

Contents

| | |
|---|-------------|
| Acknowledgements | <i>xiii</i> |
| Preface | <i>xv</i> |
| INTRODUCTION | <i>xv</i> |
| LAYOUT AND USE OF THE VOLUMES | <i>xvii</i> |
| Chapter 1 Introduction | <i>1</i> |
| A NOTABLE NEOLITHIC | <i>1</i> |
| A DIFFERENT TYPE OF FIELD ENGAGEMENT | <i>2</i> |
| SENSORY SENSE-MAKING | <i>2</i> |
| METHODOLOGICAL REFLEXIVITY | <i>3</i> |
| IT'S NOT CRYSTAL-GAZING | <i>3</i> |
| CAN WE EVER LEAVE THE SENSORY PRESENT? | <i>4</i> |
| MAKING THE INVISIBLE VISIBLE | <i>5</i> |
| THE ORGANISATION OF THE VOLUMES | <i>5</i> |
| IN SUM | <i>6</i> |
| Chapter 2 Introduction to the Neolithic of Southeast Italy and the Ditched Villages of the Tavoliere | <i>7</i> |
| INTRODUCTION | <i>7</i> |
| ORIGINS OF THE NEOLITHIC OF THE TAVOLIERE | <i>7</i> |
| ARCHAEOLOGICAL RESEARCH ON THE NEOLITHIC OF THE TAVOLIERE | <i>8</i> |
| <i>Aerial photography</i> | <i>8</i> |
| <i>Fieldwork</i> | <i>8</i> |
| <i>The British contribution</i> | <i>8</i> |
| <i>Italian scholarship</i> | <i>9</i> |
| THE NATURE OF NEOLITHIC SETTLEMENT: THE <i>VILLAGGI TRINCERATI</i> | <i>10</i> |
| <i>Features of the sites</i> | <i>11</i> |
| <i>Settlement enclosure ditches</i> | <i>11</i> |
| <i>C-ditches</i> | <i>11</i> |
| <i>Annexe ditches</i> | <i>12</i> |
| <i>Houses</i> | <i>12</i> |
| <i>Other structures</i> | <i>14</i> |
| <i>Burials</i> | <i>15</i> |
| <i>Subsistence economy</i> | <i>15</i> |
| <i>Material culture</i> | <i>16</i> |
| <i>Pottery</i> | <i>16</i> |
| <i>Stone</i> | <i>18</i> |
| <i>Clay figurines</i> | <i>20</i> |
| <i>Chronology</i> | <i>20</i> |
| INTERPRETATION | <i>23</i> |

| | |
|---|----|
| <i>Classification of the sites</i> | 23 |
| <i>Function of the sites</i> | 23 |
| <i>Functions of the ditches</i> | 24 |
| <i>Population</i> | 24 |
| <i>Development of the sites and settlement pattern through time</i> | 25 |
| CONCLUSION | 26 |
| Chapter 2 Appendix: Tables | 27 |
| A2.1 Excavated Neolithic settlements in the Tavoliere and Ofanto Valley | 29 |
| A2.2 Burials on Neolithic settlements in the Tavoliere and Ofanto Valley | 33 |
| A2.3 Locations of burials on Neolithic settlements in the Tavoliere and Ofanto Valley | 35 |
| A2.4 Radiocarbon dates for the Neolithic of northern Apulia | 36 |
| Chapter 3 Tavoliere Landscapes Present and Past: | |
| Introduction to Sensory Concepts | 41 |
| BEGINNINGS | 41 |
| <i>The Neolithic change</i> | 41 |
| <i>The Birth of the Project</i> | 42 |
| PREHISTORY AND SENSORY LANDSCAPES | 45 |
| THE SENSORY GEOGRAPHY OF THE TAVOLIERE | 47 |
| <i>Skeletal topography: the bones of the landscape</i> | 47 |
| <i>Impact of tree cover on topographic observations and on inter-visibility of sites</i> | 52 |
| <i>Vegetation, crops and domestic animals</i> | 54 |
| <i>Climate</i> | 56 |
| -SCAPES AND THE QUOTIDIAN OF THE TAVOLIERE | 57 |
| SENSES AND EMBODIMENT | 58 |
| THE SENSES OF THE EVERYDAY | 59 |
| <i>As seen in the Neolithic – observable universes</i> | 59 |
| <i>Re-presenting vision</i> | 60 |
| <i>The qualities of vision: the importance of colour, reflection/shine, brilliance/sparkle and luminosity</i> | 61 |
| <i>Light/dark, illumination and lamination</i> | 62 |
| <i>Acoustic and auditory ‘-scapes’: hearing, listening and sounding the Neolithic</i> | 64 |
| <i>Smell the Neolithic</i> | 67 |
| <i>Taste the Neolithic</i> | 69 |
| <i>Touch the Neolithic</i> | 70 |
| QUESTIONS OF SENSORY COMPETENCE | 72 |
| GRADUATED SPACE AND THE SENSORY WORLDS OF THE | |
| <i>VILLAGGI TRINCERATI</i> | 73 |
| SUMMARY | 74 |
| Chapter 4 Methodology and Methods | 75 |
| INTRODUCTION | 75 |
| THE MASS SURVEY | 76 |
| <i>Introduction</i> | 76 |
| <i>The Mass Survey form</i> | 78 |
| <i>‘Hard’ archaeology</i> | 79 |
| <i>Topography</i> | 79 |
| <i>Perception</i> | 85 |

| | |
|--|-----|
| <i>Additional information used in analysis</i> | 85 |
| <i>Site size</i> | 85 |
| <i>Number and arrangement of ditches</i> | 86 |
| <i>Additional features</i> | 86 |
| <i>Analysis of the Mass Survey</i> | 86 |
| <i>Assessment of the Mass Survey</i> | 87 |
| PHENOMENOLOGICAL SITE CATCHMENT ANALYSIS (PCSA) | 89 |
| <i>Introduction</i> | 89 |
| <i>Method</i> | 89 |
| <i>Assessment of PSCA</i> | 94 |
| RECORDING AND MAPPING SENSORY EXPERIENCE | 95 |
| <i>Introduction</i> | 95 |
| <i>Scales of analysis</i> | 96 |
| <i>Seasons and the weather</i> | 97 |
| <i>Experiments and ‘base sites’</i> | 97 |
| <i>Vision and visibility</i> | 98 |
| <i>A circular view</i> | 98 |
| <i>Flags</i> | 99 |
| <i>Bodies, gesture and visual communication</i> | 101 |
| <i>Shape colour and reflection</i> | 103 |
| <i>Sound</i> | 106 |
| <i>Smell</i> | 109 |
| <i>Assessment of sensory experiments</i> | 112 |
| Chapter 4 Appendix: Tables | 113 |
| A4.1 Tavoliere social visibility distances | 115 |
| A4.2 Sound measurements generated by <i>in situ</i> sensory experiments | 119 |
| A4.3 Supplementary data, common sound parameters given in contemporary texts for environmental noise | 127 |
| A4.4 Tavoliere olfactory experiments | 128 |
| A4.5 Examples of task and cross-site communication walking distances for different size classes of <i>villaggi trincerati</i> and how they were ascertained <i>in situ</i> for sites that are structurally invisible on the ground | 129 |
| Chapter 5 Addressing the Why and How of Neolithic Settlement Location through a Hybrid of Quantitative/Qualitative Use of Geographic Information Systems (GIS) by Andrew Dufton | 131 |
| ENVIRONMENTAL CHARACTERISTICS OF THE TAVOLIERE PLAIN | 131 |
| MAPPING NEOLITHIC SETTLEMENTS | 133 |
| <i>Additional data collection</i> | 134 |
| BEYOND A STRICTLY QUANTITATIVE GIS TREATMENT | 134 |
| <i>Addressing chronological uncertainty</i> | 135 |
| A QUANTITATIVE GIS ANALYSIS OF SETTLEMENT PATTERNS | 136 |
| <i>Elevation</i> | 138 |
| <i>Slope</i> | 138 |
| <i>Aspect</i> | 140 |
| <i>Horizontal distance to water</i> | 141 |
| <i>Soil type</i> | 141 |

4 TABLE OF CONTENTS

| | |
|--|-----|
| <i>Landscape features</i> | 141 |
| <i>Clustering</i> | 142 |
| ANSWERING THE WHY OF SITE LOCATION | 143 |
| A QUALITATIVE APPROACH TO THE COLLECTIVE TASKSCAPE | 146 |
| EXPLORING A TOPOGRAPHY OF OVERLAPPING TASKSCAPES | 148 |
| CONCLUSIONS | 151 |
| Chapter 5 Appendix: Sites not Catalogued in Volume 2 | 153 |
| Chapter 6 The Aerial Photograph Archive and the Mass Survey | 161 |
| INTRODUCTION | 161 |
| <i>The Aerial Photograph Archive</i> | 161 |
| <i>The Mass Survey</i> | 161 |
| SITE NUMBERS AND DENSITY | 163 |
| <i>Total number of sites</i> | 163 |
| <i>Site density</i> | 163 |
| <i>Multiple phases of construction and occupation</i> | 166 |
| TOPOGRAPHIC LOCATION | 169 |
| <i>Position on landform</i> | 169 |
| <i>Accessibility of water</i> | 169 |
| SITE TYPOLOGY AND CLASSIFICATION | 171 |
| <i>Site size</i> | 172 |
| <i>Number and arrangement of ditches</i> | 174 |
| <i>Additional features</i> | 176 |
| <i>C-ditches</i> | 176 |
| <i>Annexes</i> | 178 |
| <i>Nuclei</i> | 178 |
| PERCEPTUAL ASPECTS | 178 |
| <i>Information from the Mass Survey</i> | 178 |
| <i>Perception of the landscape</i> | 178 |
| <i>Perception of neighbouring communities</i> | 181 |
| <i>Openness or enclosure</i> | 181 |
| DISCUSSION | 182 |
| Chapter 6 Appendix 1: Table | 185 |
| A6.1 Sites visited in the Mass Survey | 187 |
| Chapter 6 Appendix 2: The Obsidian Finds by Keri A. Brown & Robert H. Tykot | 191 |
| Chapter 6 Appendix 3: La Quercia Walking Transect | 199 |
| Chapter 7 Exploring Home Territories: | |
| Phenomenological Site Catchment Analysis and Sensory Approaches | 207 |
| MONTE AQUILONE (J207) | 207 |
| <i>Introduction</i> | 207 |
| <i>PSCA</i> | 209 |
| <i>Summary</i> | 209 |
| LA PANETTERIA 1 (J1) | 211 |
| <i>Introduction</i> | 211 |
| <i>PSCA</i> | 212 |
| <i>Summary</i> | 212 |

| | |
|--|-----|
| MASSERIA LA QUERCIA (J72) | 214 |
| <i>Introduction</i> | 214 |
| <i>PSCA</i> | 215 |
| <i>Summary</i> | 217 |
| MASSERIA BONGO (J71) | 217 |
| <i>Introduction</i> | 217 |
| <i>PSCA</i> | 218 |
| <i>Summary</i> | 219 |
| FORNOVECCHIO (A207) | 220 |
| <i>Introduction</i> | 220 |
| <i>PSCA</i> | 221 |
| <i>Summary</i> | 221 |
| RESULTS OF THE PSCA WORK | 222 |
| <i>The PSCA method</i> | 222 |
| <i>Neolithic site territories</i> | 223 |
| DISCUSSION | 224 |
| <i>Sensory studies</i> | 226 |
| <i>Theorising home territories</i> | 227 |
| Chapter 7 Appendix: PSCA Walks | 229 |
| Chapter 8 Sensual and Social Lives of the <i>Villaggi Trincerati</i> Communities: | |
| about the Village and about the House | 239 |
| CREATING THE BOUNDS OF A COMMUNITY | 239 |
| THE VILLAGE BOUNDARY | 242 |
| <i>The builders' experience</i> | 242 |
| <i>Architectural impediments</i> | 243 |
| <i>Architectural signification</i> | 244 |
| <i>Site, sound and smell at the main enclosure boundaries</i> | 246 |
| <i>Depositional environments of inclusion/exclusion and mingling</i> | 248 |
| <i>Crossing the village boundaries</i> | 249 |
| EXPERIENCING THE COMMUNITY INTERIOR | 249 |
| EXPERIENCING THE C-DITCHED ENCLOSURE – OUTSIDE THE HOUSE | 252 |
| ABOUT THE HOUSE | 259 |
| <i>Interior sensory space</i> | 260 |
| <i>Darkness, light and touch</i> | 260 |
| <i>Sounds of the house</i> | 262 |
| <i>Smells</i> | 263 |
| <i>Other haptic sensation</i> | 264 |
| SCALES AND SUMMATION | 264 |
| FRACTAL WORLDS: NESTED WORLDS | 268 |
| <i>An infinitely replicated fractal pattern</i> | 268 |
| <i>Marking things that belong together: inside/outside</i> | 268 |
| <i>Boundaries: permeability, transitions and interfaces</i> | 269 |
| <i>Containment</i> | 271 |
| <i>Cosmology and the 'nesting' of containers</i> | 272 |
| Chapter 8 Appendix: Tables | 275 |

6 TABLE OF CONTENTS

| | |
|--|-----|
| A8.1 Sensing the public spaces from within a <i>villaggio trincerato</i> | 278 |
| A8.2 Sensing inside a C-ditched enclosure | 280 |
| A8.3 Sensing inside the house | 282 |
| Chapter 9 Conclusion | 285 |
| INTRODUCTION | 285 |
| METHODOLOGICAL LIAISONS | 286 |
| NEOLITHIC COMMUNITIES OF THE TAVOLIERE: SOCIAL HIERARCHY OR EXPANSIVE EGALITARIANISM? | 287 |
| ADDITIONAL RESEARCH (Chapters 10 and 11) | 289 |
| FOLLOWING THE TAVOLIERE NEOLITHIC | 290 |
| FUTURE RESEARCH | 291 |
| Additional Research | 293 |
| Chapter 10 Fortuitous Interventions: Geomorphological and Artefactual Investigations on Neolithic Features Exposed at Two Gravel Quarries by Mike Seager Thomas | 295 |
| METHODOLOGY | 295 |
| CAVA PETRILLI (J4) | 296 |
| <i>The geology of the site</i> | 301 |
| <i>Site features</i> | 301 |
| <i>The main enclosure ditch</i> | 301 |
| <i>The small sub-circular enclosure or nucleus</i> | 306 |
| <i>The outer enclosure ditch</i> | 307 |
| <i>Other features</i> | 308 |
| CANALE GAVITELLA (J96) | 309 |
| <i>The geology of the site</i> | 311 |
| <i>Site features</i> | 313 |
| DISCUSSION AND CONCLUSION | 315 |
| <i>Summary</i> | 315 |
| <i>Understanding sites</i> | 316 |
| <i>Boundaries</i> | 316 |
| <i>Artefact and ecofact distribution</i> | 316 |
| <i>Chronology</i> | 317 |
| <i>The implications of conventional archaeology for our understanding of the social and sensory landscapes of the Apulian Neolithic</i> | 317 |
| <i>Future work</i> | 318 |
| Chapter 10 Appendix 1: Soil Micromorphology at Cava Petrilli by Richard Macphail | 321 |
| Chapter 10 Appendix 2: Optically Stimulated Luminescence (OSL) at Cava Petrilli by David Sanderson | 333 |
| Chapter 10 Appendix 3: Radiocarbon Dates from Cava Petrilli by Ruth Whitehouse | 343 |
| Chapter 10 Appendix 4: Pottery from Cava Petrilli by Sue Hamilton & Ruth Whitehouse | 347 |
| Chapter 10 Appendix 5: Scientific Examination of Potsherds by Michela Spataro | 355 |

| | | |
|---------------------|---|-----|
| Chapter 10 | Appendix 6: Animal Bones from Cava Petrilli | |
| | by Louise Martin | 367 |
| Chapter 10 | Appendix 7: Terrestrial Molluscs from Cava Petrilli | |
| | by Ken Thomas | 371 |
| Chapter 10 | Appendix 8: Wear and Tear to the Archaeological Landscape | |
| | by Mike Seager Thomas | 375 |
| Chapter 11 | Sensory Worlds of Grotta Scaloria | 383 |
| | INTRODUCTION | 383 |
| | PHENOMENOLOGY AND SENSORY ARCHAEOLOGY OF CAVES | 385 |
| | <i>Present day environment of Grotta Scaloria</i> | 385 |
| | <i>The ancient entrance to Grotta Scaloria</i> | 388 |
| | THE ANCIENT LANDSCAPE SETTING OF GROTTA SCALORIA | 391 |
| | <i>Zonation of sensory experience</i> | 391 |
| | <i>Journeying from the Tavoliere</i> | 395 |
| | <i>An open journey across the Pedegargano</i> | 396 |
| | <i>A sylvan journey</i> | 397 |
| | <i>Journey as pilgrimage: liminality and heightened senses of arrival</i> | 398 |
| | DISCUSSION | 398 |
| | CONCLUSION | 401 |
| Bibliography | | 403 |