

Contents

Preface	vi
Chapter 1 BANDOPADHYAY, P. C. Introduction and history of mapping and research	1
Chapter 2 BANDOPADHYAY, P. C. & CARTER, A. Introduction to the geography and geomorphology of the Andaman–Nicobar Islands	9
Chapter 3 CLIFT, P. D. Regional context of the geology of the Andaman–Nicobar accretionary ridge	19
Chapter 4 MORLEY, C. K. Cenozoic rifting, passive margin development and strike-slip faulting in the Andaman Sea: a discussion of established v. new tectonic models	27
Chapter 5 MORLEY, C. K. & SEARLE, M. Regional tectonics, structure and evolution of the Andaman–Nicobar Islands from ophiolite formation and obduction to collision and back-arc spreading	51
Chapter 6 BANDOPADHYAY, P. C. & CARTER, A. Geological framework of the Andaman–Nicobar Islands	75
Chapter 7 GHOSH, B., BANDYOPADHYAY, D. & MORISHITA, T. Andaman–Nicobar Ophiolites, India: origin, evolution and emplacement	95
Chapter 8 BANDOPADHYAY, P. C. & CARTER, A. Mithakhari deposits	111
Chapter 9 BANDOPADHYAY, P. C. & CARTER, A. Submarine fan deposits: petrography and geochemistry of the Andaman Flysch	133
Chapter 10 LIMONTA, M., RESENTINI, A., CARTER, A., BANDOPADHYAY, P. C. & GARZANTI, E. Provenance of Oligocene Andaman sandstones (Andaman–Nicobar Islands): Ganga–Brahmaputra or Irrawaddy derived?	141
Chapter 11 BANDOPADHYAY, P. C. & CARTER, A. The Archipelago Group: current understanding	153
Chapter 12 BANDOPADHYAY, P. C. Inner-arc volcanism: Barren and Narcondam islands	167
Chapter 13 SINGH, S. C. & MOEREMANS, R. Anatomy of the Andaman–Nicobar subduction system from seismic reflection data	193
Chapter 14 CARTER, A. & BANDOPADHYAY, P. C. Seismicity of the Andaman–Nicobar Islands and Andaman Sea	205
Chapter 15 CARTER, A. & BANDOPADHYAY, P. C. The 26 December 2004 earthquake and tsunami	215
Chapter 16 BANDOPADHYAY, P. C., GHOSH, B. & CARTER, A. Natural resources	225
Index	233