

Contents

List of Figures.....	ix
List of Tables.....	xv
Foreword.....	xvi
Investigating Ancient Tarquinia: from Knowledge to Protection, <i>Daniele F. Maras, Rossella Zaccagnini</i>	xvi
List of Abbreviations.....	xviii
Introduction.....	1
1. Geophysical Research of the University of Verona.....	5
1.1. Methodology and Data Processing, <i>Fiammetta Soriano</i>	5
1.2. Photogrammetric Survey and Graphic Processing, <i>Fiammetta Soriano</i>	5
1.3. Tarquinia – “Ara della Regina” Landscape: Multispectral Interpretation by Drones of the Duke University. Introduction, <i>Maurizio Forte</i>	9
1.3.1. “Ara della Regina”, <i>Maurizio Forte</i>	15
1.3.2. Multispectral Drones, <i>Maurizio Forte</i>	15
1.3.3. Normalized Difference Vegetation Index, <i>Maurizio Forte</i>	17
1.3.4. Mapping and Classification Results, <i>Maurizio Forte</i>	18
1.3.5. Conclusions, <i>Maurizio Forte</i>	19
1.3.6. Acknowledgements, <i>Maurizio Forte</i>	21
2. History and Town Planning of Tarquinia	23
2.1. The Expansion in the 7th-6th Centuries, <i>Attilio Mastrocinque</i>	23
2.2. Tarquinia, an extended City. A Comparison with Rome, <i>Attilio Mastrocinque</i>	23
2.3. Aruspices, <i>Attilio Mastrocinque</i>	25
2.4. The cardinal Points, <i>Attilio Mastrocinque</i>	27
3. Results of Geophysical Measurements. The Main Features of the City	31
3.1. The Previous Research, <i>Fiammetta Soriano</i>	31
3.1.1. Previous Research on the Road Network of Tarquinia, <i>Fiammetta Soriano</i>	31
3.1.2. The City Gates. The Previous Research, <i>Fiammetta Soriano</i>	37
3.2. The Results of the Geomagnetic Survey. The Main Roads, <i>Attilio Mastrocinque, Fiammetta Soriano</i>	39
3.2.1. The Road System and the Approaches to the City, <i>Fiammetta Soriano</i>	40
3.2.2. The Grid of Streets East of the “Ara della Regina”, <i>Attilio Mastrocinque</i>	50
3.2.3. The central <i>cardo</i> and the Divide between “Pian della Regina” and “Pian di Civita”, <i>Attilio Mastrocinque</i>	51
4. Results of Geophysical Measurements. The Arrangement of the Urban Spaces.....	53
Introduction, <i>Attilio Mastrocinque, Fiammetta Soriano</i>	53
4.1. Pian della Regina, <i>Fiammetta Soriano</i>	53
4.1.1. Zone 1 – Structures in the Eastern Part of Tarquinia, <i>Fiammetta Soriano</i>	55
4.1.1.1. “Piazza d’Armi”, <i>Attilio Mastrocinque</i>	56
4.1.1.2. A Satellite Settlement, <i>Attilio Mastrocinque</i>	57
4.1.1.3. Structures in the Eastern Heights, <i>Fiammetta Soriano</i>	57
4.1.2. Zone 2 – Structures in the Northeastern Part of Tarquinia, <i>Fiammetta Soriano</i>	58
4.1.2.1. Neighborhood 1 – The Walls of the “Parking foreland”, <i>Fiammetta Soriano</i>	58
Blocks I-VII, <i>Fiammetta Soriano</i>	59
4.1.2.2. Neighborhood 2 – The Walls of the “Soranus Foreland”, <i>Attilio Mastrocinque</i>	61
Blocks VIII-XI, <i>Fiammetta Soriano</i>	64
Block XII. The Area of the “ <i>domus del mitreo</i> ”, <i>Attilio Mastrocinque, Fiammetta Soriano</i>	65
Block XIII, <i>Fiammetta Soriano</i>	66
4.1.2.3. Neighborhood 3 – The Walls of the “Romanelli Foreland”, <i>Attilio Mastrocinque</i>	66
Blocks XIV-XIX, <i>Fiammetta Soriano</i>	66
Block XX, <i>Fiammetta Soriano</i>	67

4.1.3. Zone 3 – Structures in the Southeastern Part of Tarquinia, <i>Fiammetta Soriano</i>	68
4.1.3.1. Neighborhood 4, <i>Fiammetta Soriano</i>	68
Blocks XXI-XXIV, <i>Fiammetta Soriano</i>	69
4.1.3.2. Neighborhood 5, <i>Fiammetta Soriano</i>	70
Blocks XXV-XXX, <i>Fiammetta Soriano</i>	70
4.1.3.3. Neighborhood 6 – Building to the East of the “Ara della Regina”, <i>Fiammetta Soriano</i>	71
Blocks XXXI-XXXVII, <i>Fiammetta Soriano</i>	71
Blocks XXXIIIa. The <i>macellum</i> , <i>Fiammetta Soriano</i>	71
Block XXXVI. An architectural Complex East of the Northeastern Corner of the Forum, <i>Attilio Mastrocinque</i>	73
4.1.3.4. Neighborhood 7 – Buildings North of the “Ara della Regina”, <i>Attilio Mastrocinque, Fiammetta Soriano</i>	74
Blocks XXXVIII-L, <i>Fiammetta Soriano</i>	74
Block XLVIII. The so-called Acropolis of Tarquinia, <i>Attilio Mastrocinque</i>	76
Blocks LI-LIV, <i>Fiammetta Soriano</i>	77
Blocks LV-LVI, <i>Fiammetta Soriano</i>	78
4.1.3.5. Neighborhood 8 – The Area South of the “Ara della Regina”, <i>Fiammetta Soriano</i>	79
Block LVII. A Peristyle South of the “Ara della Regina”, <i>Attilio Mastrocinque</i>	79
Block LXI. The Square South of the “Ara della Regina.” The Forum of Tarquinia, <i>Attilio Mastrocinque</i>	81
Block LXII. The Building Southwest of the porticoed Square. The Basilica of the Forum, <i>Fiammetta Soriano</i>	84
The first Check of Hypotheses, <i>Attilio Mastrocinque, Fiammetta Soriano</i>	86
4.1.4. Zone 4 – The Area of the “Terme Tulliane”, <i>Fiammetta Soriano</i>	87
4.1.4.1. Neighborhoods 9-11, <i>Fiammetta Soriano</i>	88
Blocks LXXV-LXXXI, <i>Fiammetta Soriano</i>	89
Block LXXI. Buildings West of the “Ara della Regina”, <i>Attilio Mastrocinque</i>	90
Block LXXIII - The “Terme Tulliane”, <i>Fiammetta Soriano</i>	90
4.1.4.2. The Complex of the “Terme Tulliane”, <i>Angelica Gabrielli</i>	92
The Structure and the Mosaics of the “Terme Tulliane”, <i>Angelica Gabrielli</i>	93
Comparisons, <i>Angelica Gabrielli</i>	94
The Mosaics, <i>Angelica Gabrielli</i>	95
Marine Themes, <i>Angelica Gabrielli</i>	96
The Rhinoceros, <i>Angelica Gabrielli</i>	96
The Planimetry, <i>Angelica Gabrielli</i>	97
Conclusions, <i>Angelica Gabrielli</i>	97
4.1.4.3. Hadrian, Antoninus Pius, and Tarquinia, <i>Attilio Mastrocinque</i>	98
Blocks LXXVIII-LXXXI, <i>Fiammetta Soriano</i>	100
4.2. Pian di Civita, <i>Fiammetta Soriano</i>	101
4.2.1. Zone 5, <i>Fiammetta Soriano</i>	101
4.2.1.1. Neighborhood 13, <i>Fiammetta Soriano</i>	101
Block I, <i>Fiammetta Soriano</i>	103
Block II, <i>Fiammetta Soriano</i>	103
Blocks III-IV. The Area dug by the “Soprintendenza”, <i>Fiammetta Soriano</i>	105
Blocks V-VII, <i>Attilio Mastrocinque</i>	106
Block VIII. The <i>Horrea</i> (?), <i>Attilio Mastrocinque</i>	107
4.2.1.2. Neighborhood 14, <i>Fiammetta Soriano</i>	108
Block IX. The Area West of the “Macera”, <i>Fiammetta Soriano</i>	108
Block X-XIII, <i>Attilio Mastrocinque</i>	111
4.2.2. Zone 6, <i>Fiammetta Soriano</i>	112
4.2.2.1. Neighborhood 15, <i>Fiammetta Soriano</i>	113
Blocks XIV-XV, <i>Fiammetta Soriano</i>	113
Block XVI. The Area of the “Building A”, <i>Fiammetta Soriano</i>	113
Blocks XVII-XVIII, <i>Fiammetta Soriano</i>	115

4.2.2.2. Neighborhood 16, <i>Fiammetta Soriano</i>	115
Block XIX, <i>Fiammetta Soriano</i>	116
Block XX, <i>Fiammetta Soriano</i>	116
Block XXI. The Area of the “Building B”, <i>Fiammetta Soriano</i>	116
Blocks XXII-XXIII, <i>Fiammetta Soriano</i>	119
4.3. The Civitucola, <i>Attilio Mastrocinque</i>	120
5. Conclusions	121
5.1. Comparisons with Rome, <i>Attilio Mastrocinque</i>	121
5.2. Comparisons with Veii, <i>Attilio Mastrocinque</i>	121
5.3. What was expected and what the Surveys discovered, <i>Attilio Mastrocinque</i>	121
5.4. Excavations and Geophysics, <i>Attilio Mastrocinque</i>	121
5.5. Romanization, <i>Attilio Mastrocinque</i>	122
Bibliography	123