

# Contents

Preface	vii
HOWELL, J. A., SCHWARZ, E., SPALLETTI, L. A. & VEIGA, G. D. The Neuquén Basin: an overview	1
<b>Geodynamic and tectonic evolution</b>	
RAMOS, V. A. & FOLGUERA, A. Tectonic evolution of the Andes of Neuquén: constraints derived from the magmatic arc and foreland deformation	15
ZAPATA, T. & FOLGUERA, A. Tectonic evolution of the Andean Fold and Thrust Belt of the southern Neuquén Basin, Argentina	37
<b>Biostratigraphy</b>	
AGUIRRE-URRETA, M. B., RAWSON, P. F., CONCHEYRO, G. A., BOWN, P. R. & OTTONE, E. G. Lower Cretaceous (Berriasian–Aptian) biostratigraphy of the Neuquén Basin	57
<b>Sedimentary geology and sequence stratigraphy in continental to shallow-marine deposits</b>	
MCILROY, D., FLINT, S., HOWELL, J. A. & TIMMS, N. Sedimentology of the tide-dominated Jurassic Lajas Formation, Neuquén Basin, Argentina	83
SCHWARZ, E. & HOWELL, J. A. Sedimentary evolution and depositional architecture of a lowstand sequence set: the Lower Cretaceous Mulichinco Formation, Neuquén Basin, Argentina	109
VEIGA, G. D., HOWELL, J. A. & STRÖMBÄCK, A. Anatomy of a mixed marine–non-marine lowstand wedge in a ramp setting. The record of a Barremian–Aptian complex relative sea-level fall in the central Neuquén Basin, Argentina	139
STRÖMBÄCK, A., HOWELL, J. A. & VEIGA, G. D. The transgression of an erg – sedimentation and reworking/soft-sediment deformation of aeolian facies: the Cretaceous Troncoso Member, Neuquén Basin, Argentina	163
<b>Sedimentary geology and cyclostratigraphy in offshore deposits</b>	
DOYLE, P., POIRÉ, D. G., SPALLETTI, L. A., PIRRIE, D., BRENCHLEY, P. & MATHEOS, S. D. Relative oxygenation of the Tithonian–Valanginian Vaca Muerta–Chachao formations of the Mendoza Shelf, Neuquén Basin, Argentina	185
SCASSO, R. A., ALONSO, M. S., LANÉS, S., VILLAR, H. J. & LAFFITTE, G. Geochemistry and petrology of a Middle Tithonian limestone–marl rhythmite in the Neuquén Basin, Argentina: depositional and burial history	207

SAGASTI, G. Hemipelagic record of orbitally-induced dilution cycles in Lower Cretaceous sediments of the Neuquén Basin	231
TYSON, R. V., ESHERWOOD, P. & PATTISON, K. A. Organic facies variations in the Valanginian–mid-Hauterivian interval of the Agrio Formation (Chos Malal area, Neuquén, Argentina): local significance and global context	251
<b>Palaeoecology and palaeobiology</b>	
MORGANS-BELL, H. S. & MCILROY, D. Palaeoclimatic implications of Middle Jurassic (Bajocian) coniferous wood from the Neuquén Basin, west-central Argentina	267
GASPARINI, Z. & FERNÁNDEZ, M. Jurassic marine reptiles of the Neuquén Basin: records, faunas and their palaeobiogeographic significance	279
LAZO, D. G., CICHOWOLSKI, M., RODRÍGUEZ, D. L. & AGUIRRE-URRETA, M. B. Lithofacies, palaeoecology and palaeoenvironments of the Agrio Formation, Lower Cretaceous of the Neuquén Basin, Argentina	295
CORIA, R. A. & SALGADO, L. Mid-Cretaceous turnover of saurischian dinosaur communities: evidence from the Neuquén Basin	317
Index	329