

Middle Jurassic to lower Cretaceous radiolaria of Tethys: Occurrences, systematics, biochronology

Baumgartner P.O., O'Dogherty L., Gorican S., Urquhart E., Pillevuit A. & De Wever P.

Edited and printed under the auspices of the:
International Association of Radiolarian Paleontologists.
INTERRAD Jurassic-Cretaceous Working Group

Volume financed by:
Swiss National Science Foundation
Fondation Herbette and Fonds Lugeon, University of Lausanne, Switzerland
Centre National de la Recherche Scientifique, France

Contents:

Section 1: Introduction

1. Background and activities of the INTERRAD Jurassic-Cretaceous Working Group
Peter O. Baumgartner
2. Concepts of the systematic and biostratigraphic work *Peter O. Baumgartner, Jean Guex and Paulian Dumitrica*

Section 2: Catalogue and systematics of Middle Jurassic to Lower Cretaceous Radiolaria

3. Systematic framework of Jurassic and Cretaceous Radiolaria *Paulian Dumitrica*
4. Radiolarian catalogue and systematics of Middle Jurassic to Early Cretaceous Tethyan genera and species *Peter O. Baumgartner, Luis O Dogherty, Spela Gorican, Ruth Dumitrica-Jud, Paulian Dumitrica, Alain Pillevuit, Elspeth Urquhart, Atsushi Matsuoka and Taniel Danelian*

Section 3: Biostratigraphy of radiolarian bearing sections and regional radiolarian biochronology

General Papers

5. Towards a Mesozoic radiolarian database - Updates of the work 1984 - 1990
Peter O. Baumgartner
6. Jurassic and Cretaceous radiolarians from the Lesser Caucasus (Zod Pass, Mount Karawul and Site 22 in the Koshuni River Basin) *Valentina Vishnevskaya*

Atlantic

7. New radiolarian data from DSDP Site 534, Blake Bahama Basin, Central Northern Atlantic
Peter O. Baumgartner and Atsushi Matsuoka

Tethys

8. Middle and Upper Jurassic radiolarian assemblages co-occurring with ammonites from the Subbetic Realm (Southern Spain) *Luis O Dogherty, Peter O. Baumgartner Jose Sandoval, Augustin Martin-Algarra and Alain Pillevuit*

9. Radiolarians from the base of the supra-ophiolitic Schistes Lustres Formation in the Alps (Saint-Veran, France and Traversiera Massif, Italy) *Patrick De Wever and Peter O. Baumgartner*
10. Supra-ophiolitic radiolarites from Alpine Corsica (France) *Patrick De Wever and Taniel Danelian*
11. New Middle and Upper Jurassic radiolarian assemblages co-occurring with ammonites and nannofossils from the Southern Alps (Northern Italy) *Peter O. Baumgartner, Luca Martire, Spela Gorican, Luis O'Dogherty, Elisabetta Erba and Alain Pillevuit*
12. Early Cretaceous Radiolarian biostratigraphy of Umbria-Marche Apennines (Italy), Southern Alps (Italy and Switzerland) and Hawasina Nappes (Oman) *Ruth Dumitrica-Jud*
13. Radiolarian biostratigraphy of the cherts in the sedimentary cover of the Apenninic ophiolites (Italy) *Marta Marcucci and Maurizio Conti*
14. Radiolarian biostratigraphy of Tuscan cherts (Tuscan succession) from Val di Lima (Tuscany, Northern Apennines, Italy) *Giuseppe Cortese*
15. Middle and Late Jurassic radiolarian biostratigraphy of the Colle Bertone and Terminiletto sections (Umbria-Marche-Sabina Apennines, Central Italy): an integrated stratigraphical approach *Annachiara Bartolini, Peter O. Baumgartner and Emanuela Mattioli*
16. Jurassic Radiolarians from the Campofiorito and Peloritan Zones, Sicily (Italy) *Norio Kito and Patrick De Wever*
17. Radiolarians from the Sciaccia Zone, Santa Anna, Sicily (Italy) *Patrick De Wever*
18. Middle Jurassic to Early Cretaceous radiolarian biochronology of the Budva Zone (Dinarides, Montenegro) *Spela Gorican*
19. Middle to Upper Jurassic radiolarian biostratigraphy of the Ionian and the Maliac Zones (Greece) *Taniel Danelian*
20. Radiolarians overlying ophiolites of the Almopias domain (Macedonia, Greece) *Patrick De Wever*
21. Radiolarians from the Radiolarites Formation (s.s.), Pindos-Olonos Zone (Greece): Bajocian (?) to Tithonian *Patrick De Wever and Fabrice Cordey*
22. Biostratigraphy of Upper Jurassic radiolarites in the Pieniny Klippen Belt, Carpathians *Krzysztof Birkenmajer and Daniel Widz*
23. Upper Jurassic and Lower Cretaceous radiolarians at Svinita (Romania) *Paulian Dumitrica*
24. Biostratigraphy of the radiolarites at Pojorita (Rarau syncline, East Carpathians) *Paulian Dumitrica*
25. Jurassic-Lower Cretaceous radiolarians from the Caucasus and the Carpathians *Valentina Vishnevskaya*

Japan, Pacific and Circumpacific Terranes

26. Upper Jurassic to Lower Cretaceous stratigraphy of Hokkaido, Japan *Norio Kito*
27. Middle Jurassic to Early Cretaceous radiolarian occurrences in Japan and the Western Pacific (ODP Sites 800-801) *Atsushi Matsuoka*
28. Radiolarian occurrence data from the Middle Jurassic manganese carbonates of the Inuyama and Kamiasso Areas, Japan *Akira Yao and Peter O. Baumgartner*
29. Middle Jurassic (Aalenian and early Bajocian) radiolarians from the Queen Charlotte Islands, British Columbia, Canada *Elisabeth S. Carter*
30. Radiolarian stratigraphic study of Stanley Mountain, California *Donna M. Hull and Emile A. Pessagno*
31. Biostratigraphy of Middle Jurassic radiolarians in the Franciscan Complex, California: Implications for resolution of age discrepancies between North American and European zonations *Benita L. Murchey and Peter O. Baumgartner*

Section 4: Radiolarian biochronology and zonations of Tethys

32. Middle Jurassic to Early Cretaceous radiolarian biochronology of Tethys based on Unitary Associations *Peter O. Baumgartner, Annachiara Bartolini, Elisabeth S. Carter, Maurizio Conti, Giuseppe Cortese, Taniel Danelian, Patrick De Wever, Paulian Dumitrica, Ruth Dumitrica-Jud, Spela Gorican, Jean Guex, Donna M. Hull, Norio Kito, Marta Marcucci, Atsushi Matsuoka, Benita Murchey, Luis O'Dogherty, Jean Savary, Valentina Vishnevskaya Daniel Widz and Akira Yao*
33. Middle Jurassic-Lower Cretaceous Radiolarian Zonation in Japan and western Pacific, and age assignments based on the Unitary Associations method *Atsushi Matsuoka*

Section 5: Glossary, data files and listings

34. Glossary of morphological terms
35. Alphabetical listing of Genera, species and subspecies with MRD-numbers and UAZone ranges
36. Numerical listing according to MRD-numbers of Genera, species and subspecies and UAZone ranges
37. Complete datafile for calculation of Unitary Associations and UAZones
38. List of zonal assignments and calibration of all samples