

GEOLOGICAL SOCIETY SPECIAL PUBLICATION NO. 275

Palaeozoic Reefs and Bioaccumulations: Climatic and Evolutionary Controls

EDITED BY

J. JAVIER ÁLVARO

University of Zaragoza, Spain and University of Lille I, France

MARKUS ARETZ

University of Cologne, Germany

FRÉDÉRIC BOULVAIN

University of Liège, Belgium

AXEL MUNNECKE

University of Erlangen-Nürnberg, Germany

DANIEL VACHARD

University of Lille I, France

and

EMMANUELLE VENNIN

University of Bourgogne, France

2007

Published by
The Geological Society
London

TECHNISCHE
INFORMATIONSBIBLIOTHEK
UNIVERSITÄTSBIBLIOTHEK
HANNOVER

CONTENTS

Foreword	vii
ÁLVARO, J. J., ARETZ, M., BOULVAIN, F., MUNNECKE, A., VACHARD, D. & VENNIN, E. Fabric transitions from shell accumulations to reefs: an introduction with Palaeozoic examples	1
CLAUSEN, S. & ÁLVARO, J. J. Lower Cambrian shelled phosphorites from the northern Montagne Noire, France	17
GANDIN, A., DEBRENNE, F. & DEBRENNE, M. Anatomy of the Early Cambrian 'La Sentinella' reef complex, Serra Scoris, SW Sardinia, Italy	29
ÁLVARO, J. J. & CLAUSEN, S. Botoman (Lower Cambrian) turbid- and clear-water reefs and associated environments from the High Atlas, Morocco	51
HUNTER, A. W., LEFEBVRE, B., RÉGNAULT, S., ROUSSEL, P. & CLAVERIE, R. A mixed ophiuroid–stylophoran assemblage (Echinodermata) from the Middle Ordovician (Llandeilian) of western Brittany, France	71
KERSHAW, S., LI, Y. & GUO, L. Micritic fabrics define sharp margins of Wenlock patch reefs (middle Silurian) in Gotland and England	87
HUBMANN, B. & SUTTNER, T. Siluro-Devonian Alpine reefs and pavements	95
MABILLE, C. & BOULVAIN, F. Sedimentology and magnetic susceptibility of the Upper Eifelian–Lower Givetian (Middle Devonian) in SW Belgium: insights into carbonate platform initiation	109
BOULVAIN, F. Frasnian carbonate mounds from Belgium: sedimentology and palaeoceanography	125
POTY, E. & CHEVALIER, E. Late Frasnian phillipsastroid biostromes in Belgium	143
ARETZ, M. & CHEVALIER, E. After the collapse of stromatopoid–coral reefs — the Famennian and Dinantian reefs of Belgium: much more than Waulsortian mounds	163
ALMAZÁN-VÁZQUEZ, E., BUITRÓN-SÁNCHEZ, B.E., VACHARD, D., MENDOZA-MADERA, C. & GÓMEZ-ESPINOSA, C. The late Atokan (Moscovian, Pennsylvanian) chaetetid accumulations of Sierra Agua Verde, Sonora (NW Mexico): composition, facies and palaeoenvironmental signals	189
BUITRÓN-SÁNCHEZ, B.E., GÓMEZ-ESPINOSA, C., ALMAZÁN-VÁZQUEZ, E. & VACHARD, D. A late Atokan regional encrinite (early late Moscovian, Middle Pennsylvanian) in the Sierra Agua Verde, Sonora state, NW Mexico	201
VENNIN, E. Coelobiontic communities in neptunian fissures of synsedimentary tectonic origin in Permian reef, southern Urals, Russia	211
WEIDLICH, O. Permian reef and shelf carbonates of the Arabian platform and Neo-Tethys as recorders of climatic and oceanographic changes	229
THÉRY, J. M., VACHARD, D. & DRANSART, E. Late Permian limestones and the Permian–Triassic boundary: new biostratigraphic, palaeobiogeographical and geochemical data in Caucasus and eastern Europe	255
ZAPALSKI, M. K., HUBERT, B. & MISTIAEN, B. Estimation of palaeoenvironmental changes: can analysis of distribution of tabulae in tabulates be a tool?	275
Index	283