

Contents

Chapter 1 Introduction	1
Chapter 2 VENTURA, G. Kinematics of the Aeolian volcanism (Southern Tyrrhenian Sea) from geophysical and geological data	3
Chapter 3 ROMAGNOLI, C. Characteristics and morphological evolution of the Aeolian volcanoes from the study of submarine portions	13
Chapter 4 ROMAGNOLI, C., CASALBORE, D., BORTOLUZZI, G., BOSMAN, A., CHIOCCI, F. L., D'ORIANO, F., GAMBERI, F., LIGI, M. & MARANI, M. Bathy-morphological setting of the Aeolian Islands	27
Chapter 5 LUCCHI, F. Stratigraphic methodology for the geological mapping of volcanic areas: insights from the Aeolian archipelago (southern Italy)	37
Chapter 6 LUCCHI, F., KELLER, J. & TRANNE, C. A. Regional stratigraphic correlations across the Aeolian archipelago (southern Italy)	55
Chapter 7 LUCCHI, F., PECCERILLO, A., TRANNE, C. A., ROSSI, P. L., FREZZOTTI, M. L. & DONATI, C. Volcanism, calderas and magmas of the Alicudi composite volcano (western Aeolian archipelago)	83
Chapter 8 LUCCHI, F., SANTO, A. P., TRANNE, C. A., PECCERILLO, A. & KELLER, J. Volcanism, magmatism, volcano-tectonics and sea-level fluctuations in the geological history of Filicudi (western Aeolian archipelago)	113
Chapter 9 LUCCHI, F., GERTISSER, R., KELLER, J., FORNI, F., DE ASTIS, G. & TRANNE, C. A. Eruptive history and magmatic evolution of the island of Salina (central Aeolian archipelago)	155
Chapter 10 FORNI, F., LUCCHI, F., PECCERILLO, A., TRANNE, C. A., ROSSI, P. L. & FREZZOTTI, M. L. Stratigraphy and geological evolution of the Lipari volcanic complex (central Aeolian archipelago)	213
Chapter 11 DE ASTIS, G., LUCCHI, F., DELLINO, P., LA VOLPE, L., TRANNE, C. A., FREZZOTTI, M. L. & PECCERILLO, A. Geology, volcanic history and petrology of Vulcano (central Aeolian archipelago)	281
Chapter 12 LUCCHI, F., TRANNE, C. A., PECCERILLO, A., KELLER, J. & ROSSI, P. L. Geological history of the Panarea volcanic group (eastern Aeolian archipelago)	351
Chapter 13 FRANCALANCI, L., LUCCHI, F., KELLER, J., DE ASTIS, G. & TRANNE, C. A. Eruptive, volcano-tectonic and magmatic history of the Stromboli volcano (north-eastern Aeolian archipelago)	397
Chapter 14 ROSI, M., PISTOLESI, M., BERTAGNINI, A., LANDI, P., POMPILIO, M. & DI ROBERTO, A. Stromboli Volcano, Aeolian Islands (Italy): present eruptive activity and hazards	473
Chapter 15 PECCERILLO, A., DE ASTIS, G., FARAONE, D., FORNI, F. & FREZZOTTI, M. L. Compositional variations of magmas in the Aeolian arc: implications for petrogenesis and geodynamics	491
Index	511

Contents of the DVD

Online Readers can access these files from links within the relevant chapters.

Bathy-morphological map of the eastern Aeolian sector
 Bathy-morphological map of the central Aeolian sector
 Bathy-morphological map of the western Aeolian sector
 1:10 000 geological map of Alicudi
 Geochemical dataset for Alicudi
 1:10 000 geological map of Filicudi
 Geochemical dataset for Filicudi
 Xenolith data for Filicudi
 1:10 000 geological map of Salina
 Geochemical dataset for Salina
 1:10 000 geological map of Lipari
 Geochemical dataset for Lipari
 1:10 000 geological map of Vulcano
 Geochemical dataset for Vulcano
 1:10 000 geological map of Panarea
 Geochemical dataset for Panarea
 1:10 000 geological map of Stromboli
 Geochemical dataset for Stromboli