

## Contents

Preface	vii
DE WIT, M. J., BRITO NEVES, B. B., TROUW, R. A. J. & PANKHURST, R. J. Pre-Cenozoic correlations across the South Atlantic region: 'the ties that bind'	1
PISAREVSKY, S. A., MURPHY, J. B., CAWOOD, P. A. & COLLINS, A. S. Late Neoproterozoic and Early Cambrian palaeogeography: models and problems	9
PEDREIRA, A. J. & DE WAELE, B. Contemporaneous evolution of the Palaeoproterozoic–Mesoproterozoic sedimentary basins of the São Francisco–Congo Craton	33
ARTHAUD, M. A., CABY, R., FUCK, R. A., DANTAS, E. L. & PARENTE, C. V. Geology of the northern Borborema Province, NE Brazil and its correlation with Nigeria, NW Africa	49
VAN SCHMUS, W. R., OLIVEIRA, E. P., SILVA FILHO, A. F., TOTEU, S. F., PENAYE, J. & GUIMARAES, I. P. Proterozoic links between the Borborema Province, NE Brazil, and the Central African Fold Belt	69
SANTOS, T. J. S., FETTER, A. H. & NETO, J. A. N. Comparisons between the northwestern Borborema Province, NE Brazil, and the southwestern Pharusian Dahomey Belt, SW Central Africa	101
DADA, S. S. Proterozoic evolution of the Nigeria–Borborema province	121
KLEIN, E. L. & MOURA, C. A. V. São Luís Craton and Gurupi Belt (Brazil): possible links with the West African Craton and surrounding Pan-African belts	137
PEDROSA-SOARES, A. C., ALKMIM, F. F., TACK, L., NOCE, C. M., BABINSKI, M., SILVA, L. C. & NETO, M. A. M. Similarities and differences between the Brazilian and African counterparts of the Neoproterozoic Araçuaí–West Congo orogen	153
MOURA, C. A. V., PINHEIRO, B. L. S., NOGUEIRA, A. C. R., GORAYEB, P. S. S. & GALARZA, M. A. Sedimentary provenance and palaeoenvironment of the Baixo Araguaia Supergroup: constraints on the palaeogeographical evolution of the Araguaia Belt and assembly of West Gondwana	173
VALERIANO, C. M., PIMENTEL, M. M., HEILBRON, M., ALMEIDA, J. C. H. & TROUW, R. A. J. Tectonic evolution of the Brasília Belt, Central Brazil, and early assembly of Gondwana	197
HEILBRON, M., VALERIANO, C. M., TASSINARI, C. C. G., ALMEIDA, J. C. H., TUPINAMBA, M., SIGA, O. & TROUW, R. A. J. Correlation of Neoproterozoic terranes between the Ribeira Belt, SE Brazil and its African counterpart: comparative tectonic evolution and open questions	211
BASEI, M. A. S., FRIMMEL, H. E., NUTMAN, A. P. & PRECIOZZI, F. West Gondwana amalgamation based on detrital zircon ages from Neoproterozoic Ribeira and Dom Feliciano belts of South America and comparison with coeval sequences from SW Africa	239
GRAY, D. R., FOSTER, D. A., MEERT, J. G., GOSCOMBE, B. D., ARMSTRONG, R., TROUW, R. A. J. & PASSCHIER, C. W. A Damara orogen perspective on the assembly of southwestern Gondwana	257
SCHMITT, R. S., TROUW, R. A. J., VAN SCHMUS, W. R. & PASSCHIER, C. W. Cambrian orogeny in the Ribeira Belt (SE Brazil) and correlations within West Gondwana: ties that bind underwater	279
PAIXAO, M. A. P., NILSON, A. A. & DANTAS, E. L. The Neoproterozoic Quatipuru ophiolite and the Araguaia fold belt, central-northern Brazil, compared with correlatives in NW Africa	297
MILANI, E. J. & DE WIT, M. J. Correlations between the classic Paraná and Cape–Karoo sequences of South America and southern Africa and their basin infills flanking the Gondwanides: du Toit revisited	319

PAZOS, P. J., BETTUCCI, L. S. & LOUREIRO, J. The Neoproterozoic glacial record in the Río de la Plata Craton: a critical reappraisal	343
MOHRIAK, W., NEMCOK, M. & ENCISO, G. South Atlantic divergent margin evolution: rift-border uplift and salt tectonics in the basins of SE Brazil	365
DE WIT, M. J., STANKIEWICZ, J. REEVES, C. Restoring Pan-African–Brasiliano connections: more Gondwana control, less Trans-Atlantic corruption	399
Index	413