

Contents

MURPHY, J. B., KEPPIE, J. D. & HYNES, A. J. Ancient orogens and modern analogues: an introduction	1
Mesozoic–Cenozoic orogens	
COLE, J. W. & SPINKS, K. D. Caldera volcanism and rift structure in the Taupo Volcanic Zone, New Zealand	9
RAMOS, V. A. & FOLGUERA, A. Andean flat-slab subduction through time	31
MANDUJANO-VELAZQUEZ, J. J. & KEPPIE, J. D. Middle Miocene Chiapas fold and thrust belt of Mexico: a result of collision of the Tehuantepec Transform/Ridge with the Middle America Trench	55
DOSTAL, J., KEPPIE, J. D. & FERRI, F. Extrusion of high-pressure Cache Creek rocks into the Triassic Stikinia–Quesnellia arc of the Canadian Cordillera: implications for terrane analysis of ancient orogens and palaeogeography	71
STAMPFLI, G. M. & HOCHARD, C. Plate tectonics of the Alpine realm	89
JOHNSTON, S. T. & MAZZOLI, S. The Calabrian Orocline: buckling of a previously more linear orogen	113
DILEK, Y. & SANDVOL, E. Seismic structure, crustal architecture and tectonic evolution of the Anatolian–African Plate Boundary and the Cenozoic Orogenic Belts in the Eastern Mediterranean Region	127
Palaeozoic/Neoproterozoic orogens	
PUCHKOV, V. N. The evolution of the Uralian orogen	161
HOFMANN, M., LINNEMANN, U., GERDES, A., ULLRICH, B. & SCHAUER, M. Timing of dextral strike-slip processes and basement exhumation in the Elbe Zone (Saxo-Thuringian Zone): the final pulse of the Variscan Orogeny in the Bohemian Massif constrained by LA-SF-ICP-MS U–Pb zircon data	197
PEREIRA, M. F., CHICHORRO, M., WILLIAMS, I. S., SILVA, J. B., FERNÁNDEZ, C., DÍAZ-AZPÍROZ, M., APRAIZ, A. & CASTRO, A. Variscan intra-orogenic extensional tectonics in the Ossa–Morena Zone (Évora–Aracena–Lora del Río metamorphic belt, SW Iberian Massif): SHRIMP zircon U–Th–Pb geochronology	215
NANCE, R. D., KEPPIE, J. D., MILLER, B. V., MURPHY, J. B. & DOSTAL, J. Palaeozoic palaeogeography of Mexico: constraints from detrital zircon age data	239
VAN STAAL, C. R., WHALEN, J. B., VALVERDE-VAQUERO, P., ZAGOREVSKI, A. & ROGERS, N. Pre-Carboniferous, episodic accretion-related, orogenesis along the Laurentian margin of the northern Appalachians	271
MARTÍNEZ, S. S., ARENAS, R., FERNÁNDEZ-SUÁREZ, J. & JEFFRIES, T. E. From Rodinia to Pangaea: ophiolites from NW Iberia as witness for a long-lived continental margin	317
MURPHY, J. B., GUTIÉRREZ-ALONSO, G., NANCE, R. D., FERNÁNDEZ-SUÁREZ, J., KEPPIE, J. D., QUESADA, C., DOSTAL, J. & BRAID, J. A. Rheic Ocean mafic complexes: overview and synthesis	343

Proterozoic orogens

EVANS, D. A. D. The palaeomagnetically viable, long-lived and all-inclusive Rodinia supercontinent reconstruction	371
RIVERS, T. The Grenville Province as a large hot long-duration collisional orogen – insights from the spatial and thermal evolution of its orogenic fronts	405
OCCHIPINTI, S. A. & REDDY, S. M. Neoproterozoic reworking of the Palaeoproterozoic Capricorn Orogen of Western Australia and implications for the amalgamation of Rodinia	445
CORRIGAN, D., PEHRSSON, S., WODICKA, N. & DE KEMP, E. The Palaeoproterozoic Trans-Hudson Orogen: a prototype of modern accretionary processes	457
Index	481