

## Contents

ix Preface

### **Models and Tests of Sea-Level Change**

- 3 Sequence stratigraphy, sea-level change, and significance for the deep sea  
*Bilal U. Haq*

- 41 Application of global sea-level and sequence-stratigraphic models in Southern Hemisphere Neogene strata from New Zealand  
*R.M. Carter, S.T. Abbott, C.S. Fulthorpe, D.W. Haywick and R.A. Henderson*

### **Rates, Magnitudes and Processes of Sea-Level Change**

- 69 High-level marine terraces in western and southern New Zealand: indicators of the tectonic tempo of an active continental margin  
*D.G. Bishop*
- 79 Rates and magnitudes of late Cenozoic vertical movements in the Indonesian Banda Arc and the distinction of eustatic effects  
*A.R. Fortuin and M.E.M. de Smet*
- 91 Depositional architecture of Quaternary fan-delta deposits of the Andean fore-arc: relative sea-level changes as a response to aseismic ridge subduction  
*S. Flint, P. Turner and E.J. Jolley*
- 105 Volcano-tectonic control of offshore to tidal-flat regressive cycles from the Dunquin Group (Silurian) of southwest Ireland  
*R.J. Sloan and B.P.J. Williams*

### **Neogene—Recent Margins**

- 123 Sea-level changes and sedimentary evolution during the Quaternary in the northwest Aegean continental margin, Greece  
*Vasilios Lykousis*

- 133 Sequence stratigraphy on the shelf and upper slope in response to the latest Pleistocene–Holocene sea-level changes off Sendai, northeast Japan  
*Yoshiki Saito*
- 151 Interplay between arc tectonics and sea-level changes as revealed by sedimentation patterns in the Aleutians  
*Maxwell R. Dobson, David W. Scholl and Andrew J. Stevenson*
- 165 Neogene interaction of tectonic and glacial processes at the Pacific margin of the Antarctic Peninsula  
*R.D. Larter and P.F. Barker*
- Ancient Arc and Transform Margins**
- 189 Relative importance of regional tectonics and eustasy for the Mesozoic of the Andes  
*A. Hallam*
- 201 Cyclic sedimentation in three Neogene basins in California  
*J. Robert Dodd and Robert J. Stanton, Jr*
- 217 Anatomy of an evolving island arc: tectonic and eustatic control in the south Central American fore-arc area  
*Hartmut Seyfried, Allan Astorga, Hubert Amann, Claudio Calvo, Wolfgang Kolb, Hannelore Schmidt and Jutta Winsemann*
- 241 Depositional sequences and sequence boundaries in fore-arc coastal embayments: case histories from Central America  
*Hannelore Schmidt and Hartmut Seyfried*
- 259 Depositional sequences associated with equilibrium coastlines in the Neogene of southwestern Nicaragua  
*Wolfgang Kolb and Hannelore Schmidt*
- 273 Response of deep-water fore-arc systems to sea-level changes, tectonic activity and volcanoclastic input in Central America  
*Jutta Winsemann and Hartmut Seyfried*
- 293 The role of tectonics and eustasy in the evolution of a marginal basin: Cretaceous–Tertiary Larsen Basin, Antarctica  
*D. Pirrie, A.G. Whitham and J.R. Ineson*

- 307 The role of eustasy in the development of a regional shallowing event in a tectonically active basin: Fossil Bluff Group (Jurassic–Cretaceous), Alexander Island, Antarctica  
*P.J. Butterworth*
- 331 The role of local tectonics versus global sea-level change in the Neogene evolution of the Cyprus active margin  
*A.H.F. Robertson, S. Eaton, E.J. Follows and J.E. McCallum*

### **Foreland, Foredeep and Cratonic Basins**

- 373 Miocene depositional sequences within a tectonically controlled transgressive–regressive cycle  
*Philippe Crumeyrolle, Jean-Loup Rubino and Georges Clauzon*
- 391 Carbonate–siliciclastic depositional systems in the Paleogene of the South Pyrenean foreland basin: a sequence-stratigraphic approach  
*H.P. Luterbacher, H. Eichenseer, Ch. Betzler and A.M. van den Hurk*
- 409 High-frequency relative sea-level oscillations in Upper Cretaceous shelf clastics of the Alberta foreland basin: possible evidence for a glacio-eustatic control?  
*A. Guy Plint*
- 429 Jurassic–Cretaceous marine oscillations and geometry of back-arc basin fill, central Argentine Andes  
*Leonardo Legarreta and Miguel A. Uliana*
- 451 Sea-level change around the margins of the Catania–Gela Trough and Hyblean Plateau, southeast Sicily (African–European plate convergence zone): a problem of Plio-Quaternary plate buoyancy?  
*Martyn Pedley and Mario Grasso*
- 465 The Ordovician back-arc to foreland successor basin in the Argentinian–Chilean Puna: tectono-sedimentary trends and sea-level changes  
*Heinrich Bahlburg*
- 485 Sedimentation and tectonics in the Dinantian limestones of South Wales  
*A.T.S. Ramsay*
- 513 Index