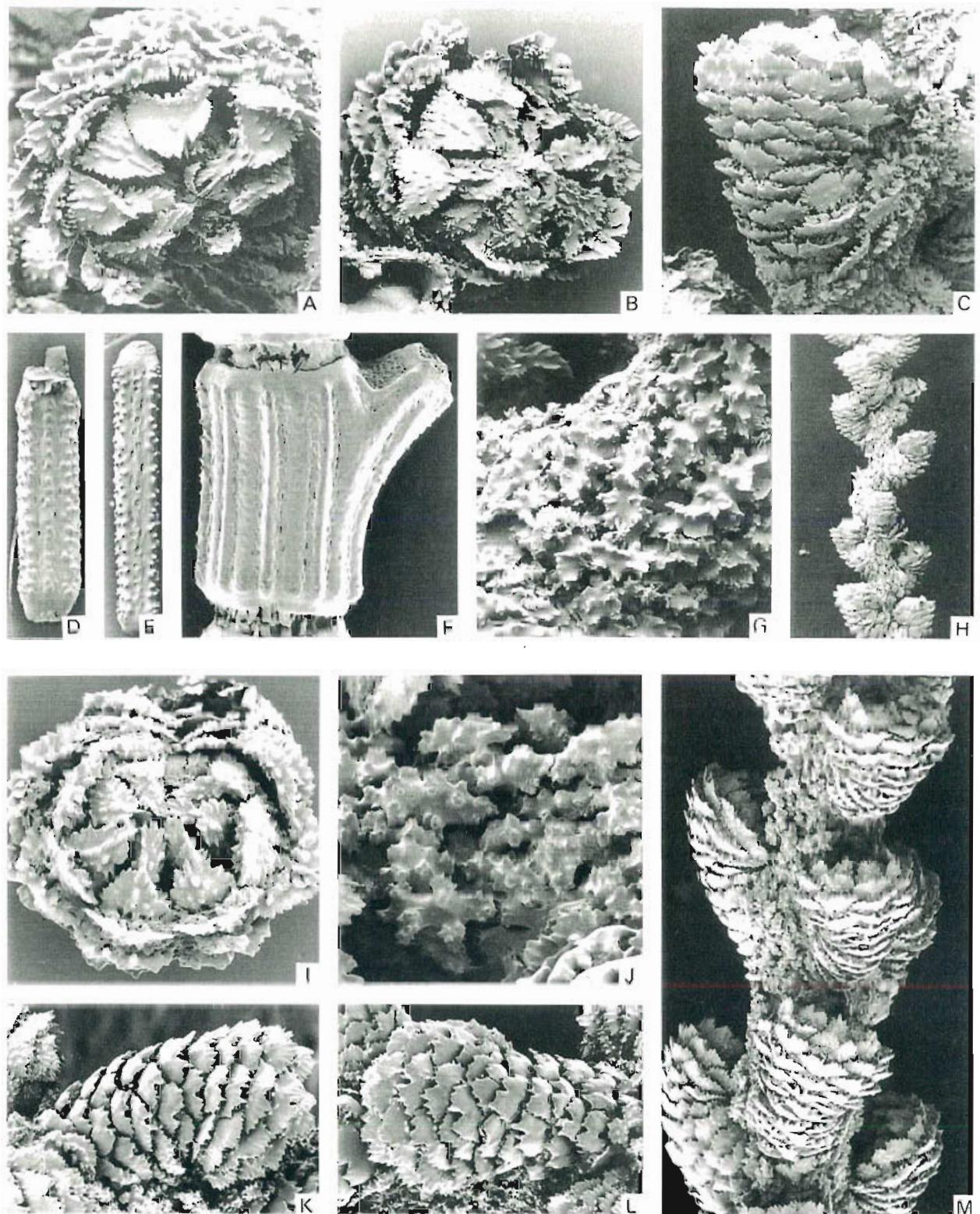


Fig. 100. *Pteronisis plumacea* (Briggs, 1915). A-H. Holotype: (A-C). Polyps; (D-F). Axial internodes; (G). Coenenchyme; (H). Twig fragment. I-M. SAM H825 (part): (I, K-L). Polyps; (J). Coenenchyme; (M). Twig fragment.

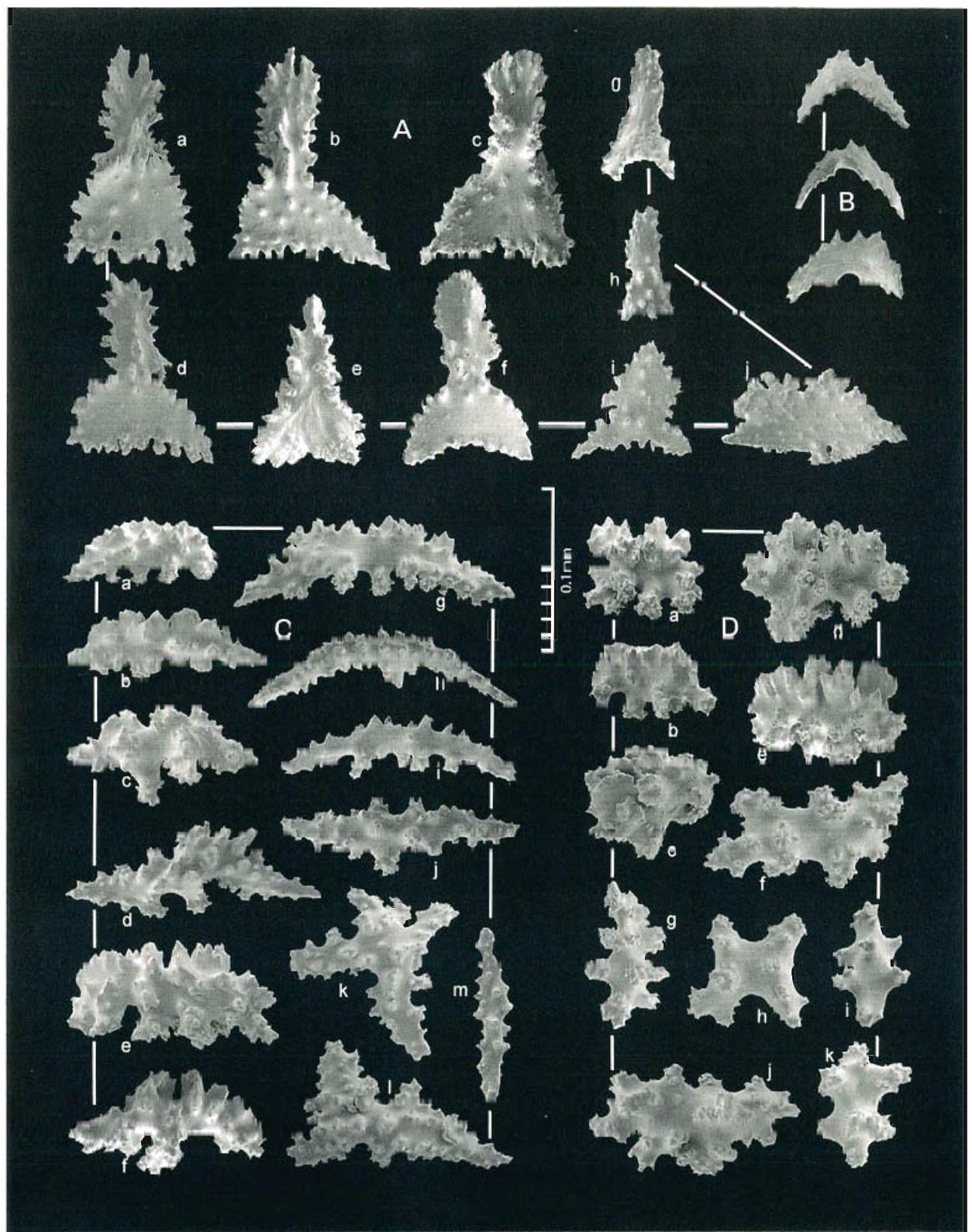


Fig. 101. *Pteronisia plumacea* (Briggs, 1915), holotype, sclerites: A. Anthopoma; B. Tentacles; C. Twig coenenchyme; D. Main branch coenenchyme.

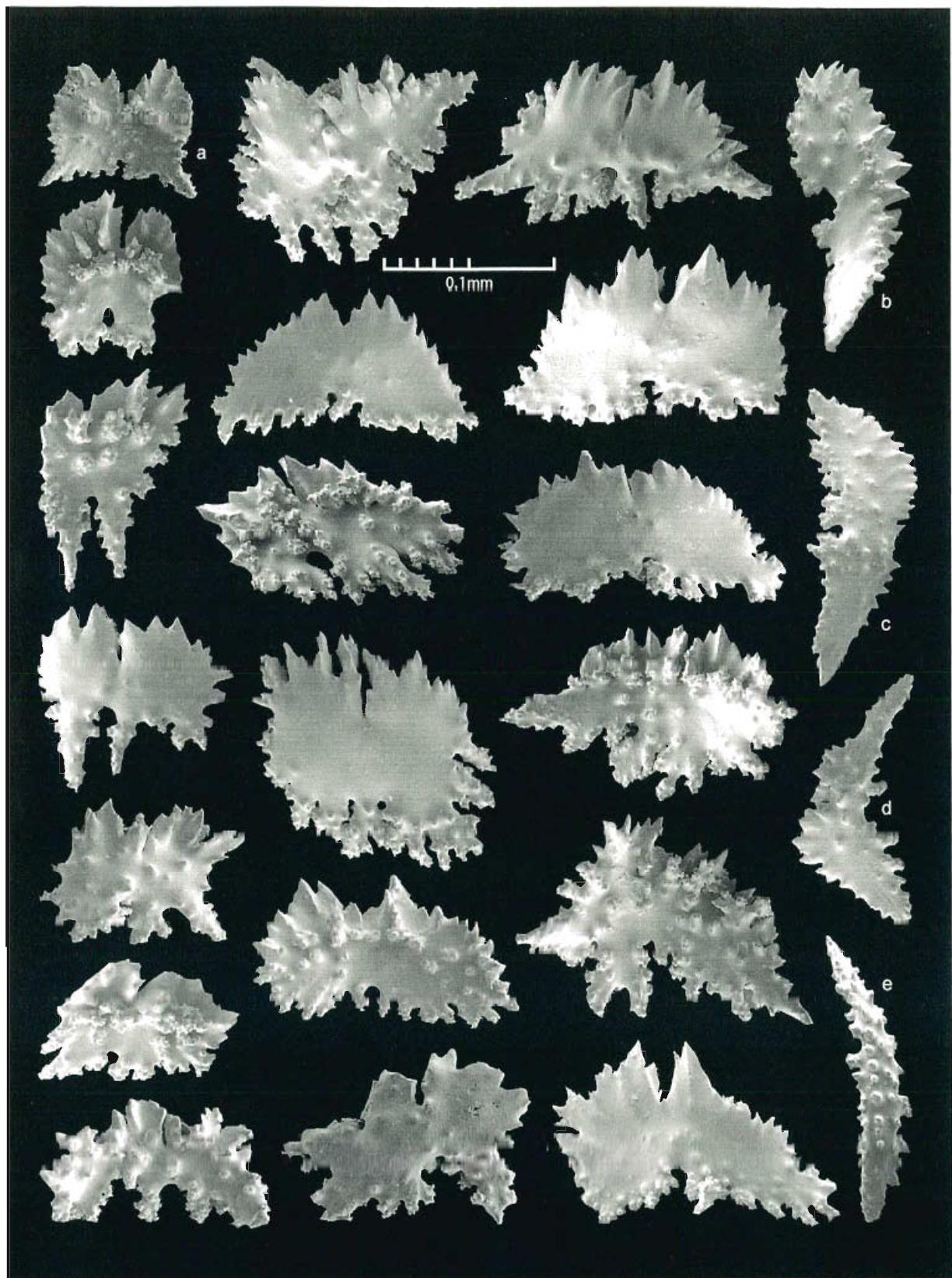


Fig. 102. *Pteronisis plumacea* (Briggs, 1915), holotype, sclerites: Polyp body.

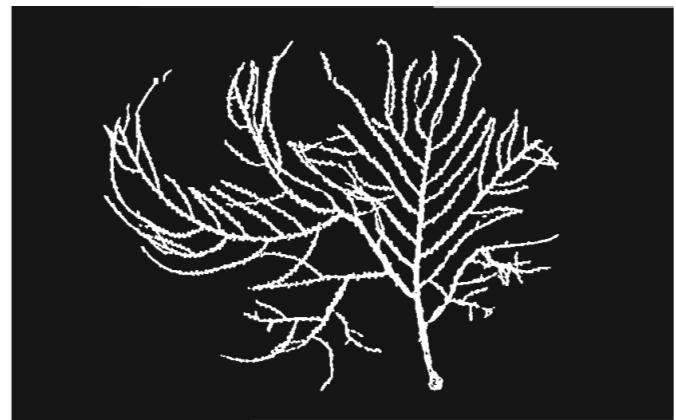


Fig. 103. *Pteronisis laboutei* (Bayer & Stefani, 1987), holotype, natural size.

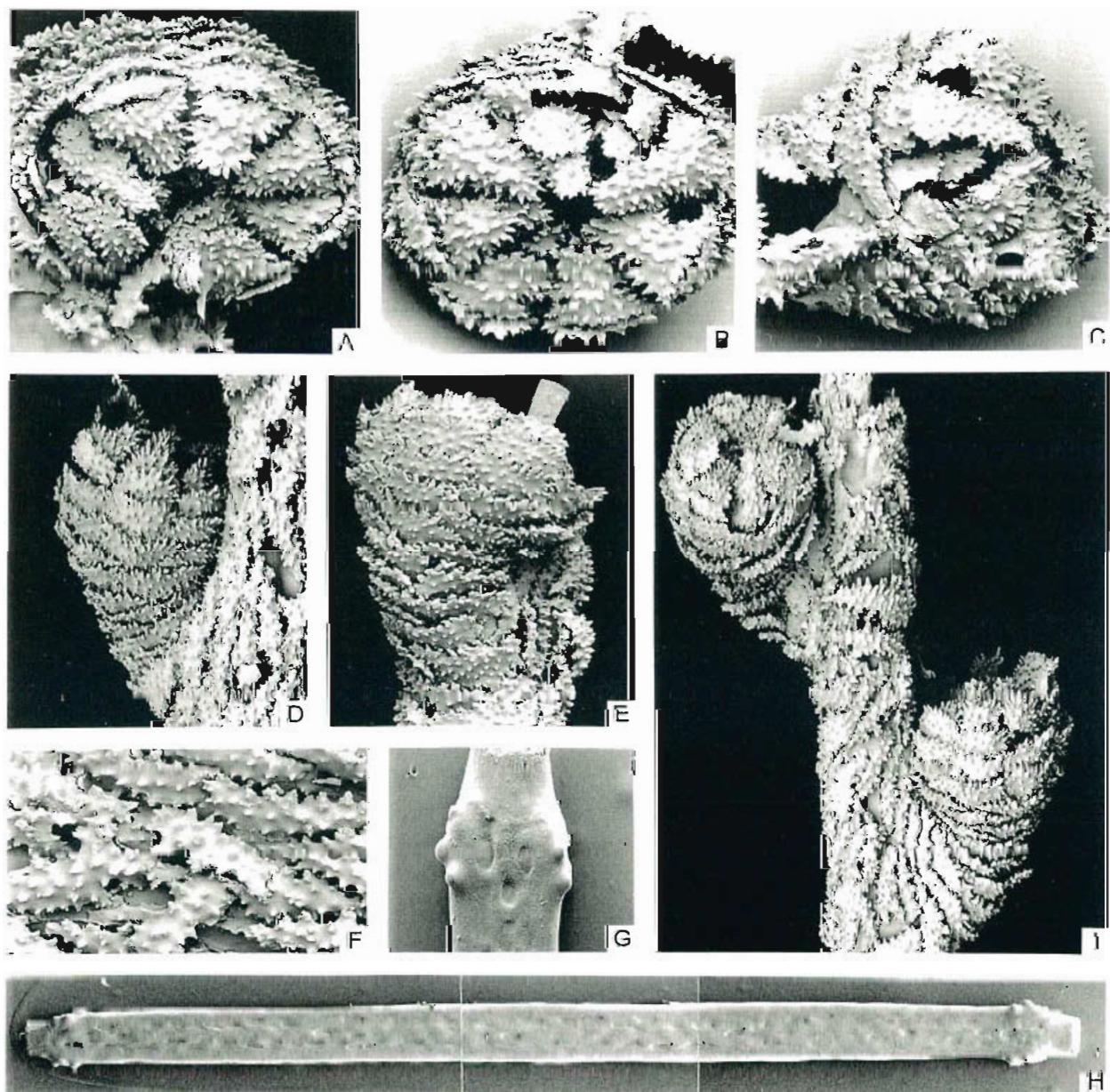
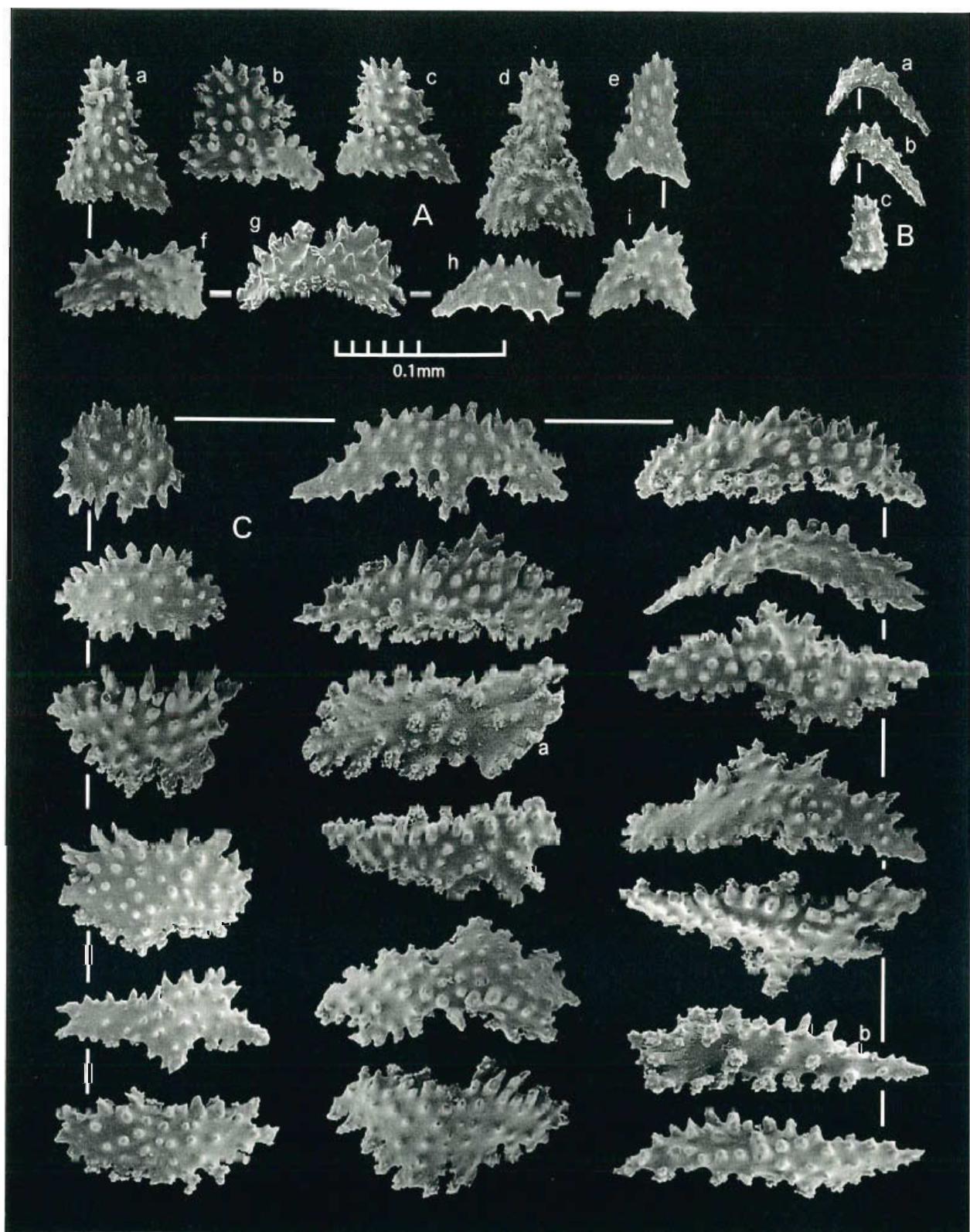


Fig. 104. *Pteronisis laboutei* (Bayer & Stefani, 1987), holotype: A-E. Polyps; F. Coenenchyme; G-H. Axial internodes; I. Twig fragment.



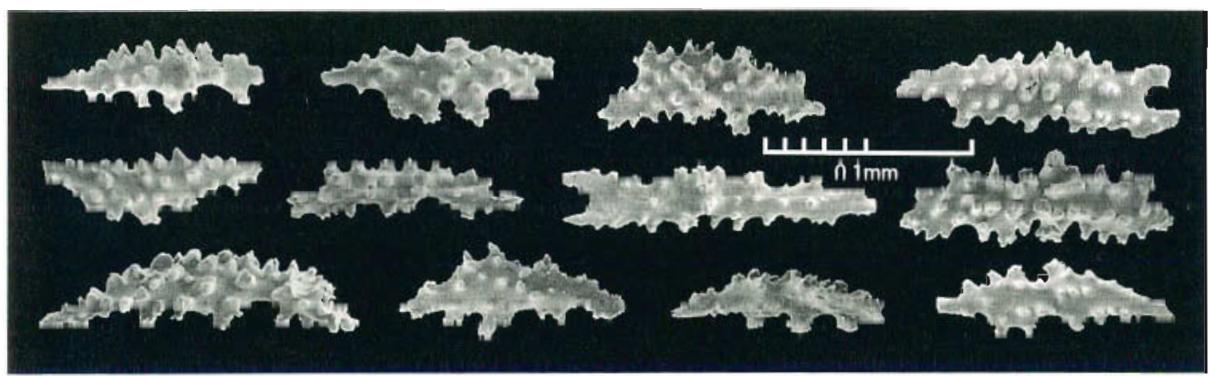


Fig. 106. *Pteronisis laboutei* (Bayer & Stefani, 1987), holotype, sclerites: Branch coenenchyme.



Fig. 107. *Pteronisis incerta* n.sp.: A. Holotype, natural size; B. AM G15307, natural size; C. AM E2242, natural size x 0.5.

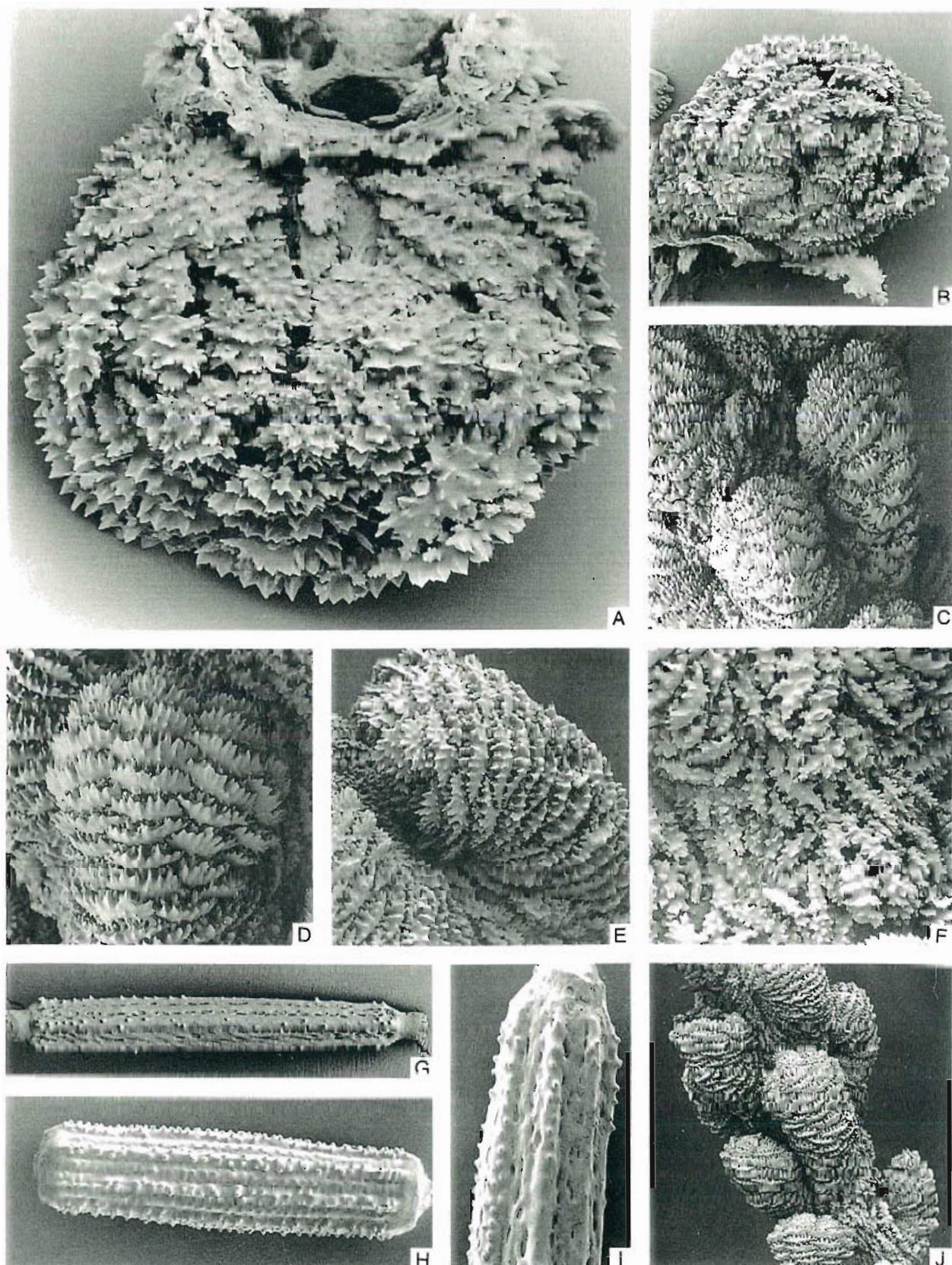


Fig. 108. *Pteronisis incerta* n.sp., holotype: A-E. Polyps; F. Coenenchyme; G-I. Axial internodes; J. Twig fragment.

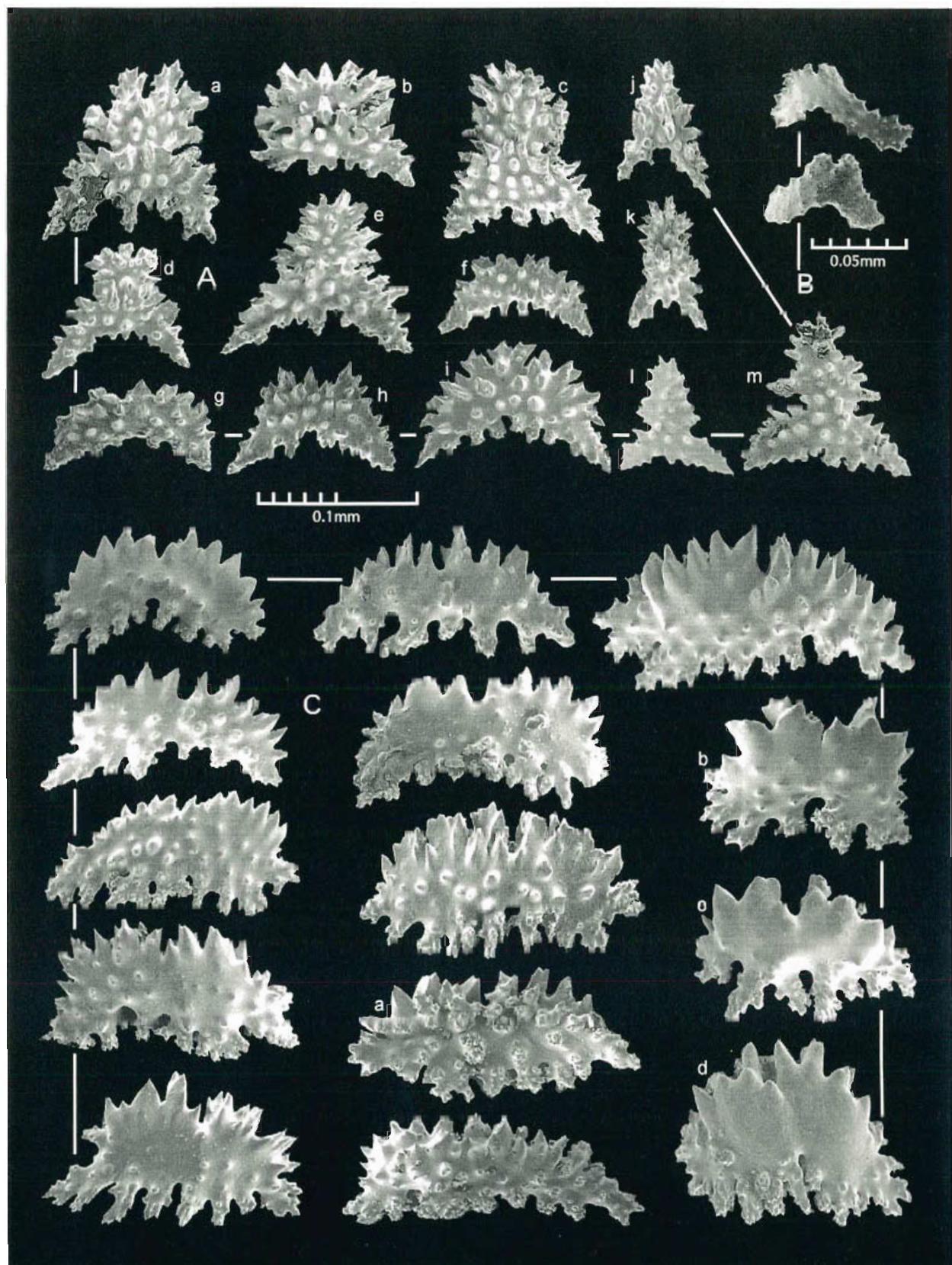


Fig. 109. *Pteronisis incerta* n.sp., holotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

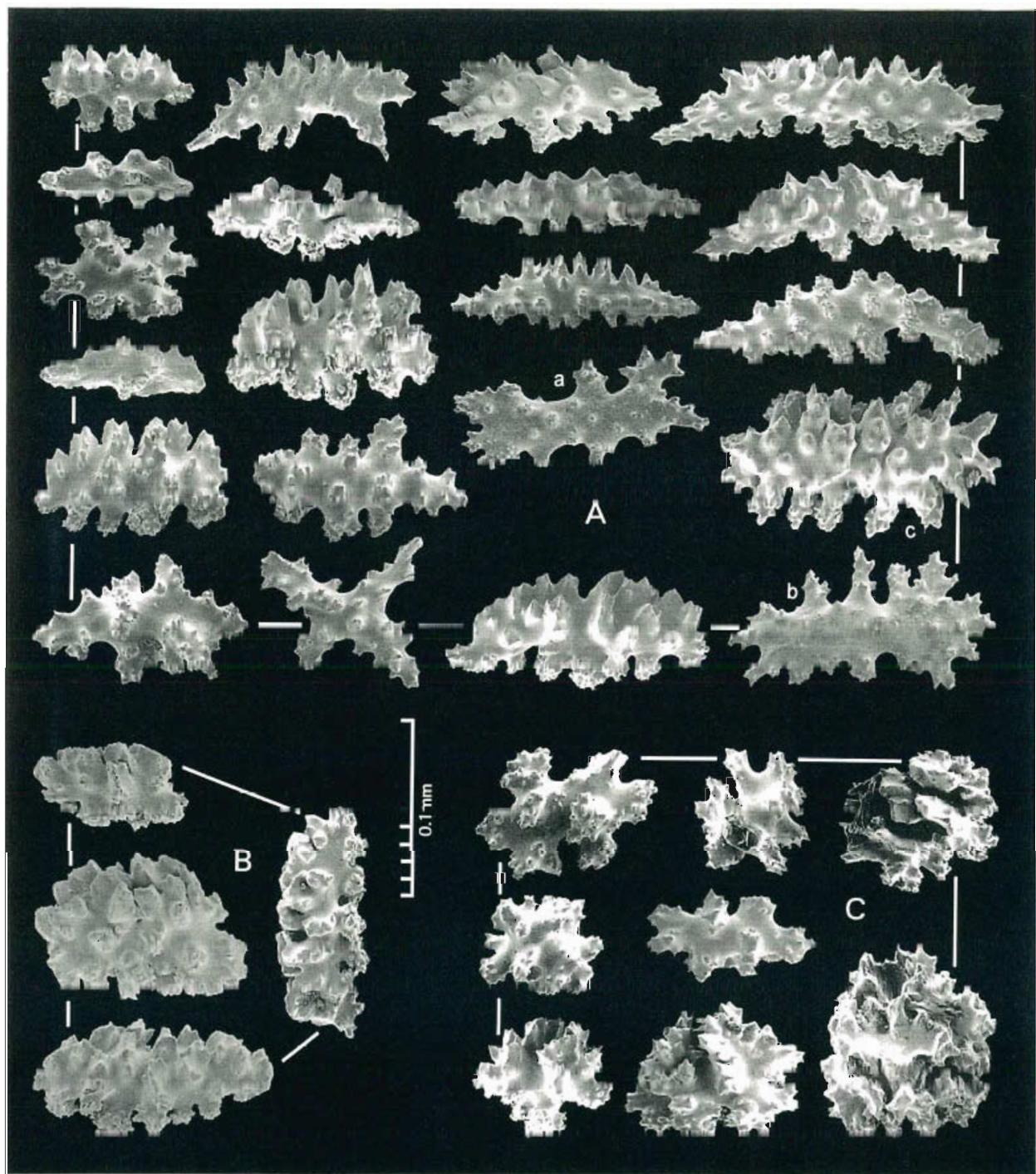


Fig. 110. *Pteronisis incerta* n.sp., holotype, sclerites: A. Twig coenenchyme; B. Principal branch coenenchyme; C. Basal stem coenenchyme.

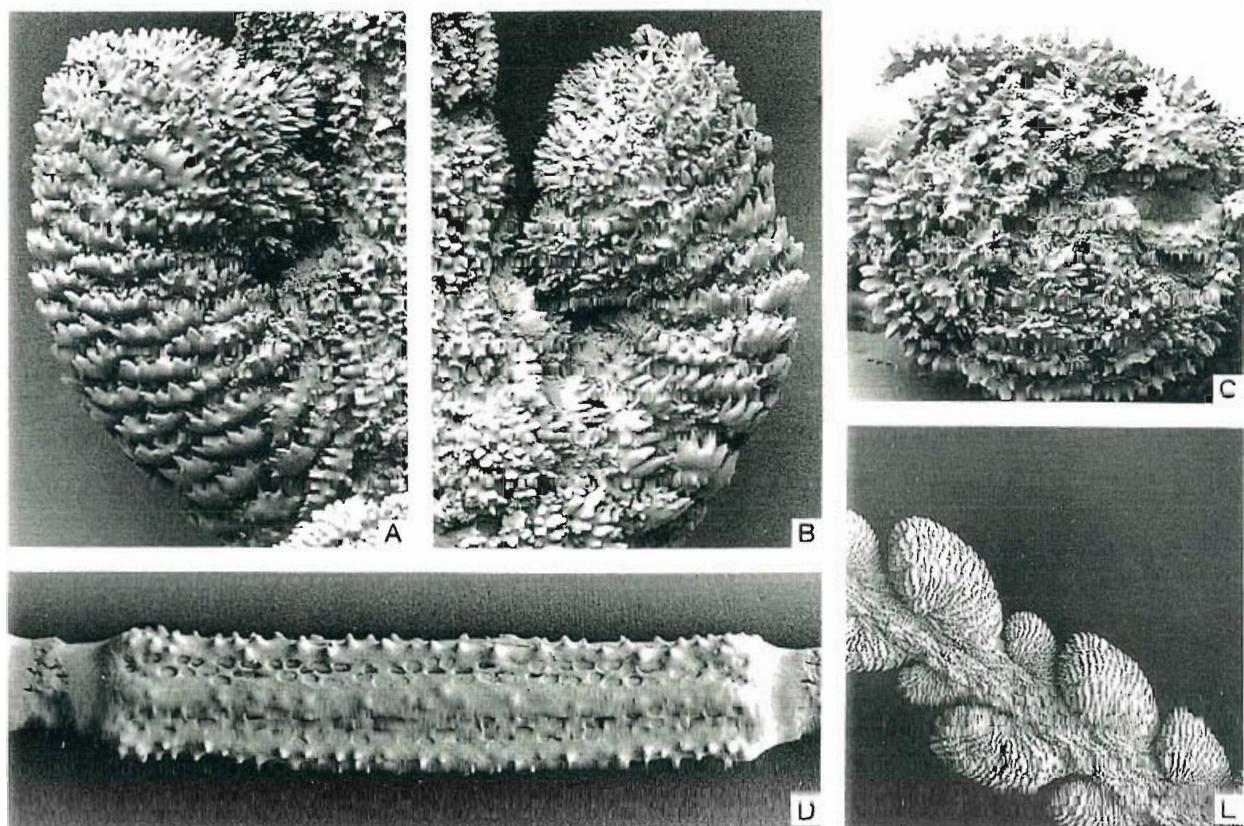


Fig. 111. *Pteronisis incerta* n.sp.: A-C. AM G15588, polyps; D-E. NTM C2471: (D). Axial internode; (E). Twig fragment.

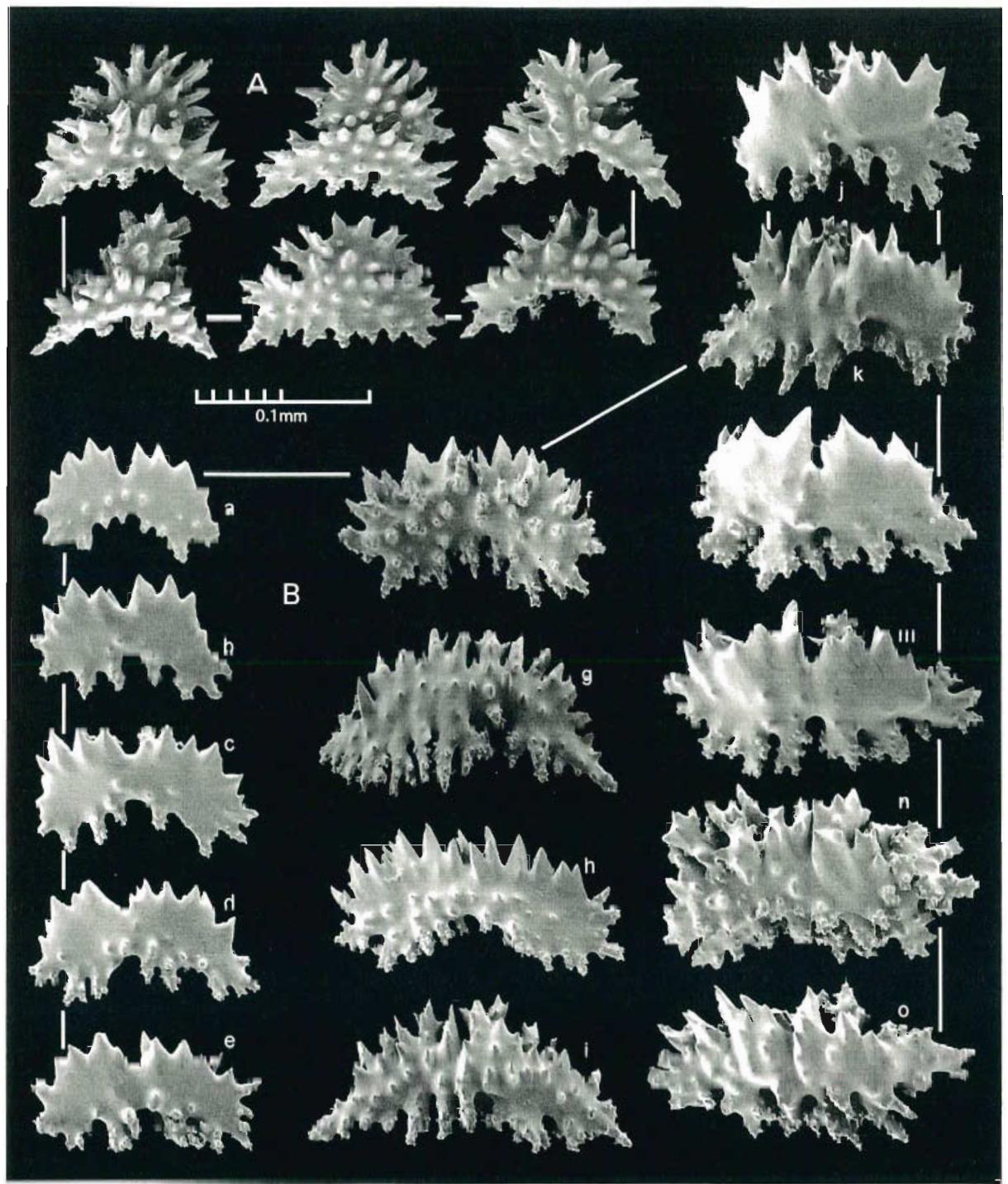


Fig. 112. *Pteronisis incerta* n.sp., AM G15299, sclerites: A. Anthopoma; B. Polyp body.

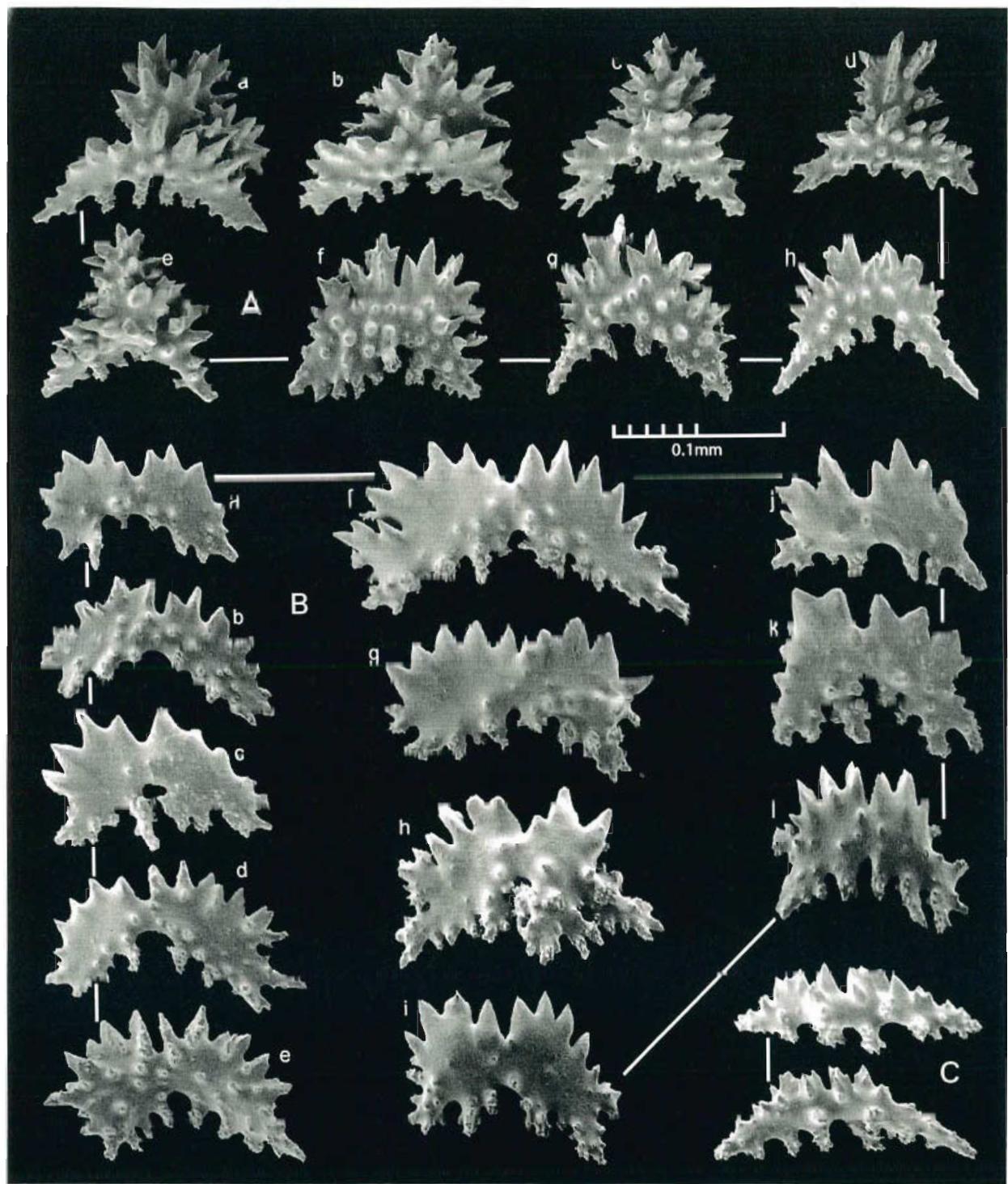


Fig. 113. *Pteronisis incerta* n.sp., AM G15307, sclerites: A. Anthopoma; B. Polyp body; C. Pinna coenenchyme.

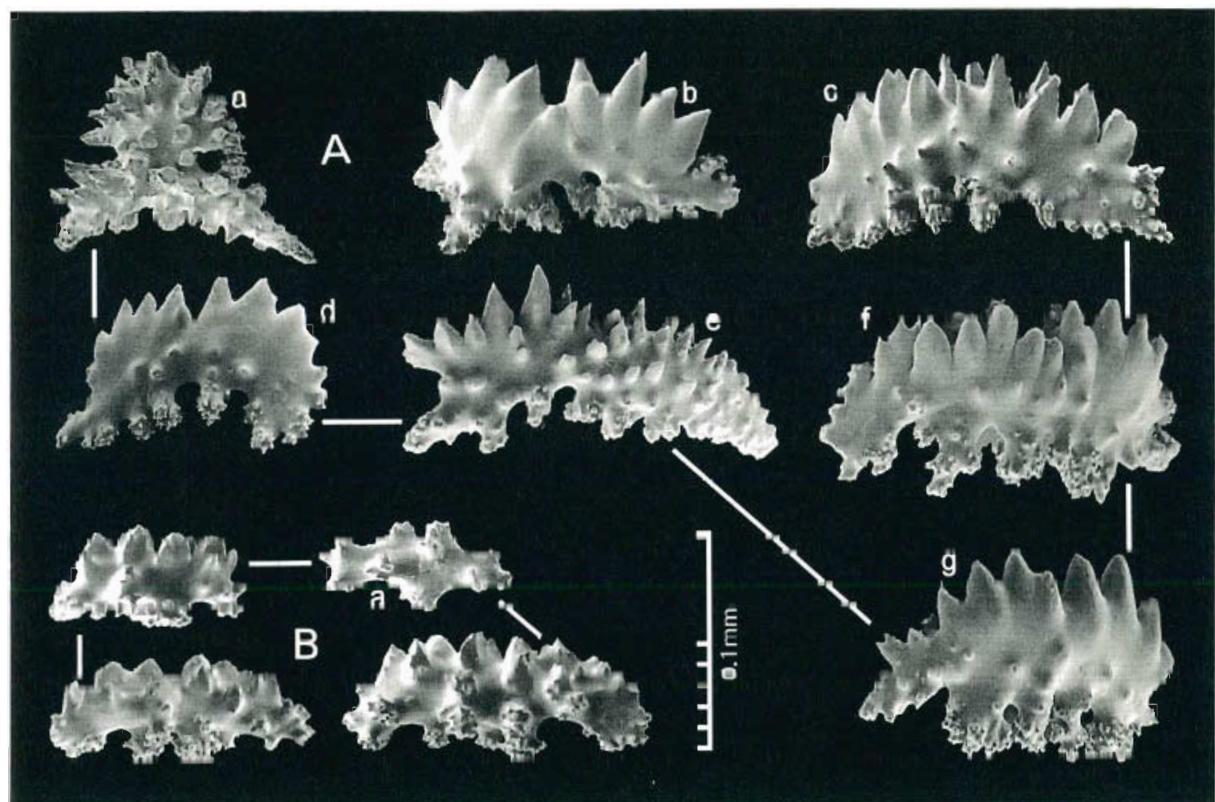


Fig. 114. *Pteronisia incerta* n.sp., AM G15588, sclerites: A. Polyp body; B. Main branch coenenchyme.

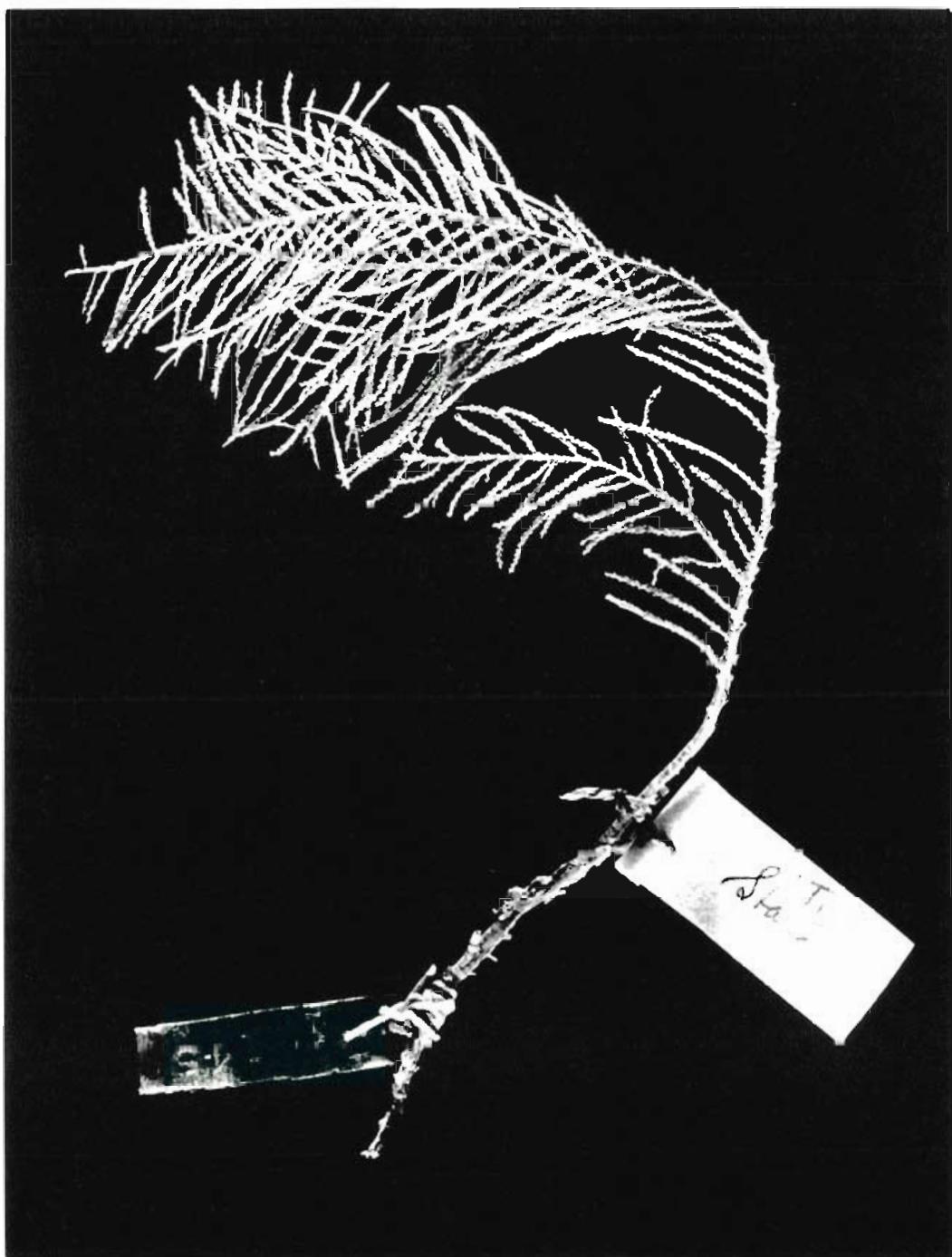


Fig. 115. *Pteronisis echinaxis* n.sp., holotype, natural size.

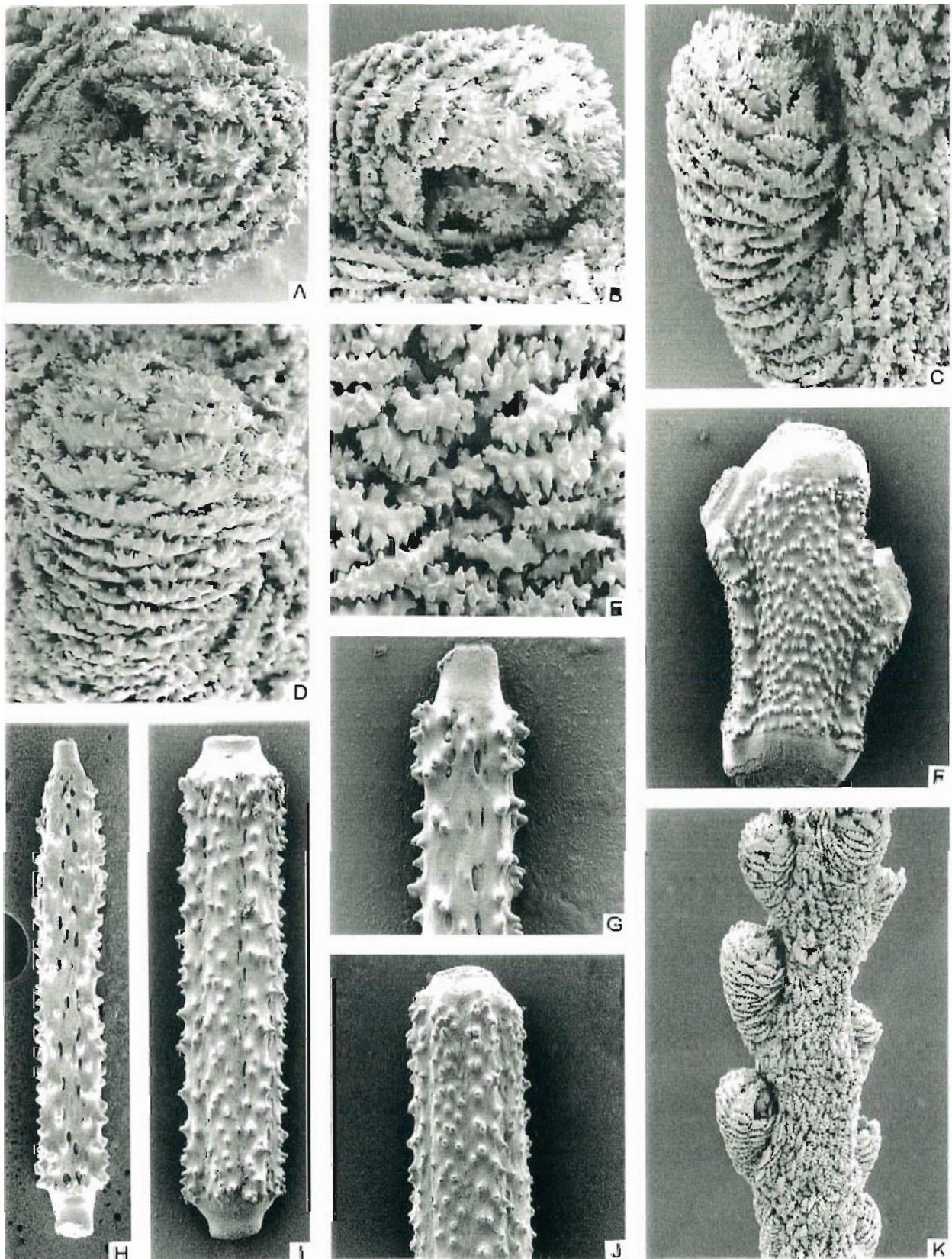


Fig. 116. *Pteronisis echinaxis* n.sp., holotype: A-D. Polyps; E. Coenenchyme; F-J. Axial internodes; K. Twig fragment.

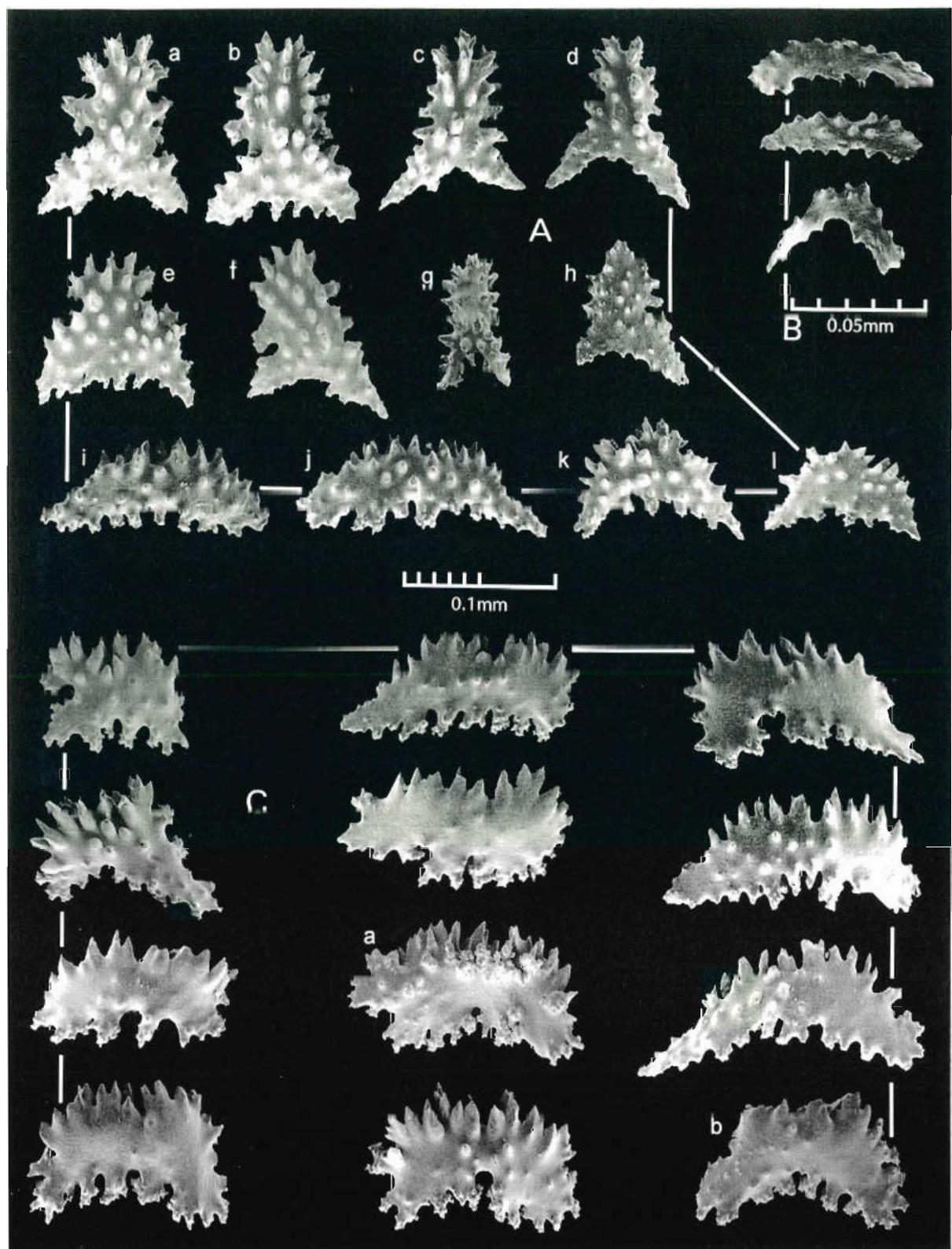


Fig. 117. *Pteronisis echinaxis* n.sp., holotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

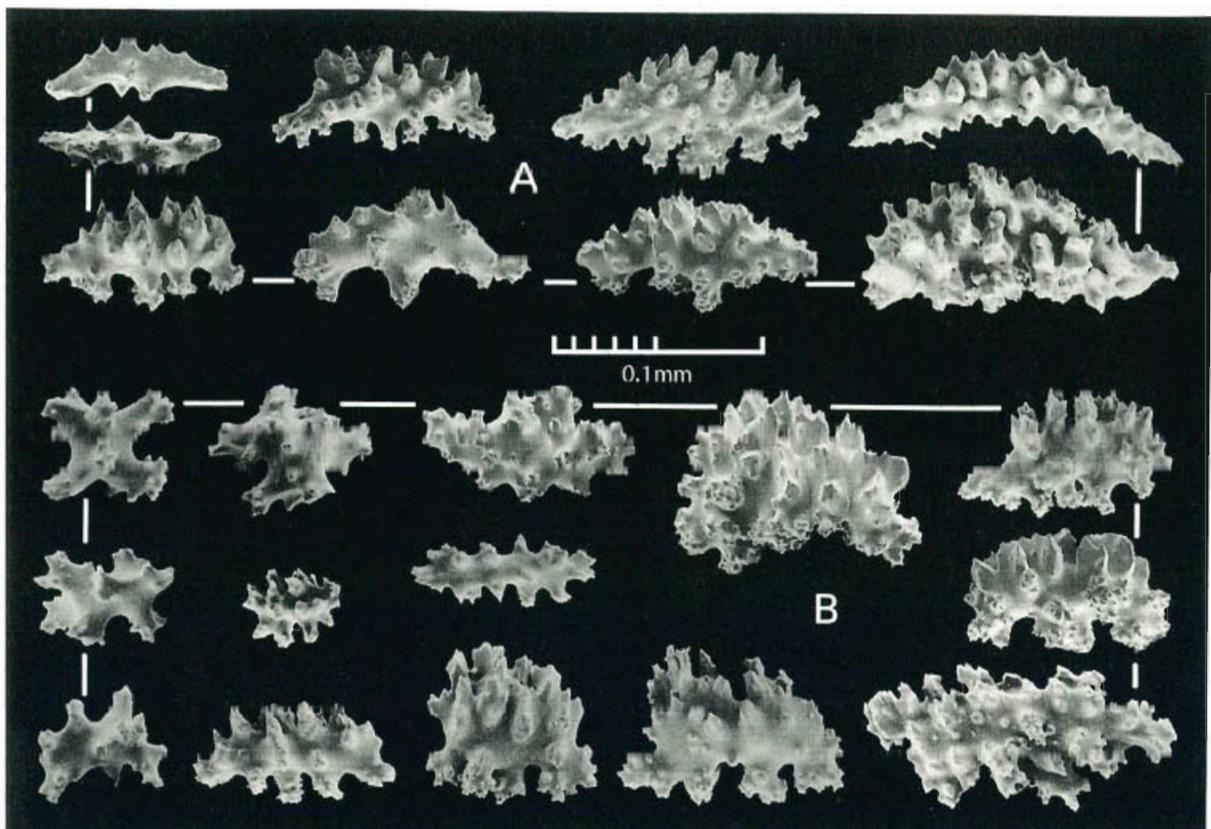


Fig. 118. *Pteronisis echinaxis* n.sp., holotype, sclerites: A. Pinna coenenchyme; B. Main branch coenenchyme.

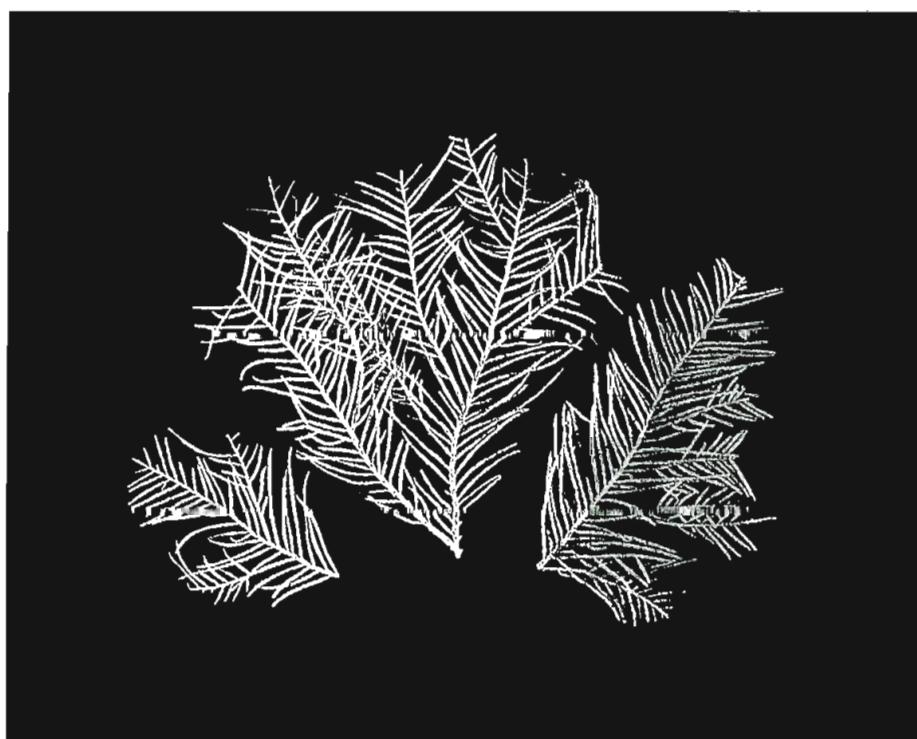


Fig. 119. *Pteronisis echinaxis* n.sp., paratype, AM G6913, natural size x 0.5.

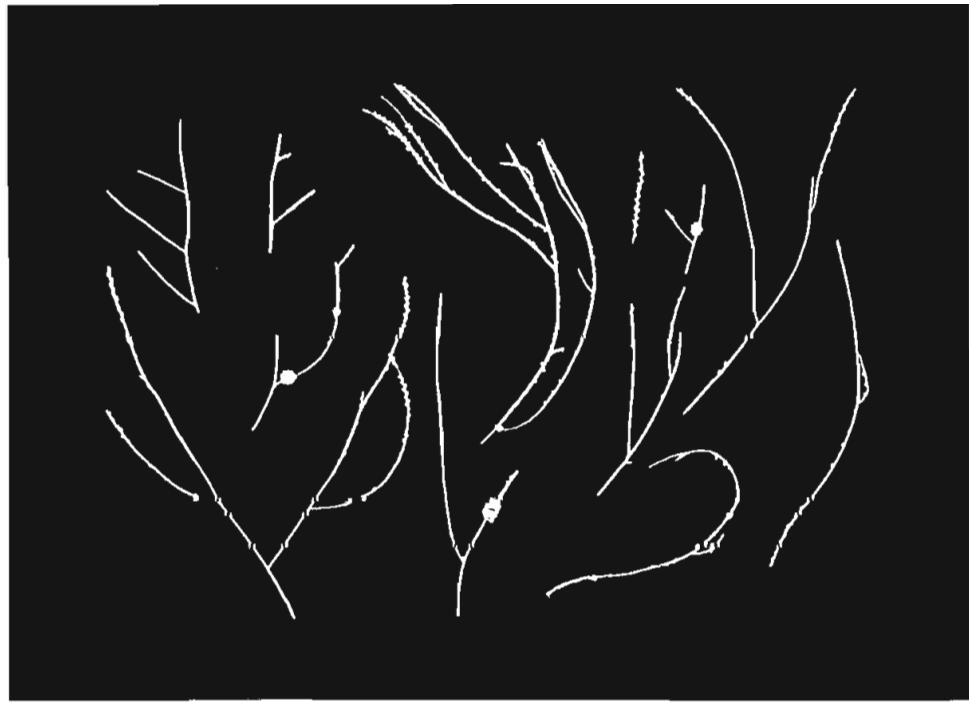


Fig. 120. *Pteronisis oliganema* n.sp., holotype, natural size.

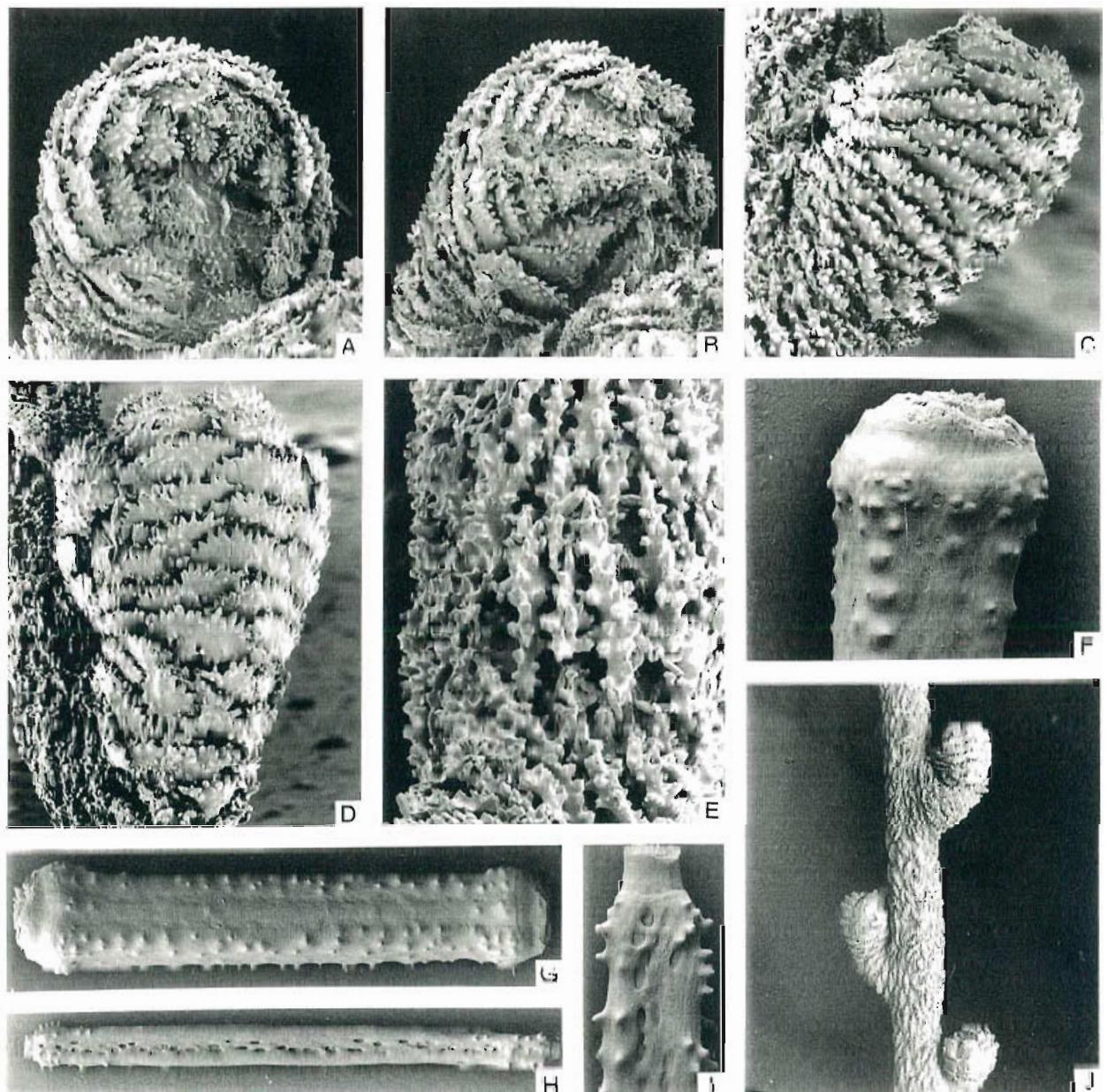


Fig. 121. *Pteronisis oliganema* n.sp., holotype: A-D. Polyps; E. Coenenchyme; F-I. Axial internodes; J. Twig fragment.

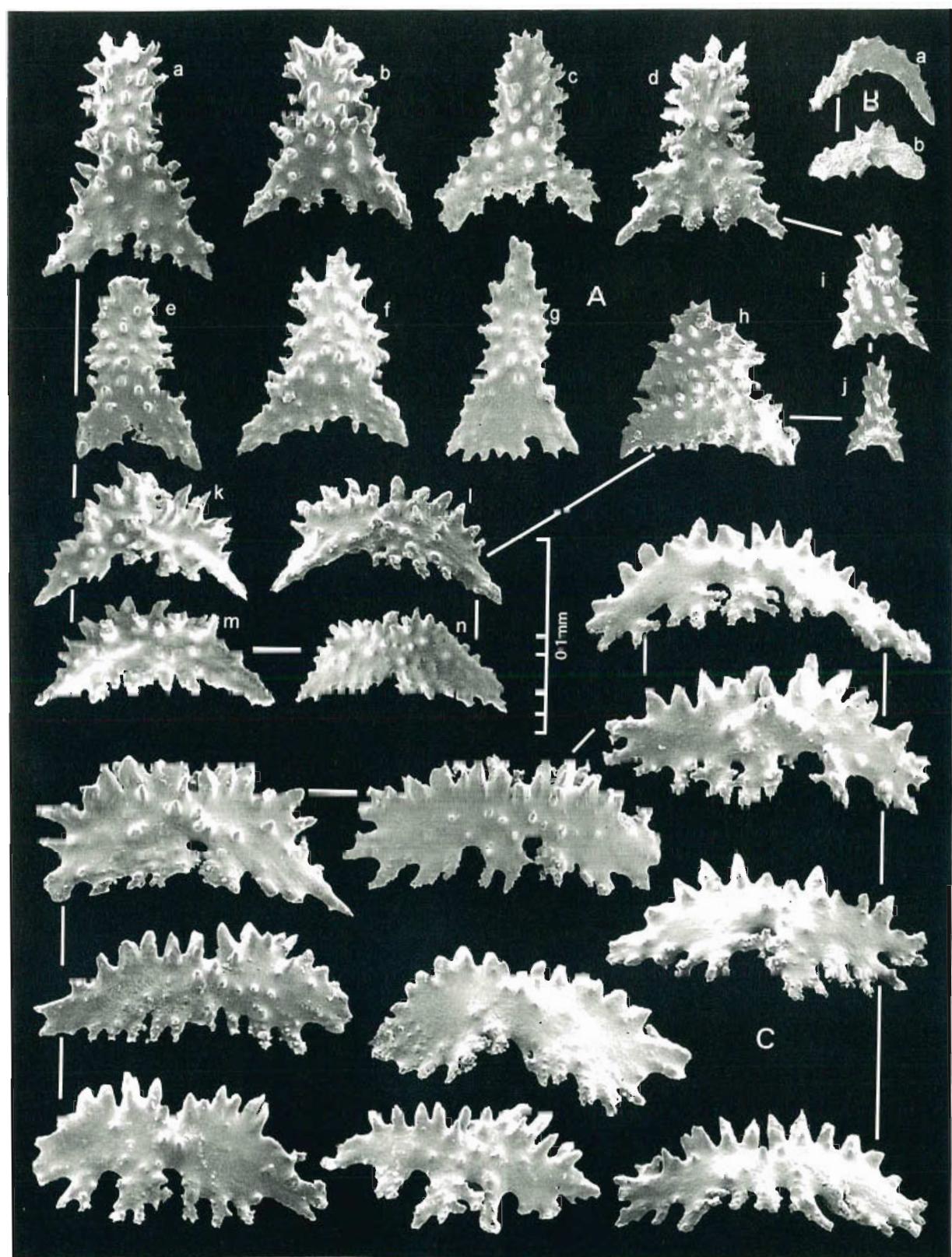


Fig. 122. *Pteronisis oliganema* n.sp., holotype, sclerites: A. Anthopoma; B. Tentacles; C. Polyp body.

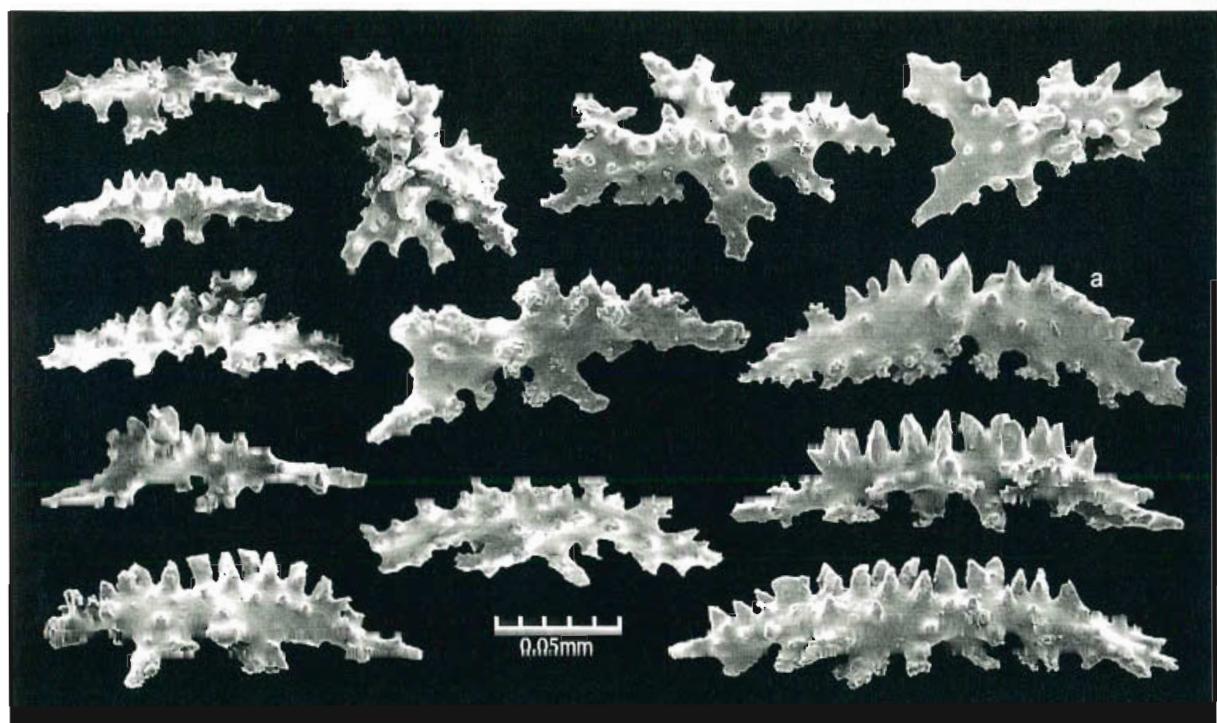


Fig. 123. *Pteronisis oliganema* n.sp., holotype, sclerites: Branch coenenchyme.