

Contents

Preface	vii
MORRIS, A. & TARLING, D. H. Palaeomagnetism and tectonics of the Mediterranean region: an introduction	1
Western Mediterranean	
KIRKER, A. & MCCLELLAND, E. Application of net tectonic rotations and inclination analysis to a high-resolution palaeomagnetic study in the Betic Cordillera	19
VILLALAÍN, J. J., OSETE, M. L., VEGAS, R., GARCÍA-DUEÑAS, V. & HELLER, F. The Neogene remagnetization in the western Betics: a brief comment on the reliability of palaeomagnetic directions	33
FEINBERG, H., SADDIQI, O. & MICHARD, A. New constraints on the bending of the Gibraltar Arc from palaeomagnetism of the Ronda peridotites (Betic Cordilleras, Spain)	43
KHATTACH, D., NAJID, D., HAMOUMI, N. & TARLING, D. H. Palaeomagnetic studies in Morocco: tectonic implications for the Meseta and Anti-Atlas since the Permian	53
REY, D., TURNER, P. & RAMOS, A. Palaeomagnetism and magnetostratigraphy of the Middle Triassic in the Iberian Ranges (Central Spain)	59
JUÁREZ, M. T., OSETE, M. L., VEGAS, R., LANGEREIS, C. G. & MELÉNDEZ, G. Palaeomagnetic study of Jurassic limestones from the Iberian Range (Spain): tectonic implications	83
GARCÉS, M., PARÉS, J. M. & CABRERA, L. Inclination error linked to sedimentary facies in Miocene detrital sequences from the Vallès–Penedès Basin (NE Spain)	91
KELLER, P. & GEHRING, A. U. Consequences of post-collisional deformation on the reconstruction of the East Pyrenees	101
PEREIRA, J. L., RAPALINI, A., TARLING, D. H. & FONSECA, J. Palaeomagnetic dating and determinations of tectonic tilting: a study of Mesozoic–Cenozoic igneous rocks in central west Portugal	111
Central Mediterranean and Carpathians	
CHANNELL, J. E. T. Palaeomagnetism and palaeogeography of Adria	119
IORIO, M., NARDI, G., PIERATTINI, D. & TARLING, D. H. Palaeomagnetic evidence of block rotations in the Matese Mountains, Southern Apennines, Italy	133
MATTEI, M., KISSEL, C., SAGNOTTI, L., FUNICIELLO, R. & FACCENNA, C. Lack of Late Miocene to Present rotation in the Northern Tyrrhenian margin (Italy): a constraint on geodynamic evolution	141
FEDI, M., FLORIO, G. & RAPOLLA, A. The pattern of crustal block rotations in the Italian region deduced from aeromagnetic anomalies	147
MÁRTON, E. & MÁRTON, P. Large scale rotations in North Hungary during the Neogene as indicated by palaeomagnetic data	153
KRS, M., KRISOVÁ, M. & PRUNER, P. Palaeomagnetism and palaeogeography of the Western Carpathians from the Permian to the Neogene	175
HOUŠA, V., KRS, M., KRISOVÁ, M. & PRUNER, P. Magnetostratigraphy of Jurassic–Cretaceous limestones in the Western Carpathians	185
IORIO, M., TARLING, D. H., D'ARGENIO, B. & NARDI, G. Ultra-fine magnetostratigraphy of Cretaceous shallow water carbonates, Monte Raggeto, southern Italy	195

MCCLELLAND, E., FINEGAN, B. & BUTLER, R. W. H. A magnetostratigraphic study of the onset of the Mediterranean Messinian Salinity Crisis; Caltanissetta Basin, Sicily	205
FLORINDO, F. & SAGNOTTI, L. Revised magnetostratigraphy and rock magnetism of Pliocene sediments from Valle Ricca (Rome, Italy)	219
SCALERA, G., FAVALI, P. & FLORINDO, F. Palaeomagnetic database: the effect of quality filtering for geodynamic studies	225
Eastern Mediterranean	
ROBERTSON, A. H. F., DIXON, J. E., BROWN, S., COLLINS, A., MORRIS, A., PICKETT, E. A., SHARP, I. & USTAÖMER, T. Alternative tectonic models for the Late Palaeozoic–Early Tertiary development of Tethys in the Eastern Mediterranean region	239
MAURITSCH, H. J., SCHOLGER, R., BUSHATI, S. L. & XHOMO, A. Palaeomagnetic investigations in Northern Albania and their significance for the geodynamic evolution of the Adriatic–Aegean realm	265
KONDOPOULOU, D., ATZEMOGLU, A. & PAVLIDES, S. Palaeomagnetism as a tool for testing geodynamic models in the North Aegean: convergences, controversies and a further hypothesis	277
FEINBERG, H., EDEL, B., KONDOPOULOU, D. & MICHARD, A. Implications of ophiolite palaeomagnetism for the interpretation of the geodynamics of Northern Greece	289
PIPER, J. D. A., MOORE, J. M., TATAR, O., GURSOY, H. & PARK, R. G. Palaeomagnetic study of crustal deformation across an intracontinental transform: the North Anatolian Fault Zone in Northern Turkey	299
MORRIS, A. A review of palaeomagnetic research in the Troodos ophiolite, Cyprus	311
KAFAY, A. M., TARLING, D. H., EL GAMILI, M. M., HAMAMA, H. H. & IBRAHIM, E. H. Palaeomagnetism of some Cretaceous Nubian Sandstones, Northern Sinai, Egypt	325
ABDELDAYEM, A. L. & TARLING, D. H. Palaeomagnetism of some Tertiary sedimentary rocks, southwest Sinai, Egypt, in the tectonic framework of the SE Mediterranean	333
Applications in volcanology	
BARDOT, L., THOMAS, R. & MCCLELLAND, E. Emplacement temperatures of pyroclastic deposits on Santorini deduced from palaeomagnetic measurements: constraints on eruption mechanisms	345
DE' GENNARO, M., GIALANELLA, P. R., INCORONATO, A., MASTROLORENZO, G. & NAIMO, D. Palaeomagnetic controls on the emplacement of the Neapolitan Yellow Tuff (Campi Flegrei, Southern Italy)	359
INCORONATO, A. Magnetic stratigraphy procedures in volcanic areas: the experience at Vesuvius	367
Archaeomagnetism	
EVANS, M. E. Archaeomagnetic results from the Mediterranean region: an overview	373
MÁRTON, P. Archaeomagnetic directions: the Hungarian calibration curve	385
MORRIS, A. A glossary of basic palaeomagnetic and rock magnetic terms	401
Index	416