# Contents

Gąsiewicz, A. & Slowakiewicz, M. Late Palaeozoic environmental changes: an introduction 1

From Late Carboniferous to Early Triassic record

Wöpfler, H. Late Palaeozoic–Early Triassic deposition and climates between Samfrau and Tethys: A review 5

Wang, X., Qie, W., Sheng, Q., Qi, Y., Wang, Y., Liao, Z., Shen, S. & Ueno, K. Carboniferous and Lower Permian sedimentological cycles and biotic events of South China 33


Szurlies, M. Late Permian (Zechstein) magnetostratigraphy in Western and Central Europe 73

Case studies: Late Devonian to Early Carboniferous crisis

Bojar, A.-V., Neubauer, F. & Koebel, C. Geochemical record of Late Devonian to Early Carboniferous events, Palaeozoic of Graz, Eastern Alps, Austria 87

Case studies: Late Carboniferous to Early Permian palaeoenvironmental perturbations

Dineen, A. A., Fraiser, M. L. & Isbell, J. L. Palaeoecology and sedimentology of Carboniferous glacial and post-glacial successions in the Paganzo and Río Blanco basins of northwestern Argentina 109

Waksmundzka, M. I. Carboniferous coarsening-upward and non-gradational cyclothems in the Lublin Basin (SE Poland): palaeoclimatic implications 141

Gebhardt, U. & Hiète, M. Continental Upper Carboniferous red beds in the Variscan intermontane Saale Basin, central Germany: orbital forcing detected by wavelet analysis 177

Tabor, N. J., Romanchock, C. M., Looy, C. V., Hutton, C. L., Dimichele, W. A. & Chaney, D. S. Conservatism of Late Pennsylvanian vegetational patterns during short-term cyclic and long-term directional environmental change, western equatorial Pangea 201


Hanken, N.-M. & Nielsen, J. K. Upper Carboniferous–Lower Permian Palaeoaplysina build-ups on Svalbard: the influence of climate, salinity and sea-level 269

Isbell, J. L., Henry, L. C., Reid, C. M. & Fraiser, M. L. Sedimentology and palaeoecology of limestome-bearing mixed clastic rocks and cold-water carbonates of the Lower Permian Basal Beds at Fossil Cliffs, Maria Island, Tasmania (Australia): Insight into the initial decline of the late Palaeozoic ice age 307

Kossovaya, O., Vachard, D. & Izart, A. Climatic impact on the reef biota in the Cisuralian and Guadalupian (Permian), East European Platform 343
Case studies: Middle to Late Permian palaeoclimatic impacts


NELSEN, J. K., BLAŻEJOWSKI, B., GIESZCZ, P. & NIELSEN, J. K. Carbon and oxygen isotope records of Permian brachiopods from relatively low and high palaeolatitudes: climatic seasonality and evaporation 387

KOSSOVAYA, O. L. & KROPATCHEVA, G. S. Extinction of Guadalupian rugose corals: an example of biotic response to the Kamura event (southern Primorye, Russia) 407

KIERSNOWSKI, H. Late Permian aeolian sand seas from the Polish Upper Rotliegend Basin in the context of palaeoclimatic periodicity 431

CZAPOWSKI, G. & TOMASSI-MORAWIEC, H. Palaeogeographic and palaeoclimatic factors of salinity fluctuations in the eastern part of the Late Permian (Zechstein) European Basin: case study from the salt basin in Poland 457

GAŚIEWICZ, A. Climatic control on the Late Permian Main Dolomite (Ca2) deposition in northern margin of the Southern Permian Basin and implications to its internal cyclicity 475

SŁOWAKIEWICZ, M. & GAŚIEWICZ, A. Palaeoclimatic imprint, distribution and genesis of Zechstein Main Dolomite (Upper Permian) petroleum source rocks in Poland: Sedimentological and geochemical rationales 523

Case studies: Permian-Triassic transition

FIO, K., SREMAC, J., VLAVOVIĆ, I., VELIĆ, I. & SPANGENBERG, J. E. Permian deposits and the Permian–Triassic boundary in Croatia: palaeoclimatic implications based on palaeontological and geochemical data 539


Index 575