

Contents

FRANCIS, J. E., CRAME, J. A. & PIRRIE, D. Cretaceous–Tertiary high-latitude palaeoenvironments, James Ross Basin, Antarctica: introduction	1
CRAME, J. A., PIRRIE, D. & RIDING, J. B. Mid-Cretaceous stratigraphy of the James Ross Basin, Antarctica	7
WHITHAM, A. G., INESON, J. R. & PIRRIE, D. Marine volcanoclastics of the Hidden Lake Formation (Coniacian) of James Ross Island, Antarctica: an enigmatic element in the history of the back-arc basin	21
HAYES, P. A., FRANCIS, J. E., CANTRILL, D. J. & CRAME, J. A. Palaeoclimate analysis of the Late Cretaceous angiosperm leaf floras, James Ross Island, Antarctica	49
POOLE, I. & CANTRILL, D. J. Cretaceous and Cenozoic vegetation of Antarctica integrating the fossil wood record	63
KRIWET, J., LIRIO, J. M., NUÑEZ, H. J., PUCEAT, E. & LÉCUYER, C. Late Cretaceous Antarctic fish diversity	83
MARTIN, J. E. Biostratigraphy of the Mosasauridae (Reptilia) from the Cretaceous of Antarctica	101
MARTIN, J. E. & CRAME, J. A. Palaeobiological significance of high-latitude Late Cretaceous vertebrate fossils from the James Ross Basin, Antarctica	109
MARENSSI, S. A. Eustatically controlled sedimentation recorded by Eocene strata of the James Ross Basin, Antarctica	125
GOIN, F. J., REGUERO, M. A., PASCUAL, R., VON KOENIGSWALD, W., WOODBURNE, M. O., CASE, J. A., MARENSSI, S. A., VIEYTES, C. & VIZCAÍNO, S. F. First gondwanatherian mammal from Antarctica	135
TAMBUSSI, C. P., ACOSTA HOSPITALECHE, C. I., REGUERO, M. A. & MARENSSI, S. A. Late Eocene penguins from West Antarctica: systematics and biostratigraphy	145
BOND, M., REGUERO, M. A., VIZCAÍNO, S. F. & MARENSSI, S. A. A new ‘South American ungulate’ (Mammalia: Litopterna) from the Eocene of the Antarctic Peninsula	163
CASE, J. A. The late Middle Eocene terrestrial vertebrate fauna from Seymour Island: the tails of the Eocene Patagonian size distribution	177
HAMBREY, M. J. & SMELLIE, J. L. Distribution, lithofacies and environmental context of Neogene glacial sequences on James Ross and Vega islands, Antarctic Peninsula	187
Index	201