

Contents

Acknowledgements	vii
TRELOAR, P. J., SEARLE, M. P., KHAN, M. A. & JAN, M. Q. Tectonics of the Nanga Parbat syntaxis and the western Himalaya: an introduction	1
CAPORALI, A. The gravity field of the Karakoram Mountain Range and surrounding areas	7
TRELOAR, P. J., GEORGE M. T. & WHITTINGTON, A. G. Mafic sheets from Indian plate gneisses in the Nanga Parbat syntaxis: their significance in dating crustal growth and metamorphic and deformation events	25
BUTLER, R. W. H. Structural evolution of the western margin of the Nanga Parbat massif, Pakistan Himalaya: insights from the Raikhot–Liachar area	51
EDWARDS, M. A., KIDD, W. S. F., KHAN, M. A. & SCHNEIDER, D. A. Tectonics of the SW margin of the Nanga Parbat–Haramosh massif	77
ARGLES, T. W. The evolution of the Main Mantle Thrust in the Western Syntaxis, Northern Pakistan	101
BUTLER, R. W. H., WHEELER, J., TRELOAR, P. J. & JONES, C. Geological structure of the southern part of the Nanga Parbat massif, Pakistan Himalaya, and its tectonic implications	123
TRELOAR, P. J., REX, D. C., GUISE, P. G., WHEELER, J., HURFORD, A. J. & CARTER, A. Geochronological constraints on the evolution of the Nanga Parbat syntaxis, Pakistan Himalaya	137
SHRODER, J. F. & BISHOP, M. P. Unroofing of the Nanga Parbat Himalaya	163
BISHOP, M. P. & SHRODER, J. F. Remote sensing and geomorphometric assessment of topographic complexity and erosion dynamics in the Nanga Parbat massif	181
WHITTINGTON, A., HARRIS, N. B. W., AYRES, M. W. & FOSTER, G. Tracing the origins of the western Himalaya: an isotopic comparison of the Nanga Parbat massif and Zaskar Himalaya	201
BURG, J.-P. & PODLADCHIKOV, Y. From buckling to asymmetric folding of the continental lithosphere: numerical modelling and application to the Himalayan syntaxes	219
ZANCHI, A., POLI, S., FUMAGALLI, P. & GAETANI, M. Mantle exhumation along the Tirich Mir Fault Zone, NW Pakistan: pre-mid-Cretaceous accretion of the Karakoram terrane to the Asian margin	237
WEINBERG, R. F., DUNLAP, W. J. & WHITEHOUSE, M. New field, structural and geochronological data from the Shyok and Nubra valleys, northern Ladakh: linking Kohistan to Tibet	253
HILDEBRAND, P. R., SEARLE, M. P., SHAKIRULLAH, ZAFARALI KHAN & VAN HEIJST, H. J. Geological evolution of the Hindu Kush, NW Frontier Pakistan: active margin to continent–continent collision zone	277
ARBARET, L., BURG, J.-P., ZEILINGER, G., CHAUDHRY, N., HUSSAIN, S. & DAWOOD, H. Pre-collisional anastomosing shear zones in the Kohistan ark, NW Pakistan	295
YAMAMOTO, H. & NAKAMURA, E. Timing of magmatic and metamorphic events in the Jijal complex of the Kohistan arc deduced from Sm–Nd dating of mafic granulites	313
ANCZKIEWICZ, R. & VANCE, D. Isotopic constraints on the evolution of metamorphic conditions in the Jijal–Patan complex and the Kamila Belt of the Kohistan arc, Pakistan Himalaya	321
ROBERTSON, A. H. F. Formation of mélanges in the Indus Suture Zone, Ladakh Himalaya by successive subduction-related, collisional and post-collisional processes during Late Mesozoic–Late Tertiary time	333

DiPIETRO, J. A., HUSSAIN, A., AHMAD, I. & KHAN, M. A. The Main Mantle Thrust in Pakistan: its character and extent	375
CORFIELD, R. I. & SEARLE, M. P. Crustal shortening estimates across the north Indian continental margin, Ladakh, NW India	395
LOMBARDO, B., ROLFO R. & COMPAGNONI, R. Glaucophane and barroisite eclogites from the Upper Kaghan nappe: implications for the metamorphic history of the NW Himalaya	411
FONTAN, D., SCHOUPPE, M., HUNZIKER, C. J., MARTINOTTI, G. & VERKAERAN, J. Metamorphic evolution, ^{40}Ar - ^{39}Ar chronology and tectonic model for the Neelum valley, Azad Kashmir, NE Pakistan	431
ABBASI, I. A. & FRIEND, P. F. Exotic conglomerates of the Neogene Siwalik succession and their implications for the tectonic and topographic evolution of the Western Himalaya	455
BADSHAH, M. S., GNOS, E., JAN, M. Q. & AFRIDI, M. I. Stratigraphic and tectonic evolution of the northwestern Indian plate and Kabul Block	467
Index	477