

Contents

Preface	vii
Introduction to the reprint	ix
Recent research developments	xi
ROBERTSON, A. H. F. & DIXON, J. E. Introduction: aspects of the geological evolution of the Eastern Mediterranean	1
1. Palaeotethys	
<i>Editor's introduction</i>	75
ŞENGÖR, A. M. C., YILMAZ, Y. & SUNGURLU, O. Tectonics of the Mediterranean Cimmerides: nature and evolution of the western termination of Palaeo-Tethys	77
MONOD, O. & AKAY, E. Evidence for a Late Triassic-Early Jurassic orogenic event in the Taurides	113
KEREY, I. E. Facies and tectonic setting of the Upper Carboniferous rocks of northwestern Turkey	123
DEMIRTASLI, E. Stratigraphic evidence of Variscan and early Alpine tectonics in southern Turkey	129
2. Neotethys: Levant and North African offshore	
<i>Editor's introduction</i>	147
DELAUNE-MAYERE, M. Evolution of a Mesozoic passive continental margin: Baër-Bassit (NW Syria)	151
SESTINI, G. Tectonic and sedimentary history of the NE African margin (Egypt-Libya)	161
GVIRTZMAN, G. & WEISSBROD, T. The Hercynian geanticline of Helez and the Late Palaeozoic history of the Levant	177
GARFUNKEL, Z. & DERIN, B. Permian-early Mesozoic tectonism and continental margin formation in Israel and its implications for the history of the Eastern Mediterranean	187
DRUCKMAN, Y. Evidence for Early-Middle Triassic faulting and possible rifting from the Helez Deep Borehole in the coastal plain of Israel	203
ABED, A. M. Emergence of Wadi Mujib (Central Jordan) during Lower Cenomanian time and its regional tectonic implications	213
HIRSCH, F. The Arabian sub-plate during the Mesozoic	217
DELALOYE, M. & WAGNER, J.-J. Ophiolites and volcanic activity near the western edge of the Arabian plate	225
3. Neotethys: Turkey	
<i>Editor's introduction</i>	235
POISSON, A. The extension of the Ionian trough into southwestern Turkey	241
ROBERTSON, A. H. F. & WOODCOCK, N. H. The SW segment of the Antalya complex, Turkey as a Mesozoic-Tertiary Tethyan continental margin	251
WALDRON, J. W. F. Structural history of the Antalya Complex in the 'Isparta angle', Southwest Turkey	273
HAYWARD, A. B. Miocene clastic sedimentation related to the emplacement of the Lycian Nappes and the Antalya Complex, SW Turkey	287

WHITECHURCH, H., JUTEAU, T. & MONTIGNY, R. Role of the Eastern Mediterranean ophiolites (Turkey, Syria, Cyprus) in the history of the Neo-Tethys	301
REUBER, I. Mylonitic ductile shear zones within tectonites and cumulates as evidence for an oceanic transform fault in the Antalya ophiolite, SW Turkey	319
YILMAZ, P. O. Fossil and K-Ar data for the age of the Antalya Complex, SW Turkey	335
RICOU, L. E., MARCOUX, J. & WHITECHURCH, H. The Mesozoic organization of the Taurides: one or several ocean basins?	349
MICHARD, A., WHITECHURCH, H., RICOU, L. E., MONTIGNY, R. & YAZGAN, E. Tauric subduction (Malatya-Elazig provinces) and its bearing on tectonics of the Tethyan realm in Turkey	361
AKTAS, G. & ROBERTSON, A. H. F. The Maden Complex, SE Turkey: evolution of a Neotethyan active margin	375
HELVACI, C. & GRIFFIN, W. L. Rb-Sr geochronology of the Bitlis Massif, Avnik (Bingöl) area, SE Turkey	403
AKINCI, Ö. T. The Eastern Pontide volcano-sedimentary belt and associated massive sulphide deposits	415
OKAY, A. I. & ÖZGÜL, N. HP/LT metamorphism and the structure of the Alanya Massif, Southern Turkey: an allochthonous composite tectonic sheet	429
NORMAN, T. N. The role of the Ankara Melange in the development of Anatolia (Turkey)	441
TANKUT, A. Basic and ultrabasic rocks from the Ankara Melange, Turkey	449
OKAY, A. I. Distribution and characteristics of the north-west Turkish blueschists	455
GÖRÜR, N., OKTAY, F. Y., SEYMEN, I. & SENGÖR, A. M. C. Palaeo-tectonic evolution of the Tuzgözü basin complex, Central Turkey: sedimentary record of a Neo-Tethyan closure	467
LAUER, J. P. Geodynamic evolution of Turkey and Cyprus based on palaeomagnetic data	483
4. Neotethys: Greece and the Balkans	
<i>Editor's introduction</i>	493
HALL, R., AUDLEY-CHARLES, M. G. & CARTER, D. J. The significance of Crete for the evolution of the Eastern Mediterranean	499
BONNEAU, M. Correlation of the Hellenides nappes in the south-east Aegean and their tectonic reconstruction	517
OKRUSCH, M., RICHTER, P. & KATSIKATSOS, G. High-pressure rocks of Samos, Greece	529
KATAGAS, C. G. High pressure metamorphism in Ghiaros Island, Cyclades, Greece	537
RIDLEY, J. The significance of deformation associated with blueschist facies metamorphism on the Aegean island of Syros	545
PAPANIKOLAOU, D. J. The three metamorphic belts of the Hellenides: a review and a kinematic interpretation	551
PE-PIPER, G. & PIPER, D. J. W. Tectonic setting of the Mesozoic Pindos Basin of the Peloponnese, Greece	563
KEMP, A. E. S. & MCCAIG, A. M. Origins and significance of rocks in an imbricate thrust zone beneath the Pindos ophiolite, northwestern Greece	569

MOUNTRAKIS, D. Structural evolution of the Pelagonian zone in northwestern Macedonia, Greece	581
JACOBSHAGEN, V. & WALLBRECHER, E. Pre-Neogene nappe structure and metamorphism of the North Sporades and the southern Pelion peninsula	591
DIXON, J. E. & DIMITRIADIS, S. Metamorphosed ophiolitic rocks from the Serbo-Macedonian Massif, near Lake Volvi, north-east Greece	603
SPRAY, J. G., BÉBIEN, J., REX, D. C. & RODDICK, J. C. Age constraints on the igneous and metamorphic evolution of the Hellenic-Dinaric ophiolites	619
SMITH, A. G. & SPRAY, J. G. A half-ridge transform model for the Hellenic-Dinaric ophiolites	629
MÁRTON, E. Tectonic implications of palaeomagnetic results for the Carpatho-Balkan and adjacent areas	645
5. Neogene	
<i>Editor's introduction</i>	655
STEININGER, F. F. & RÖGL, F. Paleogeography and palinspastic reconstructions of the Neogene of the Mediterranean and Paratethys	659
KISSEL, C., JAMET, M. & LAJ, C. Palaeomagnetic evidence of Miocene and Pliocene rotational deformations of the Aegean Area	669
KONDOUPOULOU, D. & LAUER, J. P. Palaeomagnetic data from Tertiary units of the north Aegean zone	681
FYTIKAS, M., INNOCENTI, F., MANETTI, P., MAZZUOLI, R., PECCERILLO, A. & VILLARI, L. Tertiary to Quaternary evolution of volcanism in the Aegean region	687
MYRIANTHIS, M. L. Graben formation and associated seismicity in the Gulf of Corinth (Central Greece)	701
LYBERIS, N. Tectonic evolution of the North Aegean trough	709
LE PICHON, X., LYBERIS, N. & ALVAREZ, F. Subsidence history of the North Aegean Trough	727
JACKSON, J. & MCKENZIE, D. Rotational mechanisms of active deformation in Greece and Iran	743
RIDLEY, J. Listric normal faulting and the reconstruction of the synmetamorphic structural pile of the Cyclades	755
BARKA, A. A. & HANCOCK, P. L. Neotectonic deformation patterns in the convex-northwards arc of the North Anatolian fault zone	763
QUENNELL, A. M. The Western Arabia rift system	775
JASKO, S. On the Neogene development of the Eastern Mediterranean basins	789
CHORIANOPOULOU, P., GALEOS, A. & IOAKIM, C. H. Pliocene lacustrine sediments in the volcanic succession of Almopias, Macedonia, Greece	795
CRAMP, A., COLLINS, M. B., WAKEFIELD, S. J. & BANNER, F. T. Sapropelic layers in the NW Aegean Sea	807
CHIOTIS, E. D. A middle Miocene thermal event in northern Greece confirmed by coalification measurements	815
FABRICIUS, F. H. Neogene to Quaternary geodynamics of the area of the Ionian Sea and surrounding land masses	819
Index	825