



REERENCES

- Ampornmaha, A. 1995. Triassic carbonate rocks in the Phattalung area, Peninsular Thailand. Journal of Southeast Asian Earth Science 11: 225-236.
- Blome, C. D. 1984. Upper Triassic Radiolaria and radiolarian zonation from Western North America. Bulletins American Paleontology 85: 5-88.
- Brasier, M. D. 1980. Microfossils. 2 th edition. University of Hull London: George Allen&Unwin Ltd.
- Braun, E. Von and Jordan, R. 1976. The Stratigraphy and Paleontology of the Mesozoic Sequence in The Mae Sot Area in Western Thailand. Geologisches Jahrbuch Reihe B, Heft 21: 5-51.
- Bunopas, S. 1976. Stratigraphic succession in Thailand-a preliminary summary. Journal of the Geological Society of Thailand 2: 31-58.
- Bunopas, S. 1981. Paleogeographic History of Western Thailand and Adjacent Parts of Southeast Asia-A Plate Tectonics Interpretation. Doctoral dissertation. Victoria University of Wellington, New Zealand.
- Bunopas, S. 1992. Regional stratigraphic correlation in Thailand. In C. Pianchroen (ed.), Proceedings of a National Conference of Geological Resources of Thailand: Potential for Future Development. Supplementary Volume. 189-208. Bangkok, Thailand.
- Caridroit, M. 1993. Permian radiolarian from NW Thailand. International Symposium on Biostratigraphy of Mainland Southeast Asia: Facies&Paleontology (1993): 83-96.
- Caridroit, M., Bohlke, D., Lumjuan, A., Helmcke, D., and Wever, P. D. 1993. A mixed radiolarian fauna (Permian/Triassic) from clastics of the Mae Sring area, northwestern Thailand. In T. Thanasuthipitak (ed.), International Symposium on Biostratigraphy of Mainland Southeast Asia: Facies&Paleontology (1993): 401-413.

- Chaodumrong, P. 1992. Stratigraphy, Sedimentology and Tectonic setting of Lampang Group, central north Thailand. Doctoral dissertation. University of Tasmania, Australia.
- Chaodumrong, P. 1994. Sedimentology and tectonic implication of Triassic submarine fan, Lampang, central north Thailand. In P. Angsuwathana, T. Wongwanich, W. Tansathien, S. Wongsomsak, and J. Tulyatid. (eds.). Proceedings of the International Symposium on Stratigraphic Correlation of southeast Asia (1994): 208-225.
- Chaodumrong, P., and Burrett, C. 1997. Stratigraphy of the Lampang Group in Central North Thailand. Reprinted from CCOP Technical Bulletin 26: 65-80.
- Chaodumrong, P., and Rao, P. 1992. Depositional environments of Triassic carbonates, Lampang Group, central north Thailand. In C. Piencharoen, Proceedings of a National conference on Geological Resources of Thailand (1992): 355-367.
- Charusiri, P., Chonglakmani, C., Daorerk, V., Supanathi, S., and Imsamut, S. 1994. Detailed stratigraphy of the Ban Tha Si area, Lampang, northern Thailand: Implications for paleoenvironments and tectonic history. In P., Angsuwathana, T. Wongwanich, W. Tansathien, S. Wongsomsak, and J. Tulyatid. (eds.), Proceedings of the International Symposium on Stratigraphic Correlation of SE Asia, IGCP Project 306 (1994): 306-321.
- Chonglakmani, C. 1972. Stratigraphy of the Triassic Lampang Group in Northern Thailand. Newsletter of the Geological Society of Thailand 5: 33-36.
- Chonglakmani, C. 1983. The marine Mesozoic stratigraphy of Thailand. In P. Nutalaya (ed.), Proceedings of the workshop on stratigraphic correlation of Thailand and Malaysia 105-126. Haad Yai, Thailand.
- Chonglakmani, C. 1999. The Triassic system of Thailand; implication for the paleogeography of Southeast Asia. In B Rattanasthien (ed), International symposium shallow tethys (ST) 5: 486-495.

- Chonglakmani, C., and Grant-Mackie, J.A. 1993. Biostratigraphy and facies variation of the marine Triassic sequences in Thailand. In T. Thanasuthipitak (ed.), International Symposium on Biostratigraphy of Mainland Southeast Asia : Facies&Paleontology (1993): 97-123.
- Department of Mineral Resources. 2002. Geological map of Amphoe Mae Sot and Amphoe Phop Phra. Scale 1:50,000.
- Feng, Q., Chonglakmani, C., and Helmcke, D. 2005. Correlation of Triassic stratigraphy between the Simao and Lampang-Phrae Basin: implications for the tectonopaleogeography of Southeast Asia. Journal of Southeast Asian Earth Science 24: 777-785.
- Feng Q., Chonglakmani, C., Helmcke, D., Ingavat-Helmcke, R., and Liu, B. 2002. Middle Triassic radiolarian fauna from Lamphun, Northern Thailand. The Symposium on Geology of Thailand (2002): 108-116.
- Feng Q., Helmcke, D., Chonglakmani, C., Ingavat-Helmcke, R., and Liu, B. 2004. Early Carboniferous radiolarians from North-West Thailand. Paleogeographical implications. Paleontology 47: 377-393.
- Feng, Q., Malila, K., Wongsanan, N., Chonglakmani, C., Helmcke, D., Ingavat-Helmcke, R., and Caridroit, M. 2005. Permian and Triassic Radiolaria from Northwest Thailand. Paleogeographical implications. Revue de micropaleontology 48: 237-255.
- Grant-Mackie, J.A., Sawata, H., Arpornsuwan, S., Arrykul, S., Chutais, V., and Punggrassami, T. 1980. Some Triassic and associated strata of southern Thailand. Prince of Songkhla University Geological Research Project 5: 1-85.
- Hada, S., Bunopas, S., Ishii, K., and Yoshikura, S. 1997. Riff-drift history and the amalgamation of Shan-Thai and Indochina/East Malaya Blocks. In P. Dheeradilok, C. Hinthong, P. Chaodumrong, P. Putthaphiban, W. Tansathien, C. Utha-aroon, N. Sattarak, T. Nuchanong, and S. Techawan (eds.), Proceedings of the International Conference on Stratigraphy and Tectonic Evolution of Southeast Asia and the South Pacific (Geothai'97) (1997): 273-286.

- Isozaki, Y. 1997. Permo-Triassic boundary superanoxia and stratified superocean: Records from lost deep sea. Science 276: 235-238.
- Kamata, Y., Sashida, K., Ueno, K., Hisada, K., Nakomsri, N., and Charusiri, P. 2002. Triassic radiolarian faunas from the Mae Sariang area, northern Thailand and their paleogeographic significance. Journal Southeast Asian Earth Science 20 : 491-506.
- Kemper, E., Maronde, H. D., and Stoppel, D. 1976. Triassic and Jurassic limestone in the region northwest and West Si Sawat (Kanchanaburi Province, west Thailand). Geologisches Jahrbuch B21: 93-127.
- Kling, S. 1980. Introduction to Marine Micropaleontology. 2 th edition. Edited by Bilal U.Haq & Anne Boersma. New York: Oxford University Press.
- Kozur, H., and Mostler, H., 1994. Anisian to Middle Carnian radiolarian zonation and description of some stratigraphically important radiolarians. Geologisch-Paläontologische Mitteilungen Innsbruck, Sonderband 3: 39-199.
- Matsuda, T., and Isozaki, Y. 1991. Well documented travel history of Mesozoic pelagic chert in Japan: from remote ocean to subduction zone. Tectonics 10: 475-499.
- McRoberts, C. A. 2000. A primitive *Halobia* (Bivalve: *Halobioidea*) from the Triassic of Northeast British Columbia. Journal Paleontology 74: 599-603.
- Meesook, A., Teerarungsigul, N., and Saengsrirachan, W. 2005. Mesozoic stratigraphy and faunal aspects of Thailand. Bureau of Geological Survey Department of Mineral Resources. Bangkok, Thailand.
- Meesook, A., Suteethorn, V., Chaodumrong, P., Teerarungsigul, N., Sardud, A., and Wongprayoon, T. 2002. Mesozoic Rocks of Thailand: A Summary. The Symposium on Geology of Thailand (2002): 82-94.
- Metcalf, I. 1988. Origin and assembly of South-East Asian continental terrance. In: Audley-Charles, M. G. and Hallam, A., Eds., *Gondwana and Tethys*, 101-118, New York: Geological Society of London Special Publication, 37 Oxford University Press.

- Pessagno Jr., E. A., Finch, W., and Abbott, P., 1979. Upper Triassic Radiolaria from the San Hiolito Formation, Baja California. Micropaleontology 25: 160–197.
- Piyasin, S. 1971. Marine Triassic sediments of Northern Thailand. Newsletter of the Geological Society of Thailand 4: 12-20.
- Sashida, K., and Igo, H. 1999. Occurrence and tectonic significance of Paleozoic and Mesozoic Radiolaria in Thailand and Malaysia. Gondwana Dispersion and Asian Accretion IGCP 32 I Final Results Volume (1999): 174-197.
- Sashida, K., and Nakornsi, N. 1997. Lower Permian faunas from the Khanu Chert Formation distributed in the Sukhothai area, northern central Thailand. Proceedings of the International Conference on Stratigraphy and Tectonic Evolution of Southeast Asia and the South Pacific (1997), 101-108.
- Sashida, K., and Salyapongse, S. 2002. Permian radiolarian fauna from Thailand and their paleogeographic significance. Journal Southeast Asian Earth Science 20: 691-701.
- Sashida, K., Salyapongse, S., and Charusiri, P. 2002. Lower Carboniferous radiolarian fauna from the Saba Yoi-Kabang Area, southernmost part of peninsular Thailand. Micropaleontology 48: 129-143.
- Sashida, K., Salyapongse, S., and Nakornsri, N. 2000. Latest Permian radiolarian fauna from Klaeng, eastern Thailand. Micropaleontology 46: 245-263.
- Sashida, K., Ueno, K., Nakornsri, N., and Sardud, A. 1998. Early Carboniferous radiolarians from Na Thawi, southern peninsular Thailand, Palaeontological Society of Japan Meeting 147: 1-24.
- Sashida, K., Ueno, K., Nakornsri, N., and Sardud, A. 1999. Lithofacies and biofacies of the Klong Kon Limestone, southern Peninsular Thailand. In: Ratanasthin, B., Ried, S.L. (Eds.). Proceedings of the International Symposium on Shallow Tethys 5: 228-241.
- Sashida, K., Kamata, Y., Adachi, S., and Munasri. 1999. Middle Triassic radiolarians from West Timor, Indonesia. Journal of Paleontology 73 (5): 765–786.

- Sashida, K., Igo, H., Hisada, K., Nakomsri, N., and Ampornmaha, A. 1993. Occurrence of Paleozoic and Early Mesozoic Radiolaria in Thailand (preliminary report). Journal Southeast Asian Earth Science 8: 97-108.
- Selly, R. 1996. Ancient Sedimentary Environments and their sub-surface diagnosis. 4 th edition. London: Chapman and Hall.
- Srinak, N. 2002. Lithostratigraphy of som Triassic Clastic Rocks in Southern Part of Amphoe Muang Mae Hong Son, Changwat Mae Hong Son, Northwest Thailand. Master's Thesis. Department of Geology, Faculty of Science, Chulalongkorn University.
- Sugiyama, K., 1997. Triassic and Lower Jurassic radiolarian biostratigraphy in the siliceous claystone and bedded chert units of the southeastern Mino Terrane, Central Japan. Bulletin of the Mizunami Fossil Museum 24: 79-193.
- Suzuki, 1993. The *Canoptum* Assemblage (Radiolaria) from the Umenoki Unit (the Northern Chichibu Belt) in the Kamikatsu town area, Tokushima Prefecture, Southwest Japan. New of Osaka Micropaleontologists 9: 109-117.
- Tekin, U.K., 1999. Biostratigraphy and systematic of late Middle to Late Triassic radiolarians from the Taurus Mountains and Ankara region, Turkey. Geologisch-Palaeontologische Mitteilungen Innsbruck, Sonderband 5: 1-296.
- Tofke, T., Lumjuan, A., and Kelmcke, D. 1993. Triassic syn-orogenic siliciclastics from the area of Mae Sariang (northwestern Thailand). In T. Thanasuthipitak (ed.), International Symposium on Biostratigraphy of Mainland Southeast Asia : Facies&Paleontology (1993): 391-400.
- Ueno, K. 1999. Gondwana/Tethys divide in East Asia: solution from Late Paleozoic foraminiferal paleobiogeography. In: Ratanasthien, B. and Rieb, S. L., Eds., Proceedings of the International Symposium on Shallow Tethys (ST) 5: 45-54.
- Walker, R. G., and James, N. P. 1992. Facies Models: response to sea level change. 1 th edition. Canada: Memorial University of Newfoundland.

- Wonganan, N., and Caridroit, M. 2005. Middle and Upper Devonian radiolarian faunas from Chiang Dao area, Chiang Mai province, northern Thailand. Micropaleontology 51: 39-58.
- Yao, A., 1982. Middle Triassic to Early Jurassic radiolarians from the Inuyama Area, Central Japan. Journal Geosciences, Osaka City University 25: 53-70.

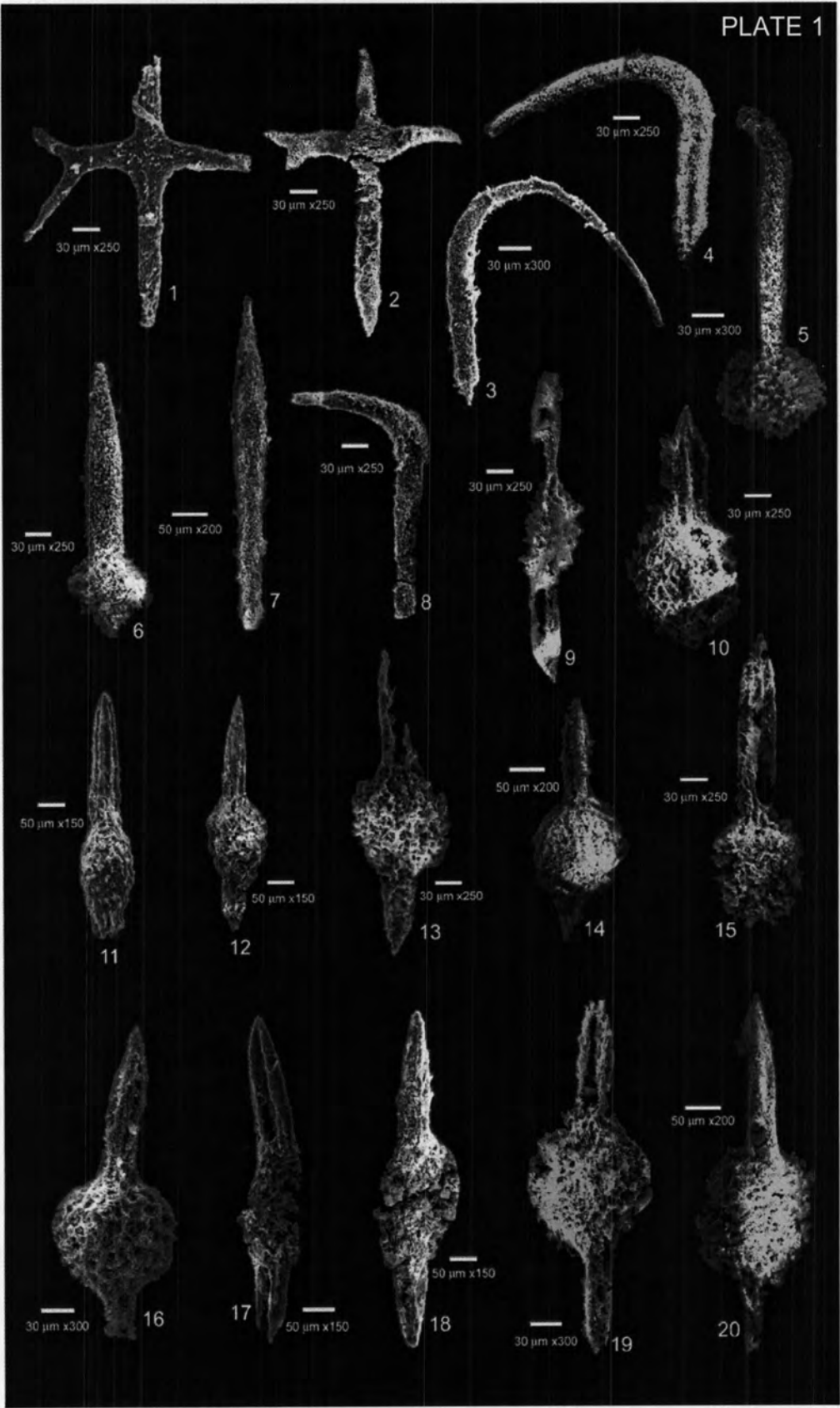
APPENDIX

PLATES 1-8

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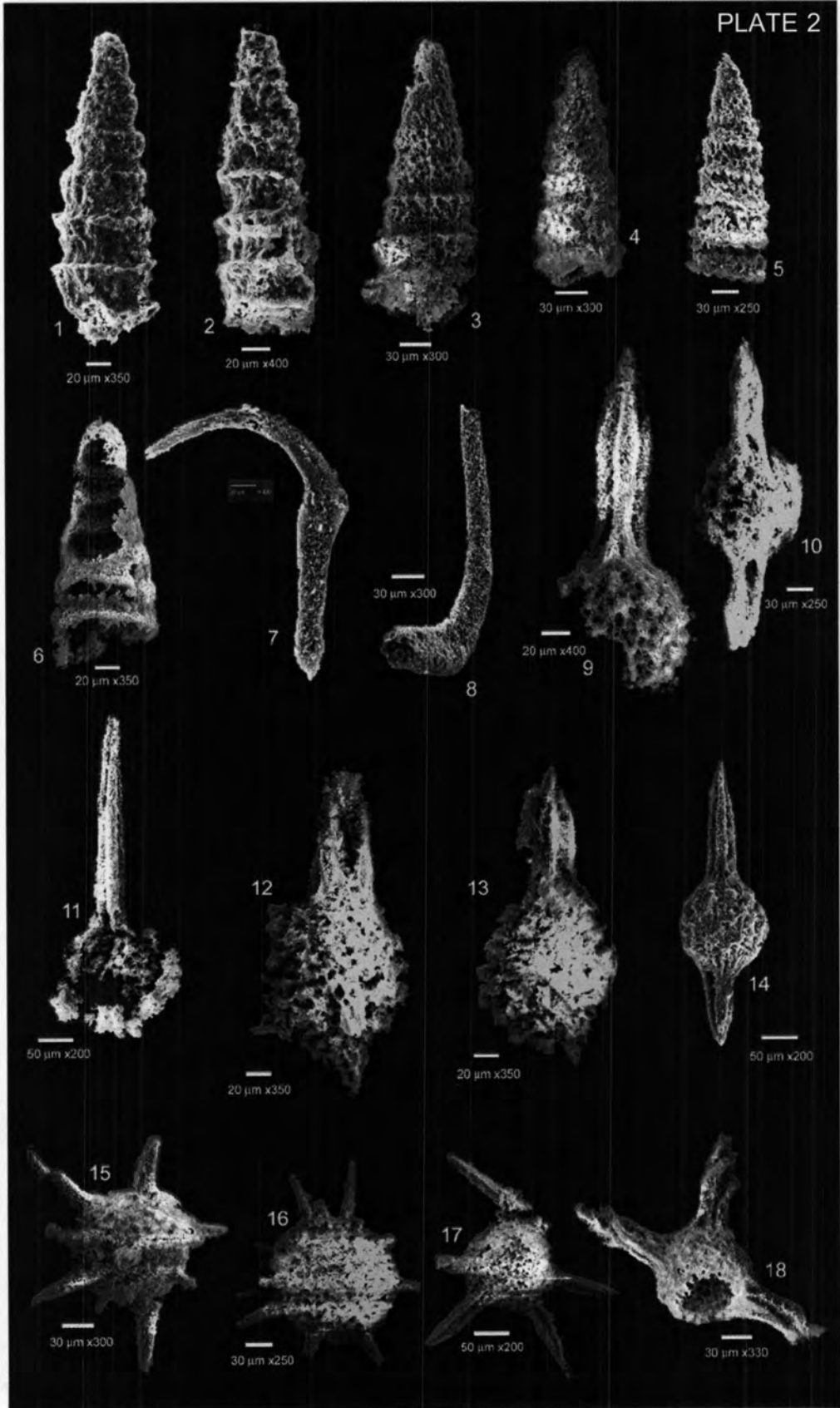
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PLATE 1



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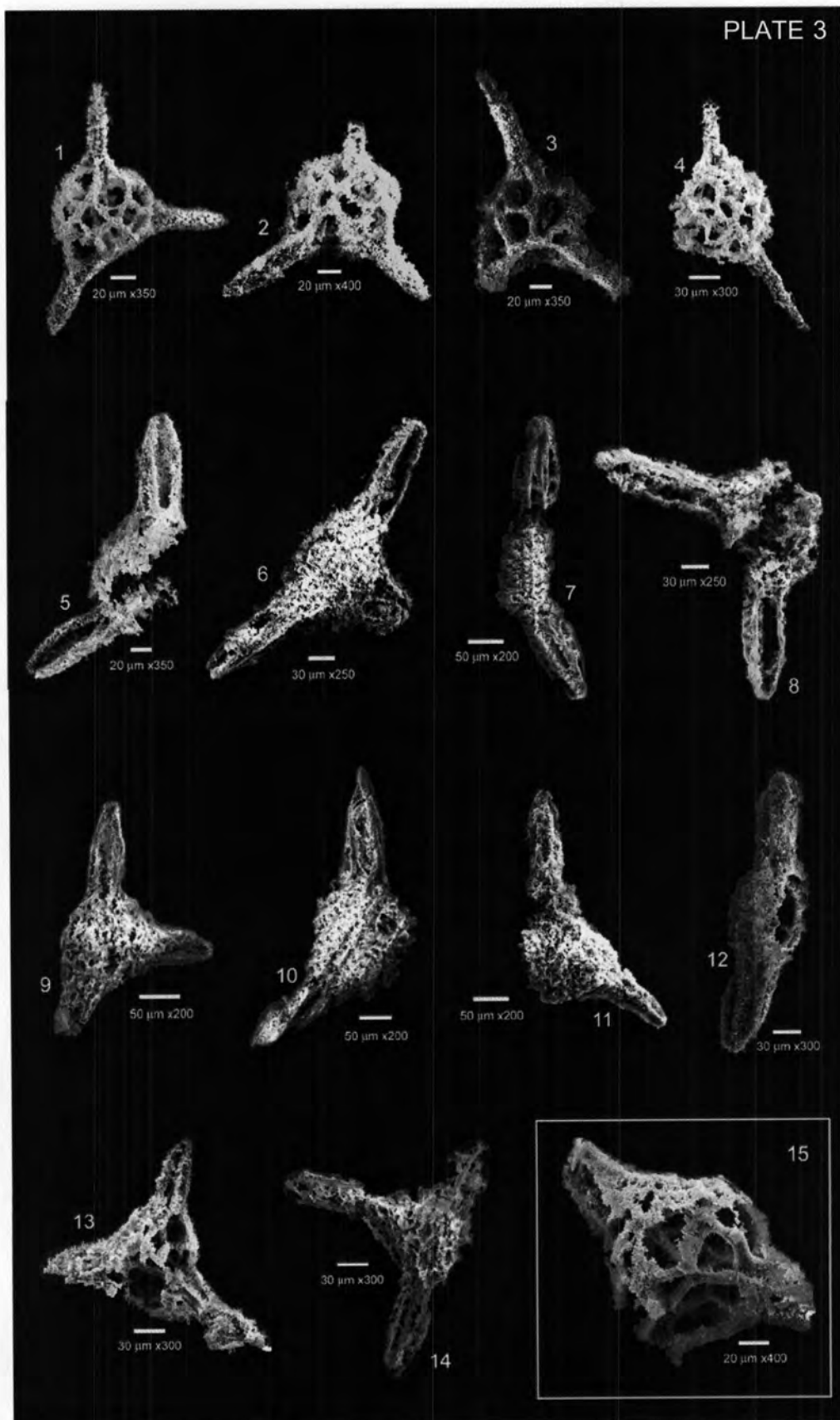
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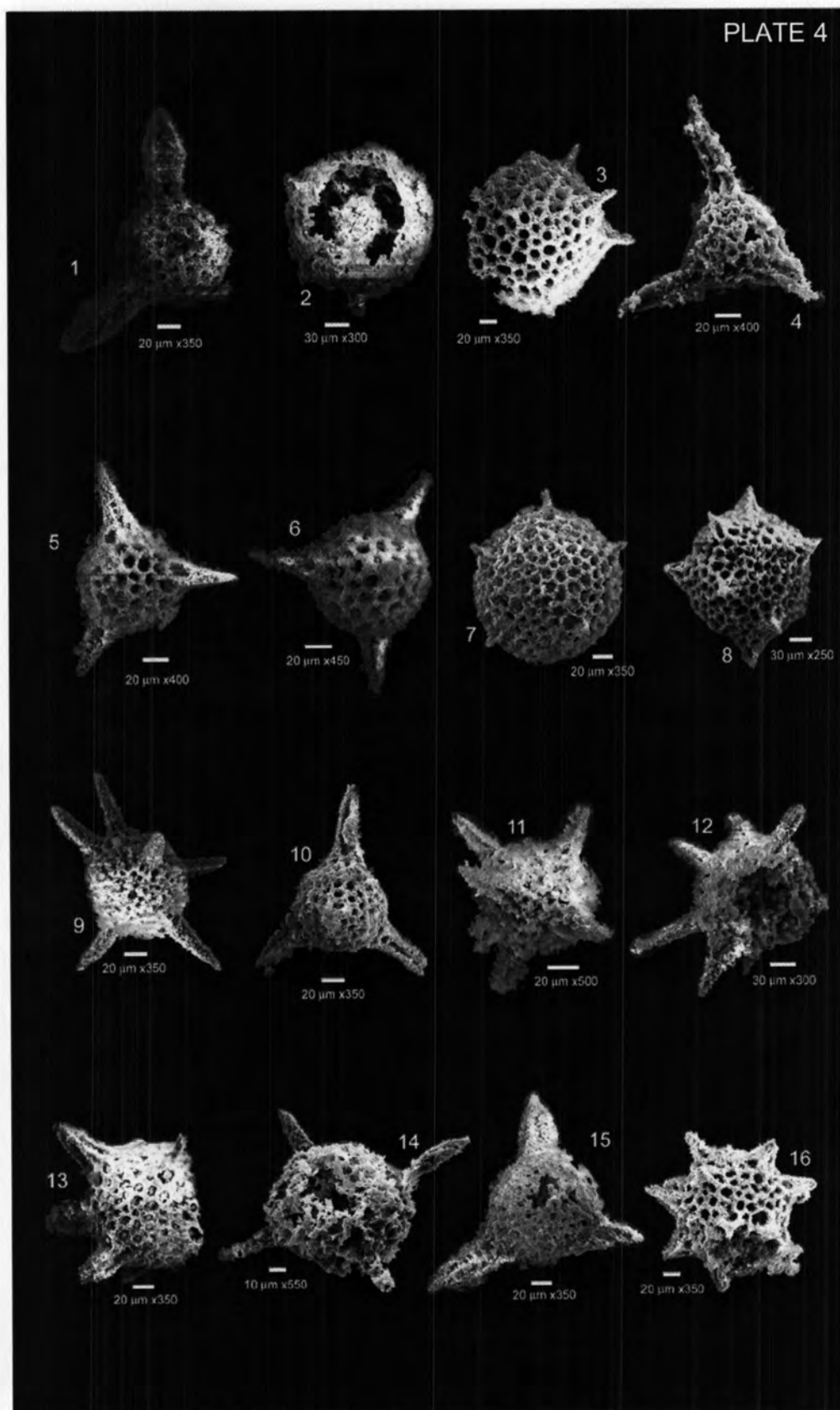
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13-15	<i>Eptingium</i> sp.	64

PLATE 3



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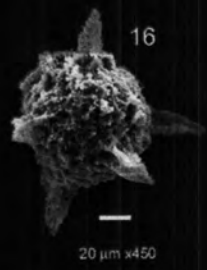
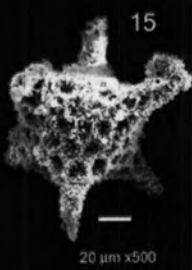
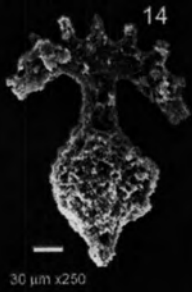
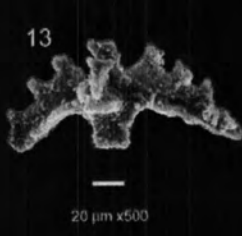
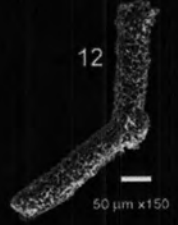
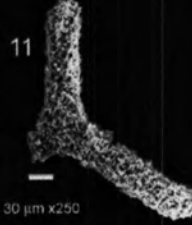
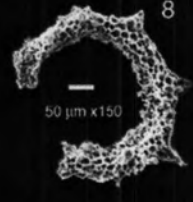
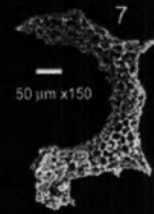
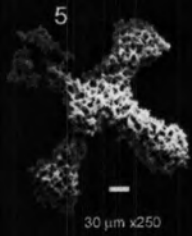
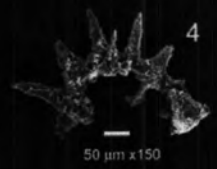
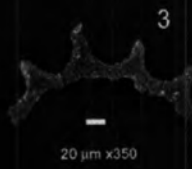
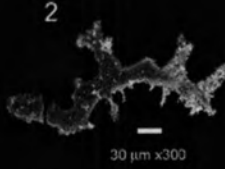
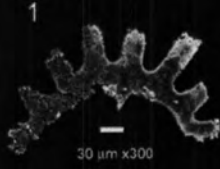
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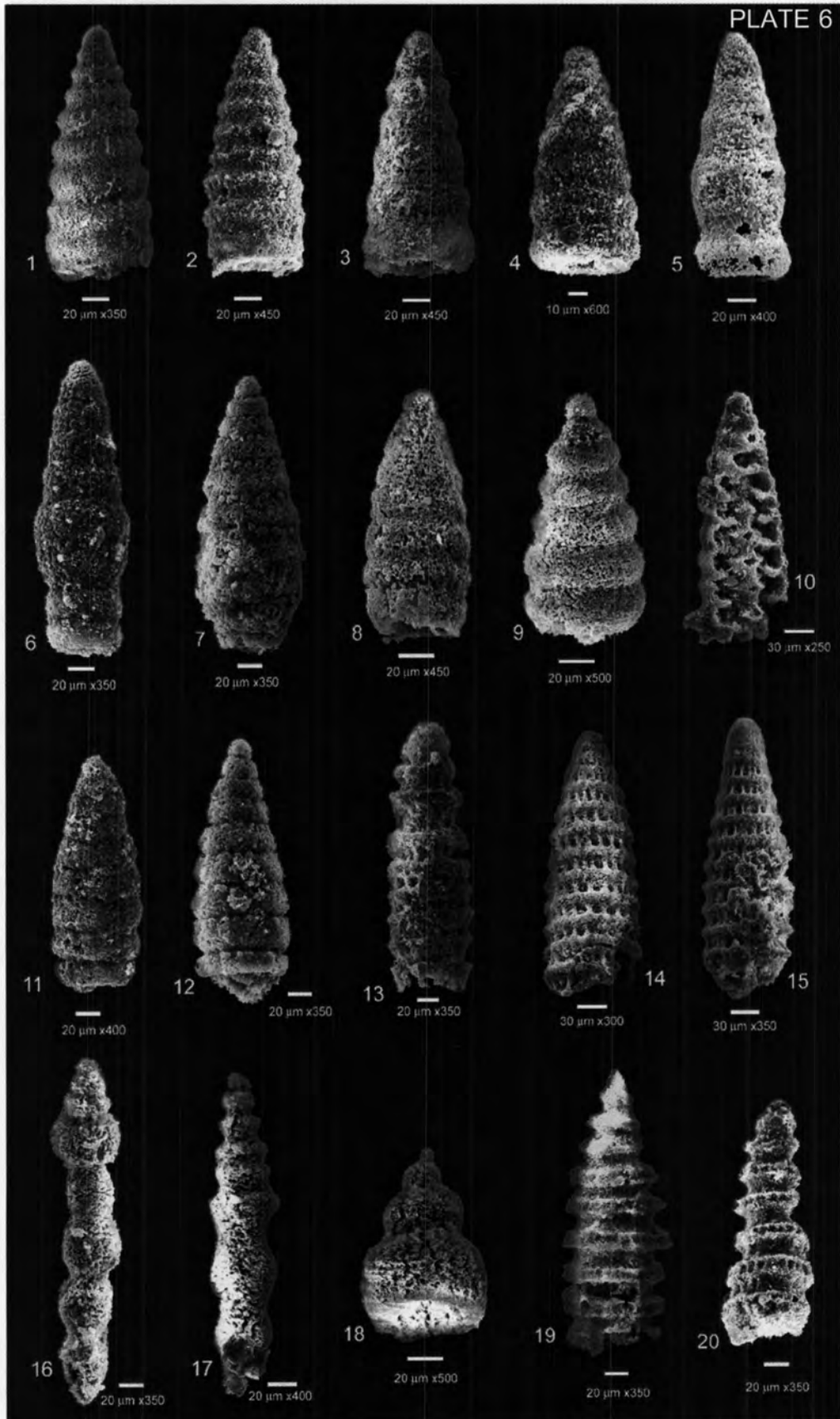
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PLATE 5



EXPLANATION OF PLATE 6

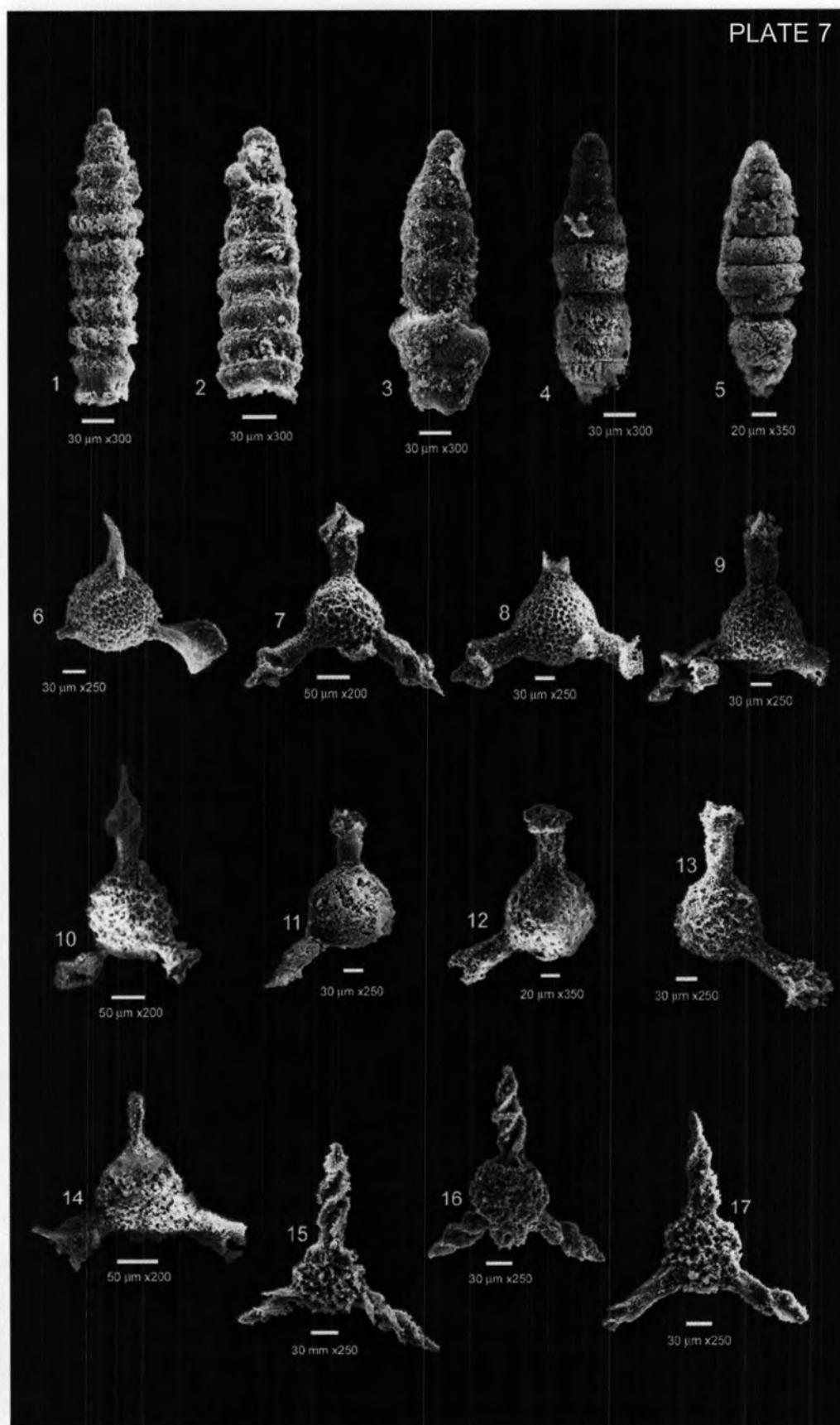
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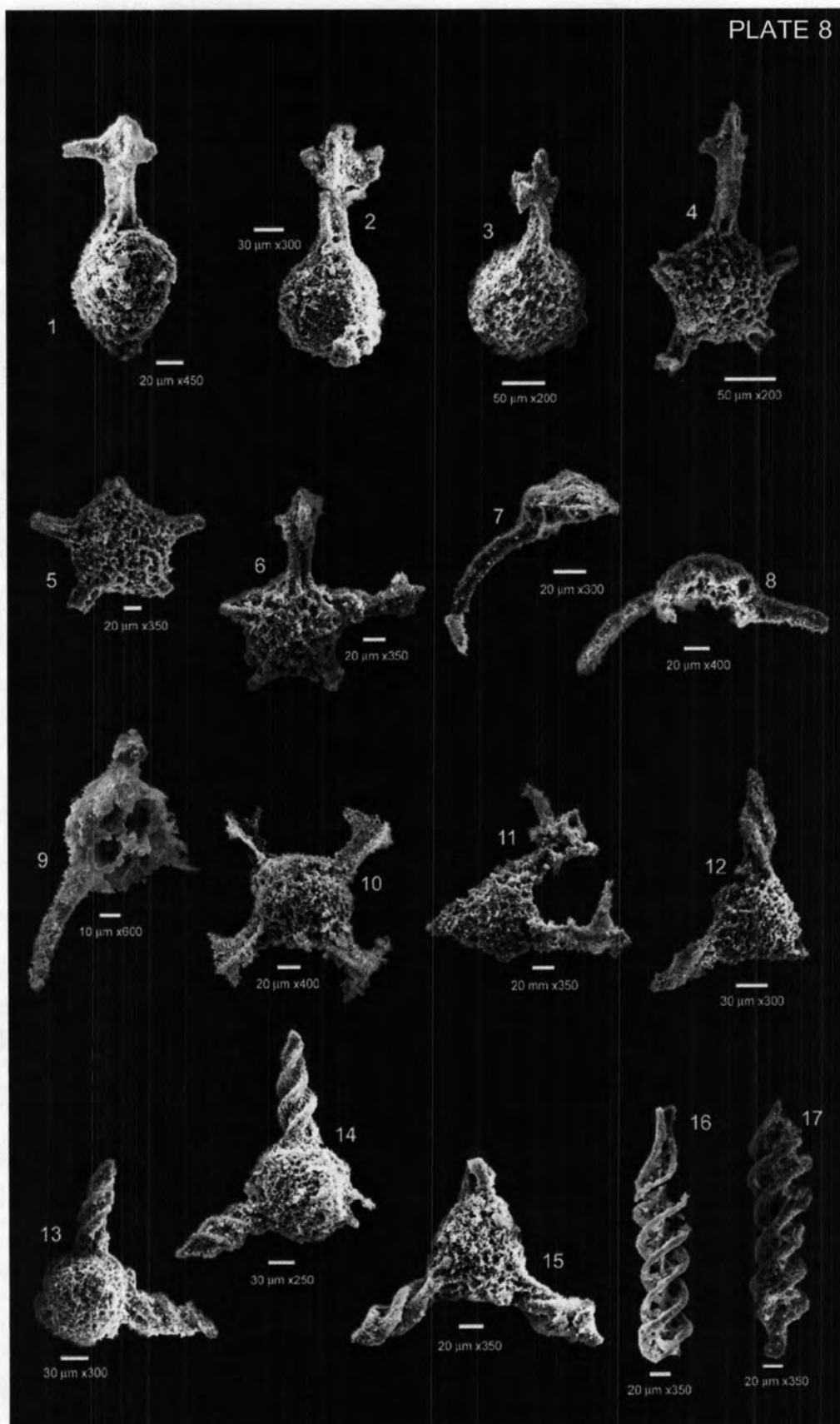
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BIOGRAPHY

Miss Anchalee Weerahong was born on 21 October 1979, at Nakhonratchasima. In 2002, she graduated with a B.Sc. degree in Zoology, Faculty of Science, Kasetsart University. At present, she is study the Master program on Earth Science, Department of Geology at Faculty of Science, Chulalongkorn University. During she studied the M.Sc. program, she has researched concerning radiolaria from Mae Sot-Prop Phra District at University of Yamaguchi, Japan on 17 November 2006 to 10 January 2007.