

Contents

Chapter 1	HARPER, D. A. T. & SERVAIS, T. Early Palaeozoic biogeography and palaeogeography: towards a modern synthesis	1
Chapter 2	TORSVIK, T. H. & COCKS, L. R. M. New global palaeogeographical reconstructions for the Early Palaeozoic and their generation	5
Chapter 3	SERVAIS, T., CECCA, F., HARPER, D. A. T., ISOZAKI, Y. & NIOCAILL, C. M. Palaeozoic palaeogeographical and palaeobiogeographical nomenclature	25
Chapter 4	HENDRICKS, J. R. Global distributional dynamics of Cambrian clades as revealed by Burgess Shale-type deposits	35
Chapter 5	JENSEN, S., BUATOIS, L. A. & MÁNGANO, M. G. Testing for palaeogeographical patterns in the distribution of Cambrian trace fossils	45
Chapter 6	KERNER, A. & DEBRENNE, F. The role of Archaeocyatha in Cambrian biostratigraphy and biogeography	59
Chapter 7	NESTOR, H. & WEBBY, B. D. Biogeography of the Ordovician and Silurian Stromatoporoidea	67
Chapter 8	MUIR, L. A., BOTTING, J. P., CARRERA, M. G. & BERESI, M. Cambrian, Ordovician and Silurian non-stromatoporoid Porifera	81
Chapter 9	ELIAS, R. J., YOUNG, G. A., LEE, D.-J. & BAE, B.-Y. Coral biogeography in the Late Ordovician (Cincinnatian) of Laurentia	97
Chapter 10	POPOV, L. E., HOLMER, L. E., BASSETT, M. G., GHOBADI POUR, M. & PERCIVAL, I. G. Biogeography of Ordovician linguliform and craniiform brachiopods	117
Chapter 11	HARPER, D. A. T., RASMUSSEN, C. M. Ø., LILJEROTH, M., BLODGETT, R. B., CANDELA, Y., JIN, J., PERCIVAL, I. G., RONG, J.-Y., VILLAS, E. & ZHAN, R.-B. Biodiversity, biogeography and phylogeography of Ordovician rhynchonelliform brachiopods	127
Chapter 12	BUTTLER, C. J., JACKSON, P. N. W., ERNST, A. & MCKINNEY, F. K. A review of the Early Palaeozoic biogeography of bryozoans	145
Chapter 13	ZAMORA, S., LEFEBVRE, B., ÁLVARO, J. J., CLAUSEN, S., ELICKI, O., FATKA, O., JELL, P., KOUCHINSKY, A., LIN, J.-P., NARDIN, E., PARSLEY, R., ROZHNOV, S., SPRINKLE, J., SUMRALL, C. D., VIZCAÍNO, D. & SMITH, A. B. Cambrian echinoderm diversity and palaeobiogeography	157
Chapter 14	LEFEBVRE, B., SUMRALL, C. D., SHROAT-LEWIS, R. A., REICH, M., WEBSTER, G. D., HUNTER, A. W., NARDIN, E., ROZHNOV, S. V., GUENSBURG, T. E., TOUZEAU, A., NOAILLES, F. & SPRINKLE, J. Palaeobiogeography of Ordovician echinoderms	173
Chapter 15	EBBESTAD, J. O. R., FRÝDA, J., WAGNER, P. J., HORNÝ, R. J., ISAKAR, M., STEWART, S., PERCIVAL, I. G., BERTERO, V., ROHR, D. M., PEEL, J. S., BLODGETT, R. B. & HÖGSTRÖM, A. E. S. Biogeography of Ordovician and Silurian gastropods, monoplacophorans and mimospirids	199
Chapter 16	COPE, J. C. W. & KRÍŽ, J. The Lower Palaeozoic palaeobiogeography of Bivalvia	221
Chapter 17	AMLER, M. R. W. & ROGALLA, N. S. Biogeographical distribution patterns in Early Palaeozoic Rostroconchia (Mollusca)	243
Chapter 18	ERIKSSON, M. E., HINTS, O., PAXTON, H. & TONAROVÁ, P. Ordovician and Silurian polychaete diversity and biogeography	265
Chapter 19	ÁLVARO, J. J., AHLBERG, P., BABCOCK, L. E., BORDONARO, O. L., CHOI, D. K., COOPER, R. A., ERGALIEV, G. KH., GAPP, I. W., GHOBADI POUR, M., HUGHES, N. C., JAGO, J. B., KOROVNIKOV, I., LAURIE, J. R., LIEBERMAN, B. S., PATERSON, J. R., PEGEL, T. V., POPOV, L. E., RUSHTON, A. W. A., SUKHOV, S. S., TORTELLO, M. F., ZHOU, Z. & ŽYLIŇSKA, A. Global Cambrian trilobite palaeobiogeography assessed using parsimony analysis of endemism	273
Chapter 20	ADRAIN, J. M. A synopsis of Ordovician trilobite distribution and diversity	297
Chapter 21	MEIDLA, T., TINN, O., SALAS, M. J., WILLIAMS, M., SIVETER, D., VANDENBROUCKE, T. R. A. & SABBE, K. Biogeographical patterns of Ordovician ostracods	337
Chapter 22	PERRIER, V. & SIVETER, D. J. Testing Silurian palaeogeography using ‘European’ ostracod faunas	355
Chapter 23	MOLYNEUX, S. G., DELABROYE, A., WICANDER, R. & SERVAIS, T. Biogeography of early to mid Palaeozoic (Cambrian–Devonian) marine phytoplankton	365
Chapter 24	VANDENBROUCKE, T. R. A., ARMSTRONG, H. A., WILLIAMS, M., PARIS, F., SABBE, K. & ZALASIEWICZ, J. A. Late Ordovician zooplankton maps and the climate of the Early Palaeozoic Icehouse	399
Chapter 25	DANELIAN, T., NOBLE, P., POUILLE, L. & MALETZ, J. Palaeogeographical distribution of Ordovician Radiolarian occurrences: patterns, significance and limitations	407
Chapter 26	GOLDMAN, D., MALETZ, J., MELCHIN, M. J. & JUNXUAN, F. Graptolite palaeobiogeography	415

Chapter 27	KRÖGER, B. Cambrian–Ordovician cephalopod palaeogeography and diversity	429
Chapter 28	ŽIGAITĚ, Ž. & BLIECK, A. Palaeobiogeography of Early Palaeozoic vertebrates	449
Chapter 29	WELLMAN, C. H., STEEMANS, P. & VECOLI, M. Palaeophytogeography of Ordovician–Silurian land plants	461
Index		477