

## Contents

<b>Chapter 1</b> Introduction	1
<b>Chapter 2</b> VENTURA, G. Kinematics of the Aeolian volcanism (Southern Tyrrhenian Sea) from geophysical and geological data	3
<b>Chapter 3</b> ROMAGNOLI, C. Characteristics and morphological evolution of the Aeolian volcanoes from the study of submarine portions	13
<b>Chapter 4</b> 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
<b>Chapter 5</b> LUCCHI, F. Stratigraphic methodology for the geological mapping of volcanic areas: insights from the Aeolian archipelago (southern Italy)	37
<b>Chapter 6</b> LUCCHI, F., KELLER, J. & TRANNE, C. A. Regional stratigraphic correlations across the Aeolian archipelago (southern Italy)	55
<b>Chapter 7</b> 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
<b>Chapter 8</b> 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
<b>Chapter 9</b> 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
<b>Chapter 10</b> 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
<b>Chapter 11</b> 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
<b>Chapter 12</b> LUCCHI, F., TRANNE, C. A., PECCERILLO, A., KELLER, J. & ROSSI, P. L. Geological history of the Panarea volcanic group (eastern Aeolian archipelago)	351
<b>Chapter 13</b> 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
<b>Chapter 14</b> ROSI, M., PISTOLESI, M., BERTAGNINI, A., LANDI, P., POMPILO, M. & DI ROBERTO, A. Stromboli Volcano, Aeolian Islands (Italy): present eruptive activity and hazards	473
<b>Chapter 15</b> 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
<b>Index</b>	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