The literature on Triassic, Jurassic and earliest Cretaceous dinoflagellate cysts: supplement 1

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Since the publication of a major literature compilation issued in mid 2012, 94 further contributions on Triassic, Jurassic and earliest Cretaceous (Berriasian) dinoflagellate cysts have been discovered, or were issued recently (i.e. during late 2012 and early 2013). These studies are mostly on the Late Jurassic and Early Cretaceous of Europe, and are listed herein with a description of each item as a string of keywords.

Keywords: dinoflagellate cysts; Triassic; Jurassic; earliest Cretaceous; literature compilation

1. Introduction

The literature on Triassic, Jurassic and earliest Cretaceous (Berriasian) dinoflagellate cysts was comprehensively compiled and reviewed by Riding (2012a). In this major work, which was published in June 2012, Riding (2012a) listed 1347 publications on this topic known to him as of March 2012, with strings of keywords that detail the scope of each contribution. During the 12 months since the publication of Riding (2012a), i.e. as of March 2013, the author has compiled 73 items which were previously inadvertently overlooked, together with 21 recently published papers (i.e. late 2012 or early 2013).

These 94 publications are largely on the Late Jurassic and earliest Cretaceous of Europe (Table 1), and are listed in Appendix 1 below. Papers on West Europe are most numerous, and comprise 36.2% of the overall total (Table 1); this Euro-centric trend was also noted by Riding (2012a, table 1). The total of 16 contributions (17.0%) on Australasia is significantly biased by the inclusion of nine technical reports on the Mesozoic palynology of

Australia and Papua New Guinea from microfiches in Jell (1987). Significant numbers of contributions are included from Antarctica (5 = 5.3%), the Arctic (7 = 7.4%), East Europe (6 = 6.4%) and Russia (9 = 9.6%). There were also 6 papers (6.4%) based on two or more geographical regions. The numbers of publications from Africa, North America, South America, the Indian subcontinent and the Middle East were less than five each. No contributions from Central America and China have been issued since March 2012 (Table 1).

Papers specifically on other palynomorph groups such as Srivastava (2011), which is on pollen and spores, are not included here. Two typographical errors have been noted in Riding (2012a, p. 26, 92); the first word of the title of Cookson and Eisenack (1974) is "Mikroplankton" and not "Mikrofossilien", and the year of publication of Riley and Fenton (1984) was incorrectly stated to be 1980.

2. Major recent papers

Ten of the 21 publications issued since Riding (2012a) are deemed to be especially scientifically significant. Arkadiev et al. (2012) is a major multidisciplinary biostratigraphical study of the Jurassic-Cretaceous transition of the Crimea, Ukraine. In this monograph, Tithonian-Berriasian marine and terrestrially-derived palynomorphs were studied by Olga V. Shurekova, who wrote a detailed and well-illustrated section (Arkadiev et al., 2012, p. 294-307, pl. 49-54). An account of the Middle Jurassic Szlachtowa Formation ("black flysch") of southern Poland was provided by Barski et al. (2012). This unit is of Bajocian age, and contains evidence of Late Triassic to earliest Middle Jurassic reworking. Mantle and Riding (2012) formally defined the Bajocian-Bathonian *Wanaea verrucosa* dinoflagellate cyst zone, and described and comprehensively illustrated the relatively low diversity assemblages in this interval from three wells drilled in offshore Western Australia. These Middle Jurassic floras are substantially similar to coeval assemblages from the northern hemisphere. A comprehensive revision of the lithostratigraphy of the Middle Jurassic to earliest Cretaceous (Callovian-Berriasian) strata of the Dutch sector of the North Sea was given by Munsterman et al. (2012). This major paper included many relevant data on dinoflagellate cyst biostratigraphy. The dinoflagellate cyst *Gonyaulacysta dentata* (Raynaud 1978) Lentin & Vozzhennikova 1990 was emended by Riding (2012b). This large and distinctive species is indicative of the latest Middle to earliest Late Jurassic (Late Callovian-earliest Oxfordian) interval of Europe and the Arctic, and is unequivocally a cold water form. A further

contribution on *Gonyaulacysta dentata* was given by Riding and Michoux (2013). Schnyder et al. (2012) gave an account of Late Jurassic (Kimmeridgian-Tithonian) dinoflagellate cysts from western France; most of the samples studied by these authors were calibrated to magnetostratigraphy. A major sequence stratigraphical synthesis of the Late Triassic (Norian-Rhaetian) to Quaternary successions of offshore eastern Canada was published by Weston et al. (2012).

A lineage of latest Jurassic to Early Cretaceous (Tithonian-Hauterivian) chorate dinoflagellate cysts from Madagascar was documented by Chen (2013); this plexus largely comprises the new genus *Palaecysta*, which is closely related to *Systematophora*. The typically Early Jurassic (Late Sinemurian) dinoflagllate cyst *Liasidium variabile* Drugg 1978 was interpreted as being indicative of warm marine waters and palaeotemperatures by Riding et al. (2013), due to evidence from isotope geochemistry, multivariate statistics and thermophylic pollen. It is a marker for a distinctive negative carbon isotope excursion (CIE), which was termed the S-CIE by Riding et al. (2013). Van de Schootbrugge et al. (2013) undertook a detailed review of the palaeobiology of latest Triassic and Early Jurassic (Rhaetian-Toarcian) acritarchs, dinoflagellate cysts and prasinophytes, with emphasis on the end-Triassic mass extinction and the Toarcian oceanic anoxic event.

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Author biography

JAMES B. RIDING is a palynologist with the British Geological Survey based in Nottingham, United Kingdom. Jim is a specialist on Mesozoic-Cenozoic palynology, and works on a wide variety of domestic and international projects. One of his principal tasks is a RCUK Individual Merit research programme entitled *Jurassic dinoflagellate cyst palaeobiology and its applications*. This work aims to use the Jurassic dinoflagellate cyst record to effect long-scale correlations, to assess floral provincialism and to use dinoflagellate cysts to solve palaeobiological questions. Jim became Secretary-Treasurer of the International Federation of Palynological Societies (IFPS) in 2012.

References

Arkadiev VV, Bogdanova TN, Guzhikov AY, Lobacheva SV, Myshkina NV, Platonov ES, Savelyeva YN, Shurekova OV, Yanin BT. 2012. Berriasian Stage of the mountainous Crimea. Lema Publishers, Saint Petersburg, Russia, 472 p.

Barski M, Matyja BA, Segit T, Wierzbowski A. 2012. Early to Late Bajocian age of the "black flysch" (Szlachtowa Fm.) deposits: implications for the history and geological structure of the Pieniny Klippen Belt, Carpathians. Geological Quarterly 56: 391-410.

Chen, Y.-Y. 2013. *Palaecysta* gen. nov., the greatest *Systematophora* imposter no more: introducing a lineage of latest Jurassic to Early Cretaceous (Tithonian-Hauterivian) dinoflagellate cysts from Madagascar. Palynology, http://dx.doi.org/10.1080/01916122.2013.782367.

Cookson IC, Eisenack A. 1974. Mikroplankton aus Australischen Mesozoischen und Tertiären Sedimenten. Palaeontographica Abteilung B Palaeobotany - Palaeophytology 148: 44-93.

Jell, PA (editor). 1987. Studies in Australian Mesozoic Palynology. Memoir of the Association of Australasian Palaeontologists 4, 341 p.

Mantle DJ, Riding JB. 2012. Palynology of the Middle Jurassic (Bajocian-Bathonian) *Wanaea verrucosa* dinoflagellate cyst zone of the North West Shelf of Australia. Review of Palaeobotany and Palynology 180: 41-78.

Munsterman DK, Verreussel RMCH, Mijnlieff HF, Witmans N, Kerstholt-Boegehold S, Abbink OA. 2012. Revision and update of the Callovian-Ryazanian stratigraphic nomenclature in the northern Dutch offshore, i.e. Central Graben Subgroup and Scruff Group. Netherlands Journal of Geosciences - Geologie en Mijnbouw 91: 555-590.

Riding JB. 2012a. A compilation and review of the literature on Triassic, Jurassic, and earliest Cretaceous dinoflagellate cysts. American Association of Stratigraphic Palynologists Contributions Series No. 46, 119 p. plus CD ROM.

Riding JB. 2012b. The Jurassic dinoflagellate cyst *Gonyaulacysta dentata* (Raynaud 1978) Lentin & Vozzhennikova 1990 emend. nov.: An index species for the Late Callovian to earliest Oxfordian of the northern hemisphere. Review of Palaeobotany and Palynology 176-177: 68-81.

Riding JB, Michoux D. 2013. Further observations on the Jurassic dinoflagellate cyst *Gonyaulacysta dentata* (Raynaud 1978) Lentin & Vozzhennikova 1990 emended Riding 2012. Review of Palaeobotany and Palynology 196: 51-56.

Riding JB, Leng MJ, Kender S, Hesselbo SP, Feist-Burkhardt S. 2013. Isotopic and palynological evidence for a new Early Jurassic environmental perturbation. Palaeogeography, Palaeoclimatology, Palaeoecology 374: 16-27.

Riley LA, Fenton JPG. 1984. Palynostratigraphy of the Berriasian to Cenomanian sequence at Deep Sea Drilling Project Site 535, Leg 767, southeastern Gulf of Mexico. Initial Reports of the Deep Sea Drilling Project 77: 675-690.

Schnyder J, Deconinck J-F, Baudin F, Colombié C, Jan du Chêne R, Gardin S, Galbrun B, de Rafélis M. 2012. Purbeck beds (Late Jurassic) in the Phare de Chassiron section (Île d'Oléron, NW Aquitaine Basin, France): Refined age-assignment and long-term depositional sequences. Geobios 45: 485-499.

Srivastava SK. 2011. Spore-pollen biostratigraphy of the English Jurassic. Palaeontographica Abteilung B Palaeobotany - Palaeophytology 285: 113-201.

van de Schootbrugge B, Bachan A, Suan G, Richoz S, Payne JL. 2013. Microbes, mud and methane: cause and consequence of recurrent Early Jurassic anoxia following the end-Triassic mass extinction. Palaeontology, doi: 10.1111/pala.12034.

Weston JF, MacRae RA, Ascoli P, Cooper MKE, Fensome RA, Shaw D, Williams GL. 2012. A revised biostratigraphic and well-log sequence-stratigraphic framework for the Scotian Margin, offshore eastern Canada. Canadian Journal of Earth Sciences 49: 1417-1462.

Caption for Table 1:

Table 1. A breakdown of the 94 publications on Triassic to earliest Cretaceous dinoflagellate cysts compiled herein based on geographical region and the initial letter of the first author.

Appendix 1. List of Literature

The literature on Middle Triassic to earliest Cretaceous (Berriasian) dinoflagellate cysts issued after the publication of Riding (2012a), and those papers encountered after this compilation was made, is listed in alphabetical/chronological order below. The reference format used in Riding (2012a) is retained. Papers of major significance are asterisked. The language in which a paper was written in is indicated if it is not in English. A summary of the scope of each item is given as a string of keywords in parentheses after each citation. This summary comprises the principal subject matter, age range, geographical region(s) and country/countries. A distinction is made between publications which document new data ('primary data'), and those which compile, review or summarise existing data ('compilation'). For the purposes of this work, the world is subdivided into 13 geographical regions. These are Africa, Central America, North America, South America, Antarctica, the Arctic, Australasia, China, East Europe, West Europe, the Indian subcontinent, the Middle East and Russia (Table 1).

A

*ARKADIEV, V.V., BOGDANOVA, T.N., GUZHIKOV, A.Y., LOBACHEVA, S.V., MYSHKINA, N.V., PLATONOV, E.S., SAVELYEVA, Y.N., SHUREKOVA, O.V., and YANIN, B.T.

2012 *Berriasian Stage of the mountainous Crimea*. Lema Publishers, Saint Petersburg, Russia, ISBN 978-5-98709-521-8, 472 p. (in Russian with an English abstract).
(biostratigraphy; lithostratigraphy; macropalaeontology; magnetostratigraphy; ostracods; palaeogeography; tintinnids; primary data; Late Jurassic-Early Cretaceous [Tithonian-Berriasian]; East Europe [Crimea, Ukraine])

B

BACHMANN, G.H., GELUK, M.C., WARRINGTON, G., BECKER-ROMAN, A., BEUTLER, G., HAGDORN, H., HOUNSLOW, M.W., NITSCH, E., RÖHLING, H.-G., SIMON, T., and SZULC, A.

2010 Chapter 9. Triassic. *In*: Doornenbal, J.C., and Stevenson, A.G. (editors). *Petroleum Geological Atlas of the Southern Permian Basin Area.* EAGE Publications b.v., Houten, Utrecht, The Netherlands, 148-173.
(biostratigraphy; lithostratigraphy; compilation; Late Triassic [Rhaetian]; West Europe [Southern North Sea])

*BARSKI, M., MATYJA, B.A., SEGIT, T., and WIERZBOWSKI, A.

2012 Early to Late Bajocian age of the “black flysch” (Szlachtowa Fm.) deposits: implications for the history and geological structure of the Pieniny Klippen Belt, Carpathians. *Geological Quarterly*, 56(3): 391-410.
(biostratigraphy; reworking; regional geology; primary data; Middle Jurassic [Bajocian]; East Europe [Poland])

BARTON, C.M., WOODS, M.A., BRISTOW, C.R., NEWELL, A.J., WESTHEAD, R.K., EVANS, D.J., KIRBY, G.A., WARRINGTON, G., RIDING, J.B., FRESHNEY, E.C., HIGHLEY, D.E., LOTT, G.K., FORSTER, A., and GIBSON, A.
2011 Chapter 2. Permian and Triassic. *In*: Geology of south Dorset and south-east Devon and its World Heritage Coast. *Special Memoir of the British Geological Survey*. Sheets 328, 341/342, 342/343, and parts of 326/340, 327, 329 and 339 (England and Wales). British Geological Survey, Nottingham, 6-18.
(biostratigraphy; lithostratigraphy; compilation; Late Triassic [Rhaetian]; West Europe [England])

BEIZEL, A.L., LEBEDEVA, N.K., and SHENFIL, O.V.
1997 New geological data and zoning of the Neocomian key section on the Yatriya River (*Polar Transuralia*) according to belemnites, dinocysts, and palynomorphs. *Russian Geology and Geophysics*, 38(6): 1092-1099.
(biostratigraphy; primary data; Early Cretaceous [Berriasian-Hauterivian]; Arctic [Northwest Siberia, Northeast Russia])

BENTON, M.J., COOK, E., and TURNER, P.
2002 Chapter 4. British Penarth Group Sites. *In*: Permian and Triassic Red Beds and the Penarth Group of Great Britain. *Geological Conservation Review Series*, Number 24, Joint Nature Conservation Committee, Peterborough, 217-274.
(biostratigraphy; lithostratigraphy; compilation; Late Triassic [Rhaetian]; West Europe [England, Wales])

BLOOS, G.
1999 Aspekte der Wende Trias/Jura. *In:* Hauschke, N., and Wilde, V. (editors). *Trias: eine ganz andere Welt: Mitteleuropa im frühen Erdmittelalter*. Verlag Dr. Friedrich Pfeil, München, 43-68.
(biostratigraphy; primary data; Late Triassic [Rhaetian]; West Europe [Wales])

BONIS, N.R., VAN KONIJNENBURG-VAN CITTERT, J.H.A., and KÜRSCHNER, W.M.
2010 Changing CO_2 conditions during the end-Triassic inferred from stomatal frequency analysis on *Lepidopteris ottonis* (Goeppert) Schimper and *Ginkgoites taeniatus* (Braun) Harris. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 295(1-2): 146-161.

(biostratigraphy; CO_2 levels; palaeobotany [stomata]; palaeoclimatology; primary data; Late Triassic-Early Jurassic [Rhaetian-Hettangian];West Europe [Germany])

C

CHADWICK, R.A., JACKSON, D.I., BARNES, R.P., KIMBELL, G.S., JOHNSON, H., CHIVERRELL, R.C., THOMAS, G.S.P., JONES, N.S., RILEY, N.J., PICKETT, E.A., YOUNG, B., HOLLIDAY, D.W., BALL, D.F., MOLYNEUX, S.G., LONG, D., POWER, G.M., and ROBERTS, D.H.

2001 Geology of the Isle of Man and its offshore area. *British Geological Survey Research Report*, RR/01/06, 144 p.

(biostratigraphy; lithostratigraphy; compilation; Late Triassic [Rhaetian]; West Europe [Isle of Man, England)

*CHEN, Y.-Y.

2013 *Palaecysta* gen. nov., the greatest *Systematophora* imposter no more: introducing a lineage of latest Jurassic to Early Cretaceous (Tithonian-Hauterivian) dinoflagellate cysts from Madagascar. *Palynology*, http://dx.doi.org/10.1080/01916122.2013.782367.

(biostratigraphy; morphology; phylogeny; taxonomy; primary data; latest Jurassic-Early Cretaceous [Tithonian-Hauterivian]; East Africa [Madagascar])

CIRILLI, S.

2010 Upper Triassic-lowermost Jurassic palynology and palynostratigraphy: a review. *In*: Lucas, S.G. (editor). The Triassic Timescale. *Geological Society, London, Special Publications*, No. 334: 285-314.

(biostratigraphy; correlation; palaeobiology; palaeoclimatology; pollen/spores; compilation; Late Triassic-Early Jurassic [Hettangian-Rhaetian]; worldwide)

COLOMBIÉ, C., SCHNYDER, J., and CARCEL, D.

2012 Shallow-water marl-limestone alternations in the Late Jurassic of western France: Cycles, storm event deposits or both? *Sedimentary Geology*, 271-272: 28-43.

(biostratigraphy; Milankovitch cyclicity; sedimentology; primary data; Late Jurassic [Kimmeridgian-Tithonian]; West Europe [France])

CONWAY, B.H., COUSMINER, H.L., ESHET, Y., and HIRSCH, F.

1990 Palynozones at the Triassic/Jurassic boundary in Israel. *Les Cahiers de l'Université Catholique de Lyon, Série Sciences,* No. 3: 137-149.

(biostratigraphy; lithostratigraphy; compilation; Late Triassic [Norian-Rhaetian]; Middle East [Israel])

COUSMINER, H.L., STEINKRAUS, W.E., and ADINOLFI, F.

1986 Biostratigraphy and depositional environments. *In*: Adinolfi, F. (editor). Murphy Wilmington Canyon 106-1 Well. Geological and Operational Summary. *United States Department of the Interior, Minerals Management Service, Atlantic OCS region, OCS Report,* MMS 86-0117: 19-28.

(biostratigraphy; paleoecology; primary data; Middle Jurassic-Pliocene/Pleistocene [?Bathonian-undifferentiated]; North America [offshore New Jersey, eastern U.S.A.])

D

DEDEEV, V.A., MOLIN, V.A., and ROZANOV, V.I.

1997 Yurskaya pestchanaya tolshcha evropeyskogo severa Rossii [Jurassic sandy sequence of Northern European Russia]. *Komints Uro Ran, Syktyvkar*, 80 p. (in Russian).

(biostratigraphy; primary data; Middle Jurassic [Bathonian-Callovian]; Arctic [Northwest Russia])

DETTMANN, M.E., and THOMSON, M.R.A.

1987 Cretaceous palynomorphs from the James Ross Island area, Antarctica - a pilot study. *British Antarctic Survey Bulletin,* 77: 13-59.

(biogeography; biostratigraphy; reworking; primary data; Late Jurassic and Early-Late Cretaceous [Oxfordian-Tithonian and Albian-Maastrichtian]; Antarctica [Antarctic Peninsula])

E

ENSOM, P.C., CLEMENTS, R.G., FEIST-BURKHARDT, S., MILNER, A.R., CHITOLIE, J., JEFFERY, P.A., and JONES, C.

2009 The age and identity of an ichthyosaur reputedly from the Purbeck Limestone Group, Lower Cretaceous, Dorset, southern England. *Cretaceous Research*, 30: 699-709.
(biostratigraphy; vertebrate palaeontology; primary data; Early Cretaceous [Berriasian]; West Europe [England])

ERCEGOVAC, M., GRUBIĆ, A., and MILIVOJEVIĆ, J.

2002 Biostratigraphical study of Lower Cretaceous Kašajina River Beds and its importance for geology of NE Serbia. *Annales Géologiques de la Péninsule Balkanique*, 64: 63-82.
(biostratigraphy; primary data; Early Cretaceous [?Berriasian-Valanginian to Hauterivian]; East Europe [Serbia])

F

FEDOROVA, V.A., BYSTROVA, V.V., KOLPENSKAYA, N.N., and SOCHEVANOVA, O.A.

1993 Detailed microbiostratigraphy of the basal sections of boreal Berriasian in Russia (Rvs Igma, Jatriya, Boyarka). *In*: Chirva, S.A., and Zinchenko, V.N. (editors). *Phanerozoic stratigraphy of the petrol- and gas-bearing regions of Russia*. VNIGRI, St.-Petersburg, 172-188 (in Russian).
(biostratigraphy; compilation; Late Jurassic-Early Cretaceous [Volgian-Valanginian]; Arctic [North Siberia, North Russia])

FORTWENGLER, D., MARCHAND, D., BONNOT, A., JARDAT, R., and RAYNAUD, D.

2012 Proposal for the Thuoux section as a candidate for the GSSP of the base of the Oxfordian stage. *Carnets de Géologie [Notebooks on Geology]*, Article 2012/06 (CG2012_A06): 117-136.
[biostratigraphy; Global Boundary Stratotype Section and Point [GSSP]; compilation; Late Jurassic [Oxfordian]; West Europe [France])

G

GEDL, P., KAIM, A., BOCZAROWSKI, A., KĘDZIERSKI, M., SMOLEŃ, J., SZCZEPANIK, P., WITKOWSKA, M., and ZIAJA, J.

2003 Rekonstrukcja paleośrodowiska sedymentacji środkowojurajskich iłów rudonośnych Gnaszyna (Częstochowa – wyniki wstępne). *Volumina Jurassica/Tomy Jurajskie*, 1: 19-27 (in Polish).

(biostratigraphy; primary data; Middle Jurassic [Bathonian]; East Europe [Poland])

GORYACHEVA, A.A.

2009 Palynostratigraphy of lower and middle Jurassic deposits in section of the Well Vostok-4 (south-east of West Siberia). *In*: Zakharov, V.A. (editor). *Jurassic System of Russia: Problems of Stratigraphy and Paleogeography*. Third all-Russian meeting. September 23-27, 2009, Saratov State University, Saratov: 43-45 (extended abstract in Russian).

(biostratigraphy; summary; Early-Middle Jurassic [Pliensbachian-Bajocian]; Russia [Siberia, East Russia])

H

HELBY, R.J.

1974a A palynological study of the Petrel Formation. Unpublished palynology report, 47 p. (this was reproduced as fiche 1, p. 1-47, fiche 2, figs. 1-5 and fiche 3, figs. 6-12 *in*: Helby, R., Morgan, R., and Partridge, A.D. 1987. A palynological zonation of the Australian Mesozoic. *Memoir of the Association of Australasian Palaeontologists,* 4: 1-94).

(biostratigraphy; pollen/spores; primary data; Middle Jurassic-Early Cretaceous [Callovian-Albian]; Australasia [Western Australia])

HELBY, R.J.

1974b A palynology`ical study of the Cambridge Gulf Group (Triassic-Early Jurassic) Formation. Unpublished palynology report, 34 p. (this was reproduced as fiche 1, p.

405 49-83, fiche 4, figs. 2-11 and fiche 5, figs. 12-15 *in*: Helby, R., Morgan, R., and Partridge,
406 A.D. 1987. A palynological zonation of the Australian Mesozoic. *Memoir of the Association*
407 *of Australasian Palaeontologists,* 4: 1-94).
408 (biostratigraphy; pollen/spores; primary data; Triassic-Early Jurassic [Ladinian-Sinemurian];
409 Australasia [Western Australia])
410
411 HELBY, R.J., and PARTRIDGE, A.D.
412 1976a Palynological analysis of Aramia-1, Papuan Basin. *Esso Australia Limited,*
413 *Palaeontological Report, 1976/5A*, 14 p. (this was reproduced as fiche 1, p. 85-98 *in:* Helby,
414 R., Morgan, R., and Partridge, A.D. 1987. A palynological zonation of the Australian
415 Mesozoic. *Memoir of the Association of Australasian Palaeontologists,* 4: 1-94).
416 (biostratigraphy; pollen/spores; thermal maturation; primary data; Middle Jurassic-Early
417 Cretaceous [Bathonian-Albian]; Australasia [Papua New Guinea])
418
419 HELBY, R.J., and PARTRIDGE, A.D.
420 1976b Palynological analysis of Barikewa-1, Papuan Basin. *Esso Australia Limited,*
421 *Palaeontological Report, 1976/12*, 13 p. (this was reproduced as fiche 1, p. 100-112 *in*:
422 Helby, R., Morgan, R., and Partridge, A.D. 1987. A palynological zonation of the Australian
423 Mesozoic. *Memoir of the Association of Australasian Palaeontologists,* 4: 1-94).
424 (biostratigraphy; pollen/spores; thermal maturation; primary data; Middle Jurassic-Early
425 Cretaceous [Bathonian-Albian]; Australasia [Papua New Guinea])
426
427 HELBY, R.J., and PARTRIDGE, A.D.
428 1976c Palynological analysis of the Mesozoic cores samples from Iehi-1, Papuan
429 Basin. *Esso Australia Limited, Palaeontological Report, 1976/13*, 17 p. (this was reproduced
430 as fiche 1, p. 114-124 *in*: Helby, R., Morgan, R., and Partridge, A.D. 1987. A palynological
431 zonation of the Australian Mesozoic. *Memoir of the Association of Australasian*
432 *Palaeontologists,* 4: 1-94).
433 (biostratigraphy; pollen/spores; thermal maturation; primary data; Middle Jurassic-Early
434 Cretaceous [Callovian-Albian]; Australasia [Papua New Guinea])
435
436 HELBY, R.J., and PARTRIDGE, A.D.
437 1977a Palynological analysis of the Mesozoic sequence in Iamara-1, Papuan Basin.
438 *Esso Australia Limited, Palaeontological Report, 1977/3*, 11 p. (this was reproduced as fiche

1, p. 126-142 *in*: Helby, R., Morgan, R., and Partridge, A.D. 1987. A palynological zonation of the Australian Mesozoic. *Memoir of the Association of Australasian Palaeontologists,* 4: 1-94).
(biostratigraphy; pollen/spores; thermal maturation; primary data; Middle Jurassic-Early Cretaceous [Bathonian-Aptian]; Australasia [Papua New Guinea])

HELBY, R.J., and PARTRIDGE, A.D.
1977b Palynological analysis of Omati-1 and Omati-2 wells, Papuan Basin. *Esso Australia Limited, Palaeontological Report, 1977/10*, 23 p. (this was reproduced as fiche 1, p. 144-166 *in*: Helby, R., Morgan, R., and Partridge, A.D. 1987. A palynological zonation of the Australian Mesozoic. *Memoir of the Association of Australasian Palaeontologists,* 4: 1-94).
(biostratigraphy; pollen/spores; thermal maturation; primary data; Late Jurassic-Early Cretaceous [Oxfordian-Albian]; Australasia [Papua New Guinea])

HELBY, R.J., and PARTRIDGE, A.D.
1977c A palynological reconnaissance of BMR stratigraphic drilling in Mesozoic rocks of the Carpentaria Basin. *Esso Australia Limited, Palaeontological Report, 1977/22*, 25 p. (this was reproduced as fiche 1, p. 168-196 *in*: Helby, R., Morgan, R., and Partridge, A.D. 1987. A palynological zonation of the Australian Mesozoic. *Memoir of the Association of Australasian Palaeontologists,* 4: 1-94).
(biostratigraphy; pollen/spores; thermal maturation; primary data; Middle Jurassic-Early Cretaceous [Bathonian-Aptian]; Australasia [Queensland, Australia])

HELBY, R.J., and PARTRIDGE, A.D.
1980 *Australian Mesozoic dinoflagellates. A catalogue of 35mm transparencies of Australian Mesozoic dinoflagellate and acritarch species described by Isabel C. Cookson and co-workers 1955-1974, Roger Morgan 1975-1980, John Filatoff 1975*. The Earth Resources Foundation, the University of Sydney, New South Wales, 26 p. and 287 colour transparencies.
(catalogue; 35mm transparencies; compilation; Middle Jurassic-Late Cretaceous [Callovian-Maastrichtian]; Australasia [Australia, Papua New Guinea])

HELBY, R.J., and POWIS, G.D.

1981 Palynological review of selected petroleum wells in and adjacent to acerage WA 155 P. *Esso Australia Limited, Palaeontological Report, 1981/18*, 102 p. (this was reproduced as fiche 1, p. 198-240 and fiche 2, p. 1-57 *in*: Helby, R., Morgan, R., and Partridge, A.D. 1987. A palynological zonation of the Australian Mesozoic. *Memoir of the Association of Australasian Palaeontologists,* 4: 1-94).
(biostratigraphy; palynofacies; pollen/spores; primary data; Late Triassic-Late Cretaceous [Rhaetian-Campanian]; Australasia [Western Australia])

HESSELBO, S.P., MORGANS-BELL, H.S., McELWAIN, J.C., REES, P.M., ROBINSON, S.A., and ROSS, C.E.
2003 Carbon-cycle perturbation in the Middle Jurassic and accompanying changes in the terrestrial paleoenvironment. *The Journal of Geology*, 111: 259–276.
(correlation; geochemistry; palaeobotany; palaeoclimatology; palaeoecology; palynofacies; primary data; Middle Jurassic [Bajocian]; West Europe [England])

HOUNSLOW, M.W., and MUTTONI, G.
2010 The geomagnetic polarity timescale for the Triassic: linkage to stage boundary definitions. *In*: Lucas, S.G. (editor). The Triassic Timescale. *Geological Society, London, Special Publications*, No. 334: 61-102.
(biostratigraphy; ammonoids; conodonts; magnetostratigraphy; compilation; Late Triassic-Early Jurassic [Rhaetian-Hettangian]; West Europe [England])

I

ILYINA, V.I., and SUSHAKOVA, A.V.
2001 A comparative analysis of microphytoplankton assemblages from different facies of the Lower Toarcian of Siberia. In: *Problems in Mesozoic stratigraphy and palaeogeography. 5th Symposium in Memory of V.N. Sachs, Novosibirsk, April 23-25, 2001*, 64-66 (extended abstract in Russian).
(biostratigraphy; palaeoecology; palaeogeography; summary; Early Jurassic [Toarcian]; Russia [Siberia, East Russia])

INGRAM, B.S.

1967 Palynology of the Otorowiri Siltstone Member, Yarragadee Formation. *Geological Survey of Western Australia, Annual Report for the year 1966*: 79-83. (biostratigraphy; reworking; primary data; Late Jurassic-Early Cretaceous [Oxfordian-Tithonian, undifferentiated]; Australasia [Western Australia])

K

KEATING, J.M.

1992 Palynology of the Lachman Crags Member, Santa Marta Formation (Upper Cretaceous) of north-west James Ross Island. *Antarctic Science*, 4(3): 293-304. (biostratigraphy; reworking; primary data; Late Jurassic and Early-Late Cretaceous [Oxfordian-Tithonian and Albian-Maastrichtian]; Antarctica [Antarctic Peninsula])

KEATING, J.M., SPENCER-JONES, M., and NEWHAM, S.

1992 The stratigraphical palynology of the Kotick Point and Whisky Bay formations, Gustav Group (Cretaceous), James Ross Island. *Antarctic Science*, 4(3): 279-292. (biostratigraphy; reworking; primary data; Late Jurassic and Early-Late Cretaceous [Oxfordian-Tithonian and Albian-Maastrichtian]; Antarctica [Antarctic Peninsula])

KUMAR, P.

2000a 1. Palynodating of Denwa Formation, Satpura Basin, India. *In:* Kedves, M. (editor). *Plant Cell Biology Development* (Hungary), 11: 9-18. (biostratigraphy; pollen-spores; primary data; Late Triassic [Norian-Rhaetian]; the Indian subcontinent [India])

KUMAR, P.

2000b Palynomorphs from Denwa Formation (Late Triassic), Satpura Basin, India. *Geophytology*, 29(1, 2): 99-104. (biostratigraphy; palaeoclimatology; palaeoecology; pollen-spores; primary data; Late Triassic [Carnian-Rhaetian]; the Indian subcontinent [India])

L

LARSSON, L.M.
2009 Palynostratigraphy of the Triassic-Jurassic transition in southern Sweden. *GFF (Journal of the Geological Society of Sweden)*, 131(1-2): 147-163.
(biostratigraphy; primary data; Late Triassic-Early Jurassic [Rhaetian-Sinemurian]; West Europe [Sweden])

LINDGREN, J., CURRIE, P.J., REES, J., SIVERSON, M., LINDSTRÖM, S., and ALWMARK, C.
2008 Theropod dinosaur teeth from the lowermost Cretaceous Rabekke Formation on Bornholm, Denmark. *Geobios*, 41(2): 253-262.
(biostratigraphy; dinosaurs; compilation; Early Cretaceous [Berriasian]; West Europe [Denmark])

LINDSTRÖM, S.
2013 A review of the enigmatic microalga *Tetranguladinium* Yu et al. 1983 ex Chen et al. 1988; palaeoecology, stratigraphy and palaeogeographical distribution. *Palynology*, 37(1): 48-61,
(biostratigraphy; microalgae; palaeoecology; compilation; Late Jurassic-Early Cretaceous [Tithonian-Valanginian]; West Europe [Denmark, Sweden])

LINDSTRÖM, S., VAN DE SCHOOTBRUGGE, B., DYBKJÆR, K., PEDERSEN, G.K., FIEBIG, J., NIELSEN, L.H., and RICHOZ, S.
2012 No causal link between terrestrial ecosystem change and methane release during the end-Triassic mass extinction. *Geology*, 40(6): 531-534.
(biostratigraphy; carbon cycle; geochemistry; mass extinction; palaeobiology; palaeontology; volcanism; primary data; Late Triassic-Early Jurassic [Rhaetian-Hettangian]; West Europe [England; Denmark])

LONDEIX, L., POURTOY, D., and FENTON, J.P.G.
1996 The presence of *Dinogymnium* (Dinophyceae) in Lower Cretaceous sediments from the northwest Tethys (southeast France and western Switzerland) and Gulf of Mexico

areas: stratigraphic and systematic consequences. *Review of Palaeobotany and Palynology,* 92: 367-382.
(biostratigraphy; palaeobiology; taxonomy; primary data; Early Cretaceous [Berriasian-Hauterivian]; North America [offshore Florida, southeast U.S.A.], West Europe [France, Switzerland])

M

*MANTLE, D.J., and RIDING, J.B.
2012 Palynology of the Middle Jurassic (Bajocian-Bathonian) *Wanaea verrucosa* dinoflagellate cyst zone of the North West Shelf of Australia. *Review of Palaeobotany and Palynology,* 180: 41-78.
(biostratigraphy; provincialism; taxonomy; primary data; Middle Jurassic [Bajocian-Bathonian]; Australasia [offshore Western Australia])

MEHROTRA, N.C., TEWARI, R., ARAI, M., GARCIA, M.J., and BERNADES-DE-OLIVEIRA, M.E.C.
2012 Stratigraphic ranges of dinoflagellate cysts from Cretaceous petroliferous basins of India and Brazil. *The Palaeobotanist*, 61(1): 83-102.
(biostratigraphy; compilation; Late Jurassic and Early-Late Cretaceous [Tithonian-Maastrichtian]; the Indian subcontinent [India], South America [Brazil])

MICHALÍK, J., BIROŇ, A., LINTNEROVÁ, O., GÖTZ, A.E., and RUCKWIED, K.
2010 Climate change at the Triassic/Jurassic boundary in the northwestern Tethyan realm, inferred from sections in the Tatra Mountains (Slovakia). *Acta Geologica Polonica*, 60(4): 535-548.
(biostratigraphy; clay mineralogy; geochemistry; palaeoclimate; sedimentology; primary data; Late Triassic-Early Jurassic [Rhaetian-Hettangian]; East Europe [Slovakia])

*MUNSTERMAN, D.K., VERREUSSEL, R.M.C.H., MIJNLIEFF, H.F., WITMANS, N., KERSTHOLT-BOEGEHOLD, S., and ABBINK, O.A.

2012 Revision and update of the Callovian-Ryazanian stratigraphic nomenclature in the northern Dutch offshore, i.e. Central Graben Subgroup and Scruff Group. *Netherlands Journal of Geosciences - Geologie en Mijnbouw*, 91(4): 555-590.
(biostratigraphy; lithostratigraphy; petroleum geology; sedimentology; compilation; Middle Jurassic-Early Cretaceous [Callovian-Berriasian];West Europe [offshore The Netherlands])

N

NANDI, A.
1994 Palynological, palaeobotanical and faunal studies of Upper (Mesozoic) Gondwana of Satpura Basin, M.P. *Records of the Geological Survey of India*, 127(6): 283-284.
(biostratigraphy; pollen-spores; summary; Late Triassic [Carnian-Rhaetian]; the Indian subcontinent [India])

P

PARIS, G., BEAUMONT, V., BARTOLINI, A., CLÉMENCE, M.-E., GARDIN, S., and PAGE, K.
2010 Nitrogen isotope record of a perturbed paleoecosystem in the aftermath of the end-Triassic crisis, Doniford section, SW England. *Geochemistry, Geophysics, Geosystems*, 11(8), Q08021, doi:10.1029/2010GC003161, 15 p.
(anoxia; carbon cycle; geochemistry; mass extinction; palaeobiology; palaeoecology; primary data; Early Jurassic [Hettangian]; West Europe [England])

PETERSEN, H.I., and LINDSTRÖM, S.
2012 Synchronous wildfire activity rise and mire deforestation at the Triassic–Jurassic boundary. *PLoS ONE*, 7(10): e47236. doi:10.1371/journal.pone.0047236, 15 p.
(biostratigraphy; CAMP volcanism; global change; mass extinction event; palynofacies; wildfires; primary data; open access journal; Late Triassic-Early Jurassic [Rhaetian-Sinemurian]; West Europe [Denmark, Sweden])

POPARLAN, A.M., MARICA, M.D., and NEDIANU, C.

2010 Delta Dunarii – rezervatie a biosferei (Danube Delta - biosphere reserve). *Analele Universităţii din Craiova, Seria Agricultură, Montanologie, Cadastru*, 40(2): 254-259.

(biodiversity; primary data; Middle-Late Jurassic [undifferentiated]; East Europe [Romania])

R

RAAB, M., HOROWITZ, A., and CONWAY, B.H.

1986 *Brachyphyllum lorchii* sp. nov. from the Upper Jurassic of Israel. *Review of Palaeobotany and Palynology*, 46(3-4): 227-234.

(biostratigraphy; *in-situ* study; palaeobotany; pollen; taxonomy; primary data; Middle-Late Jurassic [Callovian-Oxfordian]; Middle East [Israel])

RAUSCHER, R., and SCHULER, M.

1988 Les dinokystes, des témoins d'influences marines dans le Paléogène d'Alsace. [Dinoflagellate cysts as indicators of marine influences during the Paleogene in Alsace (NE France)]. *Bulletin des Centres de Recherches Exploration-Production Elf-Aquitaine*, 12(1): 405-425 (in French with an English abstract).

(palaeoecology; palaeogeography; reworking; primary data; Jurassic, Paleogene [undifferentiated, Bartonian-Rupelian]; West Europe [France])

RICHOZ, S., VAN DE SCHOOTBRUGGE, B., PROSS, J., PÜTTMANN, W., QUAN, T.M., LINDSTRÖM, S., HEUNISCH, C., FIEBIG, J., MAQUIL, R., SCHOUTEN, S., HAUZENBERGER, C.A., and WIGNALL, P.B.

2012 Hydrogen sulphide poisoning of shallow seas following the end-Triassic extinction. *Nature Geoscience*, 5(9): 662-667, plus online supplementary information.

(biostratigraphy; geochemistry; mass extinction; palaeobiology; palaeoceanography; primary data; Late Triassic-Early Jurassic [Rhaetian-Sinemurian]; West Europe [Germany, Luxembourg])

*RIDING, J.B.

2012 The Jurassic dinoflagellate cyst *Gonyaulacysta dentata* (Raynaud 1978) Lentin & Vozzhennikova 1990 emend. nov.: An index species for the Late Callovian to earliest Oxfordian of the northern hemisphere. *Review of Palaeobotany and Palynology*, 176-177: 68-81.
(biostratigraphy; palaeoclimatology; taxonomy; primary data; Middle-Late Jurassic [Callovian-Oxfordian]; West Europe [Scotland])

RIDING, J.B., and CRAME, J.A.
2002 Aptian to Coniacian (Early-Late Cretaceous) palynostratigraphy of the Gustav Group, James Ross Basin, Antarctica. *Cretaceous Research*, 23: 739-760.
(biostratigraphy; reworking; primary data; Late Jurassic and Early-Late Cretaceous [Oxfordian-Tithonian and Albian]; Antarctica [Antarctic Peninsula])

RIDING, J.B., and MICHOUX, D.
2013 Further observations on the Jurassic dinoflagellate cyst *Gonyaulacysta dentata* (Raynaud 1978) Lentin & Vozzhennikova 1990 emended Riding 2012. *Review of Palaeobotany and Palynology,* 196: 51-56.
(biostratigraphy; lithostratigraphy; morphology; palaeobiology; palaeoclimatology; taxonomy; compilation; primary data; Middle-Late Jurassic [Callovian-Oxfordian]; Arctic [Greenland], West Europe [Scotland])

RIDING, J.B., CRAME, J.A., DETTMANN, M.E., and CANTRILL, D.J.
1998 The age of the base of the Gustav Group in the James Ross Basin, Antarctica. *Cretaceous Research,* 19: 87-105.
(biostratigraphy; reworking; primary data; Late Jurassic and Early-Late Cretaceous [Oxfordian-Tithonian and Albian]; Antarctica [Antarctic Peninsula])

*RIDING, J.B., LENG, M.J., KENDER, S., HESSELBO, S.P., and FEIST-BURKHARDT, S.
2013 Isotopic and palynological evidence for a new Early Jurassic environmental perturbation. *Palaeogeography, Palaeoclimatology, Palaeoecology,* 374: 16-27.
(biostratigraphy; environmental change; isotope geochemistry; palaeobiology; palynofacies; pollen; primary data; Early Jurassic [Sinemurian]; West Europe [England])

S

SCHNYDER, J., BAUDIN, F., and DECONINCK, J.-F.

2009 Occurrence of organic-matter-rich beds in Early Cretaceous coastal evaporitic setting (Dorset, UK): a link to long-term palaeoclimate changes? *Cretaceous Research*, 30: 356-366.

(geochemistry; palaeoclimatology; palynofacies; primary data; Late Jurassic-Early Cretaceous [Tithonian-Berriasian]; West Europe [England])

*SCHNYDER, J., DECONINCK, J.-F., BAUDIN, F., COLOMBIÉ, C., JAN DU CHÊNE, R., GARDIN, S., GALBRUN, B., and DE RAFÉLIS, M.

2012 Purbeck beds (Late Jurassic) in the Phare de Chassiron section (Île d'Oléron, NW Aquitaine Basin, France): Refined age-assignment and long-term depositional sequences. *Geobios*, 45: 485-499 (plus online supplementary information).

(biostratigraphy; calcareous nannofossils; geochemistry; magnetostratigraphy; palynofacies; sedimentology; sequence stratigraphy; primary data; Late Jurassic [Kimmeridgian-Tithonian]; West Europe [France])

SCOUFLAIRE, Q., MARCHAND, D., BONNOT, A., COURVILLE, P., RAFFRAY, M., and HUAULT, V.

1997 Le contact Callovien-Oxfordien dans les environs de Chaignay: nouvelles données stratigraphiques et paléontologiques. *Bulletin scientifique de Bourgogne,* 49: 45-63.

(ammonites; biostratigraphy; macrofossils; primary data; Middle-Late Jurassic [Callovian-Oxfordian]; West Europe [France])

SELKOVA, L.A., and LYYUIROV, S.V.

2011 Palaeontological description of the Middle and Upper Jurassic deposits of Yareng shale-bearing region (Timan-North Ural area). *In:* Problems of modern palynology. Proceedings of the XIII All-Russian Palynological Conference, Syktyvkar, 5-8 September 2011. *Geological and Biological Institutes of the Komi Scientific Centre of the Ural Branch of the Russian Academy of Science*, 1: 212-214 (extended abstract in Russian).

(biostratigraphy; primary data; Middle-Late Jurassic [Callovian-Kimmeridgian]; Arctic [Pechora Basin, Northwest Russia])

SELKOVA, L.A., LYUROV, S.V., BURDELNAYA, N.S., and BOUSHNEV, D.A.
2009 Microfossils and geochemistry of the Middle Volgian shale-bearing deposits at the Aiyuva River (tributary of the Izhma River, Pechora River basin). *In*: Zakharov, V.A. (editor). *Jurassic System of Russia: Problems of Stratigraphy and Paleogeography*. Third all-Russian meeting. September 23-27, 2009, Saratov State University, Saratov: 213-215 (extended abstract in Russian).
(biostratigraphy; summary; Late Jurassic [Kimmeridgian-Tithonian]; Arctic [Pechora Basin, Northwest Russia])

SELKOVA, L.A., VETOSHKINA, O.S., and LYYUIROV, S.V.
2011 The results of complex studies of Jurassic outcrops near the village of Vizinga (Komi Republic, RF). *Gazette*, 9: 7-13.
(biostratigraphy; primary data; Middle-Late Jurassic [Callovian-Tithonian]; Arctic [Northwest Russia])

*SHULGINA, N.I., BURDYKINA, M.D., BASOV, V.A., and ÅRHUS, N.
1994 Distribution of ammonites, foraminifera and dinoflagellate cysts in the Lower Cretaceous reference sections of the Khatanga Basin, and Boreal Valanginian biogeography. *Cretaceous Research*, 15(1): 1-16.
(biostratigraphy; provincialism; primary data; Late Jurassic-Early Cretaceous [Tithonian-Hauterivian]; Arctic [North Siberia, Northeast Russia])

SHUREKOVA, O.V.
2009 Dynocysts (sic.) biostratigraphy of the Middle Jurassic deposits of Kaymysovskaya oil-and-gas bearing region (West Siberia). *In*: Zakharov, V.A. (editor). *Jurassic System of Russia: Problems of Stratigraphy and Paleogeography*. Third all-Russian meeting. September 23-27, 2009, Saratov State University, Saratov: 254-256 (extended abstract in Russian).
(biostratigraphy; summary; Middle Jurassic [Bathonian-Callovian]; Russia [Siberia, East Russia])

SHURYGIN, B.N., NIKITENKO, B.L., ALIFIROV, A.S., IGOLNIKOV, A.E., LEBEDEVA, N.K., PESTCHEVITSKAYA, E.B., and POPOV, A.Y.

2007 The new section of Volgian and Berriasian of Bolshehetskaya Syneclise (Western Siberia): complex paleontologic characteristic, litho-, bio- and chemostratigraphy. *In*: Zakharov, V.A. (editor). *Jurassic System of Russia: problems of stratigraphy and paleogeography. Second all-Russian meeting. Yaroslavl State Pedagogical University, September 26-30, 2007*: 253-255 (extended abstract in Russian).
(biostratigraphy; summary; Late Jurassic-Early Cretaceous [Tithonian-Berriasian]; Russia [Siberia, East Russia])

SHURYGIN, B.N., NIKITENKO, B.L., MELEDINA, S.V., DEVYATOV, V.P., LEBEDEVA, N.K., and DZYUBA, O.S.
2007 Regional stratigraphic Jurassic chart of the Eastern Siberia. *In*: Zakharov, V.A. (editor). *Jurassic System of Russia: problems of stratigraphy and paleogeography. Second all-Russian meeting. Yaroslavl State Pedagogical University, September 26-30, 2007*: 256-259 (extended abstract in Russian).
(biostratigraphy; summary; Middle-Late Jurassic [Callovian-Tithonian]; Russia [Siberia, East Russia])

SKUPIEN, P.
2008 Palynofacies and dinoflagellate cysts across Jurassic/Cretaceous boundary. *Geologia*, 34(3/1): 208-209.
(biostratigraphy; palynofacies; summary; Late Jurassic-Early Cretaceous [Tithonian-Berriasian]; East Europe [Czech Republic, Slovakia], West Europe [Austria], Arctic [North Siberia, Northeast Russia])

STILWELL, J.D., DIXON, M., LEHNER, B., and GAMARRA, S.
2011 Jurassic-Cretaceous boundary ammonite *Blanfordiceras* (Mollusca: Cephalopoda) from the Fortissimo-1 wildcat well, Browse Basin, Northwest Shelf, Australia. *Journal of Paleontology*, 85: 549-552.
(biostratigraphy; ammonites; primary data; Late Jurassic-Early Cretaceous [Tithonian-Berriasian]; Australasia [Australia])

SUAN, G., FÖLLMI, K.B., ADATTE, T., BOMOU, B., SPANGENBERG, J.E., and VAN DE SCHOOTBRUGGE, B.

2012 Major environmental change and bonebed genesis prior to the Triassic–Jurassic mass extinction. *Journal of the Geological Society*, 169: 191-200. (geochemistry; palaeoenvironmental change; sedimentology; compilation; Late Triassic [Rhaetian]; West Europe [Wales])

T

THOMAS, J.B., MARSHALL, J., MANN, A.L., SUMMONS, R.E., and MAXWELL, J.R.
1993 Dinosteranes (4,23,24-trimethylsteranes) and other biological markers in dinoflagellate-rich marine sediments of Rhaetian age. *Organic Geochemistry*, 20(1): 91-104. (geochemistry; palaeoecology; palynofacies; primary data; Late Triassic [Rhaetian]; West Europe [England])

TRUBICYNA, A.N.
2009 Upper Jurassic stratigraphy of the Tevlinsko-Russkinskoe field (Western Siberia) by palynology. *In*: Zakharov, V.A. (editor). *Jurassic System of Russia: Problems of Stratigraphy and Paleogeography*. Third all-Russian meeting. September 23-27, 2009, Saratov State University, Saratov: 243-245 (extended abstract in Russian). (biostratigraphy; summary; Late Jurassic [Oxfordian-Tithonian]; Russia [Siberia, East Russia])

TRUBICYNA, A.N.
2011 Palynological study of Jurassic sediments from the Maloshushminskaya 10527 borehole from Sub-Ural part of Western Siberia. *In:* Problems of modern palynology. Proceedings of the XIII All-Russian Palynological Conference, Syktyvkar, 5-8 September 2011. *Geological and Biological Institutes of the Komi Scientific Centre of the Ural Branch of the Russian Academy of Science*, 1: 229-233 (extended abstract in Russian). (biostratigraphy; summary; Middle-Late Jurassic [Bajocian-Kimmeridgian]; Russia [Siberia, East Russia])

TURNER, S., BEAN, L.B., DETTMANN, M., McKELLAR, J.L., McLOUGHLIN, S., and THULBORN, T.

2009 Australian Jurassic sedimentary and fossil successions: current work and future prospects for marine and non-marine correlation. *GFF (Journal of the Geological Society of Sweden),* 131(1-2): 49-70.
(biostratigraphy; compilation; Middle Jurassic [Callovian]; Australasia [Australia])

V

VAJDA, V., and WIGFORSS-LANGE, J.
2006 The Jurassic-Cretaceous transition of Southern Sweden – palynological and sedimentological interpretation. *Progress in Natural Science*, 16 (Supplement/Special Issue 1): 31-38.
(biostratigraphy; Jurassic-Cretaceous boundary; palaeoecology; pollen and spores; sedimentology; primary data; Early Cretaceous [Berriasian]; West Europe [Sweden])

VAJDA, V., and WIGFORSS-LANGE, J.
2009 Onshore Jurassic of Scandinavia and related areas. *GFF (Journal of the Geological Society of Sweden)*, 131(1-2): 5-23.
(biostratigraphy; compilation; Middle Jurassic [Aalenian-Bajocian]; Arctic [Greenland]; West Europe [Denmark, Norway])

*VAN DE SCHOOTBRUGGE, B., BACHAN, A., SUAN, G., RICHOZ, S., and PAYNE, J.L.
2013 Microbes, mud and methane: cause and consequence of recurrent Early Jurassic anoxia following the end-Triassic mass extinction. *Palaeontology*, doi: 10.1111/pala.12034, 25 p.
(acritarchs; anoxic events; black shales; carbon cycle; geochemistry; mass extinctions; palaeobiology; palaeoceanography; prasinophytes; sedimentology; primary data; Late Triassic-Early Jurassic [Rhaetian-Toarcian]; West Europe [Germany])

VIJAYA, and MURTHY, S.
2012 Palynomorphs and oribatid mites – from the Denwa Formation, Satpura Basin, Madhya Pradesh, India. *International Journal of Geosciences*, 3(1): 195-205.

(biostratigraphy; palaeoclimatology; palaeoecology; insects; fungal remains; pollen-spores; primary data; Late Triassic [Carnian-Rhatian]; the Indian subcontinent [India])

VOLKHEIMER, W., QUATTROCCHIO, M., MARTÍNEZ, M., PRÁMPARO, M., SCAFATI, L., and MELENDI, D.

2011 Palinobiotas fósiles. [Fossil palynobiotas]. *Relatorio del XVIII Congreso Geológico Argentino, Neuquén 2011*: 579-590 (in Spanish with an English abstract).
(biostratigraphy; compilation; Early Jurassic-Early Cretaceous [Toarcian-Barremian]; South America [Argentina])

W

WARRINGTON, G.

1987 *In*: Chapter 6. Triassic. *In*: Waters, R.A., and Lawrence, D.J.D. *Geology of the South Wales Coalfield, Part III, the country around Cardiff*. Memoir for 1:50 000 geological sheet 263 (England and Wales). British Geological Survey. London: Her Majesty's Stationery Office, 61-75.
(biostratigraphy; lithostratigraphy; primary data; Late Triassic [Rhaetian]; West Europe [Wales])

WARRINGTON, G.

1993 Palynology. *In*: Chapter 6. Triassic. *In*: Kellaway, G.A., and Welch, F.B.A. *Geology of the Bristol district*. Memoir for 1:63 360 geological special sheet (England and Wales). British Geological Survey. London: HMSO, 144-146.
(biostratigraphy; lithostratigraphy; primary data; Late Triassic [Rhaetian]; West Europe [England])

WARRINGTON, G.

1994 Appendix. Permo-Triassic biostratigraphic markers. *In*: Johnson, H., Warrington, G., and Stoker, S.J. 6. Permian and Triassic of the Southern North Sea. *In:* Knox, R.W.O'B., and Cordey, W.G. (editors). *Lithostratigraphic nomenclature of the UK North Sea.* British Geological Survey, Nottingham, A1.

(biostratigraphy; calcareous algae; foraminifera; lithostratigraphy; pollen and spores; compilation; Late Triassic [Rhaetian]; West Europe [North Sea])

WARRINGTON, G.

1999 Biostratigraphy. Penarth Group. *In*: Warrington, G., Wilson, A.A., Jones, N.S., Young, S.R., and Haslam, H.W. Chapter 2. Stratigraphy and sedimentology. *In*: Plant, J.A., Jones, D.G., and Haslam, H.W. (editors). *The Cheshire Basin. Basin evolution, fluid movement and mineral resources in a Permo-Triassic rift setting*. British Geological Survey, Keyworth, Nottingham, p. 37.
(biostratigraphy; lithostratigraphy; primary data; Late Triassic [Rhaetian]; West Europe [England])

WARRINGTON, G.

2004 Contribution on the Penarth Group and Barnstone Member (Lias Group), Owthorpe 1-4 boreholes. *In:* Carney, J.N., Ambrose, K., Brandon, A., Lewis, M.A., Royles, C.P., and Sheppard, T.H. Geology of the Melton Mowbray district. *Sheet Description of the British Geological Survey, 1:50 000 Series Sheet 142 Melton Mowbray (England and Wales)*. British Geological Survey, Keyworth, Nottingham, p. 25-27.
(biostratigraphy; lithostratigraphy; pollen and spores; primary data; Late Triassic-Early Jurassic [Rhaetian-Hettangian]; West Europe [England])

*WESTON, J.F., MACRAE, R.A., ASCOLI, P., COOPER, M.K.E., FENSOME, R.A., SHAW, D., and WILLIAMS, G.L.

2012 A revised biostratigraphic and well-log sequence-stratigraphic framework for the Scotian Margin, offshore eastern Canada. *Canadian Journal of Earth Sciences*, 49: 1417-1462.
(biostratigraphy; calcareous nannofossils; foraminifera; lithostratigraphy; petroleum geology; sequence stratigraphy; compilation; primary data; Late Triassic [Norian-Rhaetian] and Middle Jurassic-Pleistocene [Aalenian-undifferentiated]; North America [offshore East Canada])

WILSON, G.J., and HELBY, R.

1988 Early Cretaceous dinoflagellate assemblages from Torlesse rocks near Ethelton, North Canterbury. *New Zealand Geological Survey Record*, 35: 38-43.

(biostratigraphy; reworking; primary data; Late Jurassic-Early Cretaceous [Oxfordian-Hauterivian]; Australasia [New Zealand])

WISEMAN, J.F.

1979 Neocomian eustatic changes – biostratigraphic evidence from the Carnarvon Basin. *The APEA (Australian Petroleum Exploration Association) Journal*, 19(1): 66-73.
(biostratigraphy; eustasy; compilation; Early Cretaceous [Berriasian-Aptian]; Australasia [Western Australia])

Z

ZAKHAROV, V.A., ROGOV, M.A., NIKITENKO, B.L., and PESTCHEVITSKAYA, E.B.

2009 Key events around the J/K boundary of the Panboreal Superrealm, their correlative potential and relation with the base of the Berriassian (sic.). *In*: Hart, M.B. (editor). *8th International Symposium on the Cretaceous System, University of Plymouth, 6th-12th September 2009, Abstract Volume*, 40-41.
(biostratigraphy; summary; Late Jurassic-Early Cretaceous [Tithonian-Berriasian]; Russia [Siberia, East Russia])

ZATONSKAYA, S.G.

1975 Opisanie novykh vidov peridinei iz otlozhenii verkhnei yury i nizhnego mela Shaimskogo neftenosnogo raiona [New species of Peridiniineae from the Upper Jurassic and Lower Cretaceous deposits of the Shaimsky oil and gas region]. *Zapadno-Sibirskii Nauchno-Issledovatelskii Geologorazvedochnyi Institut (ZapSibNIGNI), Trudy*, 101: 31-35 (in Russian).
(taxonomy; primary data; Middle Jurassic-Early Cretaceous [Callovian-Berriasian]; Russia [West Siberia, East Russia])

ZOBAA, M.K., EL BEIALY, S.Y., EL-SHEIKH, H.A., and EL BESHTAWY, M.K.

2013 Jurassic-Cretaceous palynomorphs, palynofacies, and petroleum potential of the Sharib-1X and Ghoroud-1X wells, north Western Desert, Egypt. *Journal of African Earth Sciences,* 78: 51-65.

973 (biostratigraphy; palaeoecology; palynofacies; petroleum geology; thermal maturation;
974 primary data; Middle Jurassic-Late Cretaceous [Callovian-Kimmeridgian/Tithonian to
975 Albian-Cenomanian]; North Africa [Egypt])
976