

# Contents

Preface: SNELLING, N. J., vii

## Part 1: Geochronology and the geological time-scale

- SNELLING, N. J. Geochronology and the geological record, 3
- MOORBATH, S. & TAYLOR, P. N. Precambrian geochronology and the geological record, 10
- WRIGHT, A. E. Subdivision of the Precambrian, 29
- ODIN, G. S. Some key rules for the calibration of the numerical time-scale, 41
- COWIE, J. W. & JOHNSON, M. R. W. Late Precambrian and Cambrian geological time-scale, 47
- ODIN, G. S., GALE, N. H. & DORÉ, F. Radiometric dating of Late Precambrian times, 65
- MCKERROW, W. S., LAMBERT, R. ST J. & COCKS, L. R. M. The Ordovician, Silurian and Devonian periods, 73
- GALE, N. H. Numerical calibration of the Palaeozoic time-scale; Ordovician, Silurian and Devonian periods, 81
- KUNK, M. J., SUTTER, J., OBRADOVICH, J. D. & LANPHERE, M. A. Age of biostratigraphic horizons within the Ordovician and Silurian systems, 89
- ODIN, G. S. Remarks on the numerical scale of Ordovician to Devonian times, 93
- FORSTER, S. C. & WARRINGTON, G. Geochronology of the Carboniferous, Permian and Triassic, 99
- ODIN, G. S. Comments on the geochronology of the Carboniferous to Triassic times, 114
- HALLAM, A., HANCOCK, J. M., LA BREQUE, J. L., LOWRIE, W. & CHANNELL, J. E. T. Jurassic to Paleogene: Part 1. Jurassic and Cretaceous geochronology and Jurassic to Paleogene magnetostratigraphy, 118
- BERGGREN, W. A., KENT, D. V. & FLYNN, J. J. Jurassic to Paleogene: Part 2. Paleogene geochronology and chronostratigraphy, 141

- ODIN, G. S. Concerning the numerical ages proposed for the Jurassic and Cretaceous geochronology, 196
- JENKINS, D. J., BOWEN, D. Q., ADAMS, C. G., SHACKLETON, N. J. & BRASSELL, S. C. The Neogene: Part 1, 199.
- BERGGREN, W. A., KENT, D. V. & VAN COUVERING, J. A. The Neogene: Part 2. Neogene geochronology and chronostratigraphy, 211
- SNELLING, N. J. An interim time-scale, 261

## Part 2: The geological record

- CURRY, D. Oceanic magnetic lineaments and the calibration of the late Mesozoic-Cenozoic time-scale, 269
- HOUSE, M. R. The ammonoid time-scale and the ammonoid evolution, 273
- GREGOR, C. B. The mass-age distribution of Phanerozoic sediments, 284
- CLAUER, N. & HOFFERT, M. Sr isotopic constraints for the sedimentation rate of deep sea red clays in the southern Pacific Ocean, 290
- RAYNOLDS, R. G. H. & JOHNSON, G. D. Rates of Neogene depositional and deformational processes, north-west Himalayan foredeep margin, Pakistan, 297
- JÄGER, E. Geochronology in the Central Alps; dating of metamorphism, subsequent cooling with Oligocene glaciation, and the development of the recent landscape, 312
- DODSON, M. H. & MCCLELLAND-BROWN, E. Isotopic and palaeomagnetic evidence for rates of cooling, uplift and erosion, 315
- BROWN, G. C. Processes and problems in the continental lithosphere: geological history and physical implications, 326

Index, 335