Trypillia Mega-Sites and European Prehistory
4100-3400 BCE

Edited by Johannes Müller, Knut Rassmann and Mykhailo Videiko
Themes in Contemporary Archaeology

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## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>List of Contributors</td>
<td>vii</td>
</tr>
<tr>
<td>List of Figures and Tables</td>
<td>ix</td>
</tr>
<tr>
<td>Preface</td>
<td>xvii</td>
</tr>
<tr>
<td>Introduction</td>
<td>1</td>
</tr>
<tr>
<td>Johannes Müller and Knut Rassmann</td>
<td></td>
</tr>
<tr>
<td>Framing the Mega-Sites</td>
<td></td>
</tr>
<tr>
<td><strong>CHAPTER 1</strong> Demography and Social Agglomeration: Trypillia in a European Perspective</td>
<td>7</td>
</tr>
<tr>
<td>Johannes Müller</td>
<td></td>
</tr>
<tr>
<td><strong>CHAPTER 2</strong> Research on Different Scales: 120 Years Trypillian Large Sites Research</td>
<td>17</td>
</tr>
<tr>
<td>MykhaiLO Videoiko and Knut Rassmann</td>
<td></td>
</tr>
<tr>
<td>Mega-Sites</td>
<td></td>
</tr>
<tr>
<td><strong>CHAPTER 3</strong> The New Challenge for Site Plans and Geophysics: Revealing the Settlement Structure of Giant Settlements by Means of Geomagnetic Survey</td>
<td>29</td>
</tr>
<tr>
<td>Knut Rassmann, Aleksey Korvin-Piotrovskiy, Mykhailo Videoiko and Johannes Müller</td>
<td></td>
</tr>
<tr>
<td><strong>CHAPTER 4</strong> Copper Age Settlements in Moldova: Insights into a Complex Phenomenon from Recent Geomagnetic Surveys</td>
<td>55</td>
</tr>
<tr>
<td>Knut Rassmann, Patrick Mertl, Hans-Ulrich Voss, Veaceslav Bicbaiev and Alexandru Popa and Sergiu Musteata</td>
<td></td>
</tr>
<tr>
<td><strong>CHAPTER 5</strong> Maidanetske: New Facts of a Mega-Site</td>
<td>71</td>
</tr>
<tr>
<td>Johannes Müller and MykhaiLO Videoiko</td>
<td></td>
</tr>
<tr>
<td><strong>CHAPTER 6</strong> Nebelivka: From Magnetic Prospection to New Features of Mega-Sites</td>
<td>95</td>
</tr>
<tr>
<td>Nataliia Burdo and MykhaiLO Videoiko</td>
<td></td>
</tr>
<tr>
<td><strong>CHAPTER 7</strong> Nebelivka: Assembly Houses, Ditches, and Social Structure</td>
<td>117</td>
</tr>
<tr>
<td>John Chapman, Bisserka Gaydarska and Duncan Hale</td>
<td></td>
</tr>
<tr>
<td><strong>CHAPTER 8</strong> Chronology and Demography: How Many People Lived in a Mega-Site?</td>
<td>133</td>
</tr>
<tr>
<td>Johannes Müller, Robert Hofmann, Lennart Brandstatter, René Ohlrau and MykhaiLO Videoiko</td>
<td></td>
</tr>
<tr>
<td>Economies, Social Structure and Ideologies</td>
<td></td>
</tr>
<tr>
<td><strong>CHAPTER 9</strong> The Natural Background: Forest, Forest Steppe or Steppe Environment</td>
<td>171</td>
</tr>
<tr>
<td>Wiebke Kirleis and Stefan Dreibrodt</td>
<td></td>
</tr>
<tr>
<td><strong>CHAPTER 10</strong> Demography Reloaded</td>
<td>181</td>
</tr>
<tr>
<td>Aleksandr Diachenko</td>
<td></td>
</tr>
<tr>
<td><strong>CHAPTER 11</strong> Trypillian Subsistence Economy: Animal and Plant Exploitation</td>
<td>195</td>
</tr>
<tr>
<td>Wiebke Kirleis and Marta Dal Corso</td>
<td></td>
</tr>
<tr>
<td><strong>CHAPTER 12</strong> Living on the Edge? Carrying Capacities of Trypillian Settlements in the Buh-Dnipro Interfluve</td>
<td>207</td>
</tr>
<tr>
<td>René Ohlrau, Marta Dal Corso, Wiebke Kirleis and Johannes Müller</td>
<td></td>
</tr>
<tr>
<td><strong>CHAPTER 13</strong> Pottery Kilns in Trypillian Settlements. Tracing the Division of Labour and the Social Organization of Copper Age Communities</td>
<td>221</td>
</tr>
<tr>
<td>Aleksey Korvin-Piotrovskiy, Robert Hofmann, Knut Rassmann, MykhaiLO Yu Videoiko and Lennart Brandstatter</td>
<td></td>
</tr>
<tr>
<td><strong>CHAPTER 14</strong> From Domestic Households to Mega-Structures: Proto-Urbanism?</td>
<td>253</td>
</tr>
<tr>
<td>Johannes Müller, Robert Hofmann and René Ohlrau</td>
<td></td>
</tr>
</tbody>
</table>
Crisis, Collapse, Transformation?

CHAPTER 15 Small is Beautiful: A Democratic Perspective?
Aleksandr Diachenko

CHAPTER 16 Trypillia and Uruk
Johannes Müller and Susan Pollock

Mega-Sites and Mega-Cities: From Past to Present

CHAPTER 17 Low-density Agrarian Cities: A Principle of the Past and the Present
John Chapman and Biserka Gaydarska

CHAPTER 18 Human Structure Social Space: What We Can Learn From Trypillia
Johannes Müller

Index of Places
René Ohlrau

Index of Subjects
René Ohlrau
CHAPTER 8

Chronology and Demography: How Many People Lived in a Mega-Site?

JOHANNES MÜLLER, ROBERT HOFMANN, LENNART BRANDTSTÄTTER, RENÉ OHLRAU AND MYKHAILO VIDEIKO

INTRODUCTION

Since the discovery of the huge dimensions of Trypillia BII/CI mega-sites, estimations about their population size have mainly resulted magnitudes which are as extraordinary for European prehistory as the dimensions of the sites themselves. A variety of population calculations is known, usually (e.g. for Taljanky and Maidanetske) focusing on around 7500–25,000 inhabitants per site (Shmaglj, 1982; Shmaglj & Videiko, 1987; Kruts, 1989; Ohlrau, 2015). A basic assumption for these population estimations is the contemporaneity of the majority of houses in each mega-site, which might be problematic.

Also, for the reconstruction of the overall population density in the Southern Buh and Dnipro Interfluve, the question of the contemporaneity, or alternatively a sequential appearance, of mega-sites is very important. In many views, the mega-sites Nebelivka–Dobrovody–Taljanky–Maidanetske are described as a chronological sequence of about 15,000 people, moving after about fifty years from one site to the next, at a distance of about 20 km (Kruts, 1989). In other views, a contemporary existence of some of the mega-sites is supposed (Müller et al., in print). In such an argumentation, no less than about 30,000 people were projected as living contemporarily in mega-sites of the Volodymyrivsko–Tomashivska group.

In consequence, for Trypillia mega-sites, the question of the contemporaneity of the detected houses is still most important for further analyses and interpretations: are we really dealing with up to c. 1500–2500 contemporary house-units at one site? If this is the case, we would be dealing with probably more than c. 15,000 inhabitants per site; that makes them comparable on a demographic scale with early Mesopotamian cities. Furthermore, it is important to develop not only estimations, but also archaeological arguments for whether neighbouring mega-sites also existed contemporarily or if the aforementioned model of a population shift from one mega-site to the next is valid (cf. Diachenko & Menotti, 2012). Both aspects, the demographic dimension of one site and the population density within the region, are important for further aspects of economic, political, and social organization and, not least, questions of the environmental developments, in particular the carrying capacity of the landscape.

Thus, the main goals of this inquiry are twofold—regarding precise chronology and demography: How many houses existed contemporarily in a mega-site? How many mega-sites existed contemporarily? As a result, we might be able to answer the question: How many people lived in a mega-site? How many people lived in the Uman core area of the mega-sites?

Of basic importance for our approach is the interpretation of new 14C-dates from Maidanetske; the first time that scientific dating has provided information about the chronology of mega-site house rings. Furthermore, consideration of typo-chronologies, as fundamental for the question of which sites existed contemporarily, might enable the formulation of probability models of population densities.

METHODS

Until recently, the arguments for different views of Trypillia demography were manifold, but still restricted because of the lack of reliable scientific dating. In principle, different interpretations of the same archaeological arguments are still possible:

1. The classical layout of a mega-site – a ground plan with concentric house rings around an empty central place and the very few stratigraphic overlaps of features – were used as an argument for the contemporaneity of the houses. Nevertheless, a succession of concentric house rings, for example, from an earlier inner ring to a later outer ring, would also result in such sophisticated settlement plans, but reduce the calculated number of inhabitants, for example, in Maidanetske with its nine house rings, by nearly eighty per cent.
2. The regular burning of houses with the regular rectangular outline of the ploschchadki formed an argument for a consciously intended destruction of a whole settlement at the end of its duration. While this would imply the contemporaneity of most of the detected houses in mega-sites, alternative interpretations are also possible: for example, the burning of houses in one house ring after the other that would imply only a contemporaneity of the houses of one house ring (Zbenovich, 1990).

3. The intense studies of Trypillia ceramic shapes and ornamentation, especially BII/C ceramic ornamentation, proved statistically relevant typological clusters of features that have similar decoration and shapes (Ryzhov, 1999). These studies confirmed the typological division of Trypillia into the known main phases in their regional settings (cf. Diachenko & Menotti, 2015). Additionally, a typological differentiation of the Volodymyrivsko-Tomashivska and Kosenivska local group into several typological subgroups was undertaken. These typological sequences were interpreted as chronological sequences. Since with exceptions (Ryzhov, 1990; Shmaglij & Videiko, 1990) only one sub-phase was detected at each mega-site, the typological development was used as an argument for the contemporaneity of the features of each mega-site. Furthermore, the sequential sub-phases with each sub-phase of, for example CI, was used as an argument for the sequential appearance of mega-sites one after the other (cf. Kruts et al., 2001; Diachenko, 2012). On the contrary, the lack of $^{14}$C-dates and vertical stratigraphy made it clear that the different typological groups do not necessarily have to represent chronological phases. Different design systems also could reflect, for example, different contemporary social groups that express their differences and similarities in the medium of ceramic ornamentation among other things.

4. The methodological haziness of $^{14}$C-dating in respect to the identification of short sequences, such as a two- to three-generation biography of mega-sites (e. fifty years by Kruts et al., 2001; c. seventy to eighty years by Diachenko, 2012: figure 5.5), was used to underestimate the overlap of $^{14}$C-dates from different sites (cf. Diachenko & Menotti, 2015). The reverse of this argument was taken by other scholars to describe the contemporaneity of mega-sites.

In consequence, a research strategy was developed, which included the following steps of analysis and interpretation:

1. In Maidanetske, the excavation strategy involved test-pits for each house ring, to gain radiometric dating samples (cf. Müller & Videiko, 2016). Context analyses of the samples and the evaluation of the sample material were involved in the interpretation of the data. The Bayesian approach was applied where possible.

2. The results were used to reconstruct a model of the contemporaneity of houses in Maidanetske. Using archaeological and ethnographic arguments in the reconstruction of the number of house inhabitants, a model of the demographic dimension of Maidanetske was developed.

3. Existing typological analyses of BII/CI ceramic inventories were used for correspondence analyses (CA) to estimate the statistical trajectories of stylistic differences. Through association with the already known and new $^{14}$C-data, the CA-results were translated into a chronological pattern.

4. In doing so, a model on population dynamics within the Uman region was developed.

**DATING A MEGA-SITE**

In Maidanetske, during the 2013 campaign, both the trenches on house 44 and on two pits, as well additional small test trenches, which focus on geomagnetic features of houses in the concentric house rings 1–9, helped in dating the concentric house rings (Figure 1). These test trenches were carried out in eight cases, so that—together with the house and pit in trench 51/52—all nine house rings of the southwestern part of Maidanetske would yield information. Owing to the scarcity of datable material (due to the small amount of charcoal and bones in the house layers that are very near to the recent surface), only seven of the nine rings produced samples that could be used for radiometric dating. The Poznań laboratory succeeded in dating thirty-five samples (List 1; cp. also List 2). In spite of this, the spatial distribution of the dated houses allows judgement about the probability that the features were contemporary.

The context analyses of the samples mainly involved analyses of the stratigraphic location of the samples. An example of such a stratigraphy could be seen in house 44 (Müller et al., 2014; Müller & Videiko, 2016).

The ploschchadka of house 44 was covered by a top layer of black soil with a very high concentration of humus, followed by a more greyish-brown sediment with less humus (Figure 2). Below these layers follows the daub package from the burnt house with a thickness of about 0.2–0.3 m. In the southwestern part of the house especially, a differentiation of the daub package into two layers was possible: a c. 10 cm thick top layer with small pieces of daub (nearly no organic intrusions), and a surface with smoothed horizontal
daub pieces beneath the floor. The burnt floor layer consists of daub from a mineral-tempered pavement, with negative imprints of timber stakes at its bottom. The ground floor itself lies on top of a loess soil with a conserved FA1 horizon. The upper edge of the loess soil beneath the floor level is characterized by different artefacts (pots, querns) that were placed there. In the areas outside of the ground floor layer the loess soil grew, probably as a result of domestic activities. This greyish loess sediment was partly covered by the top daub layer. Beneath the conserved loess soil and the anthropogenically influenced loess soil, the sediment of an fEw-horizon is visible that was hardly influenced by bioturbation. In all other trenches, the house stratigraphies were, in principle, similar to the one described for house 44.

The overall pattern of the settlement layout is the concentric arrangement of nine house rings, for each of which samples for dating were desired; this was possible for all except rings 3 and 5.

**Ring 1 (house 44)**

Besides one 14C-date from a disturbance on top of the daub layer that represents a *terminus ante quem* (c. 750–450 cal BC), two 14C-dates are relevant for dating the house. Poz-60162 (4965 ± 35 bp, bone, *Sus*, 3782–3702 cal BC) belongs to the daub layer, Poz-60161 (5015 ± 35 bp, bone, *Sus*, 3929–3715 cal BC) to the ground floor that indicates the usage of the house (List 1). The combination of the radiometric results, and of the vertical stratigraphy between both layers (Figure 2), makes usage of the house around c. 3700 BCE plausible, as also indicated by the sequential calibration of the two dates (Figure 3).

Four 14C-dates belong to the lower part of the pit 52 that is associated with house 44 (List 1; cp. Müller & Videiko, 2016). Two of them represent *termini post quem* (possible old wood effect–60190 and 60347 *Quercus*), the two others *termini ad quem* (Poz-60292 4920 ± 40 bp (bos) from spit 1e (3713–3651 cal BC), and Poz-60296 4955 ± 35 bp from spit 1f (bone of a large mammal): 3775–3695 cal BC). Thus, the depositional processes probably took place in the 38th century BCE (Figure 3). Accordingly, there is a high probability that pit 52 existed contemporarily with house 44.

**Ring 2 (house 46)**

A similar stratigraphy was observed in trench 72, where the test-trench revealed the remains of the geomagnetic feature house 46 (c. 12 × 5 m). The 14C-date Poz-60298 (4290 ± 40 bp, medium mammal, 2928–2879 cal BC) came from a layer on top of the house and represents a *terminus ante quem* (List 2).
### List 1. Maidanetske $^{14}$C-dates.

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<th>Sample name</th>
<th>Laboratory-ID</th>
<th>$^{14}$C age</th>
<th>Deviation</th>
<th>N (%)</th>
<th>C (%)</th>
<th>col (%)</th>
<th>find-ID</th>
<th>feature</th>
<th>level</th>
<th>find x</th>
<th>find y</th>
<th>trench</th>
<th>Material</th>
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|         |        |        |           |         |         |                       |        |         | A3     | fireplace 8   |
| Hd-15278 | 5349   | 40     | Bone      | nd      | Romania | Malnas-Bai            | 2      | Cucuteni | C A2/   | SI, Sector C,
|         |        |        |           |         |         |                       |        |         | A3     | level 1       |
| Gd-4690 | 4950   | 100    | Charcoal  | nd      | Romania | Malnas-Bai            | 2      | Cucuteni | C A2/   | Sector B, under
|         |        |        |           |         |         |                       |        |         | A3     | the platform of
|         |        |        |           |         |         |                       |        |         |        | H2, Level 1    |
| Bln-2803 | 5880   | 150    | Grain     | Wheat   | Romania | Poduri-Dealul Ghindaru | 1     | Precucuteni | PC 3   | nd |
| Bln-2804 | 5820   | 50     | Charcoal  | nd      | Romania | Poduri-Dealul Ghindaru | 1     | Precucuteni | PC 2   | nd |
| Bln-2782 | 5780   | 50     | charcoal  | nd      | Romania | Poduri-Dealul Ghindaru | 1     | Precucuteni | PC 3   | nd |
| Bln-2783 | 5690   | 50     | charcoal  | nd      | Romania | Poduri-Dealul Ghindaru | 2     | Cucuteni  | C A1   | nd |
| Bln-2784 | 5680   | 60     | Charcoal  | nd      | Romania | Poduri-Dealul Ghindaru | 2     | Cucuteni  | C A1   | nd |
| Hd-15401 | 5575   | 35     | Charcoal  | nd      | Romania | Poduri-Dealul Ghindaru | 2     | Cucuteni  | C A2   | 1A, H66, -1.85 m |
| Hd-15324 | 5529   | 29     | Charcoal  | nd      | Romania | Poduri-Dealul Ghindaru | 2     | Cucuteni  | C A2   | 1B, H66, -1.85 m |
| Bln-2824 | 5500   | 60     | Charcoal  | nd      | Romania | Poduri-Dealul Ghindaru | 2     | Cucuteni  | C A2   | H2B |
| Lv-2153  | 5470   | 90     | Bone      | Human   | Romania | Poduri-Dealul Ghindaru | 2     | Cucuteni  | C A2   | human skull, |
|         |        |        |           |         |         |                       |        |         |       | P1, -1.55 m   |
| Bln-2802 | 5420   | 150    | Charcoal  | nd      | Romania | Poduri-Dealul Ghindaru | 2     | Cucuteni  | C A2   | H2A |
| Bln-2805 | 5400   | 70     | Charcoal  | nd      | Romania | Poduri-Dealul Ghindaru | 2     | Cucuteni  | C A2   | H2B |
| Hd-15039 | 5385   | 37     | Grain     | Wheat   | Romania | Poduri-Dealul Ghindaru | 2     | Cucuteni  | C A2   | nd |
| Bln-2766 | 5350   | 80     | Grain     | Wheat   | Romania | Poduri-Dealul Ghindaru | 2     | Cucuteni  | C A2   | H15 |
| Ki-11462 | 4540   | 90     | nd        | nd      | Ukraine  | Usatovo               | 5      | C-T      | T C2   | room 5 (?)   |
| Ki-11459 | 4520   | 90     | nd        | nd      | Ukraine  | Usatovo               | 5      | C-T      | T C2   | room 2 (?)   |
| Ki-11460 | 4410   | 90     | nd        | nd      | Ukraine  | Usatovo               | 5      | C-T      | T C2   | room 3 (?)   |
| Ki-11461 | 4350   | 100    | nd        | nd      | Ukraine  | Usatovo               | 5      | C-T      | T C2   | room 4 (?)   |
| UCLA-1642A | 4330 | 60     | nd        | nd      | Ukraine  | Usatovo               | 5      | C-T      | T C2   | nd |
| Ki-11458 | 4270   | 100    | nd        | nd      | Ukraine  | Usatovo               | 5      | C-T      | T C2   | Room 2 (?)   |
| Bln-795  | 5345   | 100    | Grain     | Wheat   | Romania | Leca-Ungureni         | 2      | C-T      | C A3   | nd |
| Bln-1751 | 5635   | 50     | Charcoal  | nd      | Romania | Margineni-Cetatuia     | 2      | C-T      | C A2   | nd |
| Bln-1536 | 5625   | 50     | Charcoal  | nd      | Romania | Margineni-Cetatuia     | 2      | C-T      | C A2   | nd |
| Bln-1534 | 5610   | 55     | Grain     | Wheat   | Romania | Margineni-Cetatuia     | 2      | C-T      | C A2   | nd |
| Bln-1535 | 5485   | 60     | Grain     | Wheat   | Romania | Margineni-Cetatuia     | 2      | C-T      | C A2   | nd |
| Ki-369   | 5580   | 50     | Bone      | nd      | Romania | Caimara               | 2      | C-T      | T B1   | nd |
| Ki-870   | 4670   | 100    | Charcoal  | nd      | Ukraine  | Mayaki                | 5      | Tripolye  | T C2   | nd |
| Ki-9751  | 4600   | 90     | nd        | nd      | Ukraine  | Mayaki                | 5      | Tripolye  | T C2   | nd |
| Ki-282   | 4580   | 120    | nd        | nd      | Ukraine  | Mayaki                | 5      | Tripolye  | T C2   | nd |
| Ki-11464 | 4530   | 90     | nd        | nd      | Ukraine  | Mayaki                | 5      | Tripolye  | T C2   | nd |

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Figure 2. The short profile of house 44. The layers are described in the text, the location of the $^{14}$C-samples that date termini ad quem are marked (graphics: R. Hofmann, UFG Kiel).

Figure 3. Modelling of $^{14}$C-dates from Maidanetske. The sequential calibration of 6 groups of dates, which are related to different houses and pits, indicates the most probable chronological timeframe for the features. While for house 44, pit 50, and pit 60 the stratigraphic order of the samples could be integrated in the calculation, in all other cases phases were indicated by $^{14}$C-dates of non-stratigraphic order. The median of each boundary calculation was used to display the most probable range for the dates in relation to their spatial order (cf. Müller et al., 2014; Bronk Ramsey, 2009; Reimer et al., 2013); Graphic: Karin Winter, UFG Kiel.
Ring 4 (houses 47 and 48; pit 50)

In trench 73, a very similar stratigraphy provided information about the depositional processes of not only one, but also two houses, which are visible as the geomagnetic features 47 (15 m x 5 m) and 48 (15 m x 5 m). The small test-trench included the mere 0.5 m free space in between the two houses (Müller et al., in print). From the layer of domestic use between the houses, two samples represent termini ad quem of house use (of both houses?), which dates to the 37th century BCE, probably to the first half of this century: Poz-60351 with a longer span (4710 ± 35 bp (Ovis/Capra) 3672–3378 cal BC) and Poz-60199 with a shorter span (4895 ± 35 bp (medium mammal) 3697–3649 cal BC) (Figure 3).

Pit 50 of trench 50 is associated with house 12, which also belongs to ring 4. From seven samples, in three cases, the sample material is from long-lived species (Quercus or Fraxinus). They should be handled as termini post quem. Of the remaining samples, Poz-60189 (5065 ± 35 bp, bone, Bos, 3944–3801 cal BC) is relevant for the deepest infilling, Poz-60159 (5020 ± 30 bp, bone, Bos, 3933–3766 cal BC) for a following infilling, Poz-60158 (5020 ± 35 bp, bone, Ovis, 3936–3725 cal BC) for a middle fill, and Poz-60157 (4810 ± 35 bp, Bos, 3645–3534 cal BC) for the youngest infilling of the pit. While the first three samples mentioned are clearly termini ad quem, the last also could be a terminus ante quem for latest infillings. In principle, there is a high probability that the first infilling took place in the 39th century BCE, the second in the 38th century BCE, and the third in the 37th century BCE (Figure 3).

An older date that was gained from excavation unit Zh (1973 excavation) probably also belongs to ring 4. This feature, house 26, lies in the southwest of the settlement. No context is known for the date Bln-2087 (4890 ± 60 bp; charcoal, 3761–3636 cal BP), but the date within the 37th and 36th centuries BCE fits with the general pattern of the radiometric dates (List 2).
Ring 5 (pit 60)

The pit was filled with an immense mass of daub and belonged probably to ring 5, or perhaps to ring 6 (cf. Müller & Videiko, 2016; Müller et al., in print). The five radiometric dates are distributed across each phase of the pit. While two dates represent *terminus post quem* because of the longevity of their sample material (*quercus, fraxinus*), three could be termed as *terminus ad quem*: Poz-60350 (5065 ± 35 bp, bone, Bos, 3944–3801 BC) for the oldest phase, Poz-60349 (4980 ± 35 bp, bone, Bos, 3790–3707 BC) for the middle phase, and Poz-60348 (5020 ± 35 bp, bone, large mammal, 3936–3715 cal BC) for the youngest phase. If we take into consideration the life span of the samples, the oldest phase 1 dates to the end of the 39th century BCE, the second phase to the turn of the 39th/38th centuries BCE, and the last phase to the 38th century BCE (Figure 3).

Ring 6 (house 50)

The burnt remains of house 50 (geomagnetic feature 13 m × 4 m) and the associated layers on the eastern side of the house were excavated in the 1 × 2 m test-pit. From the greyish layer on top of the daub beside the house, a sample represents a *terminus ante quem*. Nevertheless, the date from the second half of the 37th century/the first half of the 36th century BCE (Poz-60352: 4820 ± 30 bp, bone, Bos, 3650–3536 BC) is in line with other dates from the site.

Ring 8 (house 52)

In trench 77 (ring 8), parts of house 52 and the northern area beside house 52 could be included in a test trench (Figure 1). Within the stratigraphy, a sample from the daub layer represents a *terminus ad quem* for the use of the house that obviously dates to the 38th century BCE: Poz-60194, 4970 ± 35 bp, bone, Ovis/ Capra, 3783–3705 cal BC.

Ring 9 (house 53)

In trench 79, house 53 with strongly burnt walls was identified in the test trench (Figure 1). Both layers, directly on top of the feature and the greyish layer that could be associated with the use-period of the house, yielded samples for radiometric dating. While the samples, Poz-60200 (4875 ± 35 bp, bone, Ovis/Capra, 3695–3640 BC) and Poz-60201 (4450 ± 30 bp, bone, medium mammal, 3320–3025 BC), represent *termini ante quem* in the 37th century BCE, Poz-60195 (4940 ± 35 bp, bone, Sus) represents a *terminus ad quem* (associated with the daub layer): 3761–3661 cal BCE. Linked with its stratigraphic position beneath the t.a.q.-samples, a date in the second half of the 38th century is most probable for house 53.

In conclusion, the series of thirty-five radiocarbon dates from Maidanetske, and the critical evaluation of their context, provides information about the chronological relevance of different features. For the first time, it was possible to gain dates from nearly all of the different rings of a Trypillia settlement as well as from pits. The context analyses of the radiometric dates showed that only fourteen dates are *termini ad quem*, which are associated with the use of the houses or the pits. The time interval of these fourteen dates could be reduced by using other *termini ante* and *post quem*, which were in a stratigraphic relation with *termini ad quem*. Of the fourteen dates from use-periods, seven are from houses and seven from pits. In general, the results are twofold:

1. The radiocarbon dates display statistically identical dates for all houses that were dated. As they are associated with burnt houses (no unburnt house was sampled), the dates support the model of a contemporary existence of these houses and their probably deliberate destruction around 3785/3590 BCE (Figure 3).

Furthermore, the dated pits also result in a similar timespan (c. 3915/3615 BCE). In consequence, burnt material from the houses and the upper fill of the pits represent the latest settlement event; the time at which (most of) the site burnt down. The vicinity and the full burning of whole houses, resulting in nearly rectangular remains of daub, was obviously a deliberate act. In consequence, the 2297 burnt houses which are known from the geophysical survey (cf. Rassmann et al., 2016; Müller & Videiko, 2016) date to the aforementioned timespan. Perhaps, we also could add the 671 partly eroded or unburnt houses, or maybe they belonged to a different stage in the development of the settlement (Ohlrau, 2015).

1. In contrast to most of the houses, whose remains represent the latest stage of the development, pits contain different stages of infilling that represent longer histories of the place. Evidence from pits 50 and 60 confirms that the earliest activities already took place c. 3940/3790 BCE. As pits are associated with single houses, this seems to confirm a dismantling of house structures from time to time so that primarily only the latest built structure remained in the Neighbourhood of the pits (cf. contribution Müller & Videiko, 2016).

The latest stage of infilling in both pits is dated to the 38th to 37th century BCE. In consequence, around 3700
The average Maidanetske house size of 77 m² enables us to calculate the inhabitants against the background of known space requirements for persons in sedentary societies (Ohlrau, 2015). There have been several attempts to calculate the correlation between house sizes and the size of the group of inhabitants living in a house. Classical intercultural studies by Naroll, Casselberry, and Brown result in the need for 6–10 m² for one person (Naroll, 1962; Casselberry, 1974; Brown, 1987), modified by Porčić with an index of mobility to an average of 6.97 m² (Porčić, 2012). If the deviations from the general median are taken into account, the synthesis of these ethnographical observations confirms that a person needs 5–15 m² in a house, averaging, for example, the 6.97 m² from Porčić.

The estimated population of Maidanetske adds up, under conservative estimations, to about 12,000 inhabitants, with an improbable maximum of about 46,000 inhabitants and a probable average of 29,000 inhabitants (Table 1), if we reconstruct the contemporary use of houses around c. 3700 BCE, as suggested by the radiometric dating. If we take into account the possibility that only half of the houses were contemporary in use, still about 14,500 ± 8,500 inhabitants are expected to have lived contemporarily in Maidanetske.

As no general differences between the mega-sites have been observed, an application of the Maidanetske demographic calculation model to other mega-sites is possible. Using the estimations of Porčić: for Dobrovidy 14,100–16,200, for Taljanky 15,600–21,000, and for Maidanetske 22,300–23,800 inhabitants were calculated, if only the burnt structures were taken into consideration (Ohlrau, 2015). For Taljanky Kruts about 14,175 inhabitants had been already calculated (Kruts, 1989).

**Typology, Chronology, and Spatial Developments in the Southern Buh and Dnipro Interfluve**

As already emphasized, the validity of a precise regional chronological system for the Volodymyrivska-Tomashivska and Kosenivska group (Trypillia BII/C)
is of major importance for the reconstruction of the demographic processes and mobilities within the Southern Buh and Dniro Interfluve, and to answer the question of whether mega-sites existed contemporarily, and if so, which ones.

Since the ground-breaking spatial and chronological analyses of Passek in the 1930s and 1940s (Passek, 1949), the division into a western and an eastern Trypillia spatial and stylistic tradition became clear (compare, for example, Ryzhov, 2012: 84). On the one hand, the general periodization and phasing of Trypillia is accepted by Moldovan and Ukrainian archaeology in general, on the other hand, regional and local patterns create typo-chronologies for regional and local groups that are sorely discussed (Wechler, 1994; Kruts, 2012: 73; Menotti, 2012: 2f. figure 2; Ryzhov, 2012: 80 ff.; Kadrow, 2013; Diachenko & Menotti, 2015).

Figure 4 compiles the relevant Trypillia periods, phases, and local group development with sub-phases and associated sites for the area under interest. In principle, periods identify general Trypillia developments that are seen in the whole distribution area; phases, the traditional division into general phases; local groups represent the typologically similar groups, which differ from area to area; sub-phases and stages, the division into local chronological units; further and associated sites, the key sites, which are related by Ukrainian research to the typological groups. For Maidanetske, whose assemblages are associated with Trypillia C1 and the Uman area the Volodymyrivsko-Tomashivska and Kosenivska local group is the especially relevant 'typological container', typological belonging to western Trypillia. While the general chronological development of Trypillia periods and phases is supported by some scientific dating, the typological division into sub-phases within the Volodymyrivsko-Tomashivska and Kosenivska local group is under discussion (Diachenko, 2012; Diachenko & Menotti, 2012). In particular, the typological differences during

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<tr>
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<td>CI</td>
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<td>Tomashivka</td>
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<td>BII</td>
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**Figure 4.** The chronology of Trypillia. Besides the main periodization and phasing, the Trypillia regional groups display characteristic inventories with sub-phases. The main mega-sites are indicated in italics (after Diachenko, 2012; Kadrow, 2013; Kruts, 2012; Menotti, 2012; Ryzhov, 2012; Wechler, 1994). The radiometric data describe the chronological value also of CI-sub-phases.

In principle, the typo-chronological model of Ryzhov (2012: 91 ff.) is generally used for the description of the Late Trypillia development in the Southern Buh and Dniipro Interflue. Thus, the early B2 Volodymyrivska group is associated with one-colour, two-colours, incisions; incisions and colour pottery, while the late B2 Nebelivska local group displays painted pottery that shows links to the West. Beside the mega-sites, Nebelivka and Glybochek (<200 ha) settlements of only a few hectares are also known. In the established typo-chronology, the succeeding C1 Tomashivska local group is divided into four phases, defined by different quantities in the distribution of ceramic shapes and ornamentation, for which the ‘Tomashivska-type’ painting with, for example, the display of animals in the ‘ribbon’ manner and the large number of ‘tree of the world’ drawings’ is typical (Ryzhov, 2012: 101) (Phase 1: besides Nebelivka local group elements, the introduction of table crockery, for example, with comet-shaped and simplified line patterns. Phase 2: the sharp-ribbed nature of table crockery types is prominent, as is the standardization of Tangentenkreisband. Phase 3: the presence of sharp ribbing and high shoulders is prominent. Phase 4: sharp profiles). The prominent mega-sites are associated with C1 phase 2 (Dobrovody), Phase 3 (Stage 1: Taljanky; Stage 2 Maidanetske; cp. Diachenko & Menotti, 2012), while the size of sites is generally decreasing with C1 Phase 4 (Tomashivska) and the C2 Kosenivska local group.

Using the typological categories of ceramic shapes and ornamentation, which Ryzhov developed and described (Ryzhov, 1999, 2012), we conducted a CA to identify the statistical gradient of the probable typological similarity sequence. In principle, the first two eigenvectors of the CA verify the typological sequence as developed by Ryzhov (Figure 5). A continuum of a parabola-shaped ‘cloud’ of types and phase-markers identifies a steady and unbroken typological sequence for BII and CI inventories. Clusters of sets with typological similarities could be labelled, which in most cases are congruent with the typological sequences which were developed by Ryzhov. The CA sequence starts with the BII inventories of the Volodymyrivska local group (V), followed by Nebelivska group

![Image of Figure 5](https://example.com/image.png)

**Figure 5.** CA of ceramic shapes and ornamentation types of the Volodymyrivska-Nebelivska-Tomashivska local group sub-phases that were developed by Ryzhov (1999). The typological sequence displays a continuum with a normal distribution of the types that were analysed. The absolute chronological duration of Nebelivka, Taljanky, and Maidanetske, which is based on the available \(^{14}\)C-data, confirms the chronological relevance of the sub-phases, but also indicates the contemporaneity of styles (graphics: L. Brandstätter/F. Müller, UFG Kiel).
inventories of different typological stages (N1 and N2). For the CI Tomashivska local group, four different clusters of typological similarity groups (usually labelled as stages or sub-phases) were developed, of which at least three are in the 'right' sequence: First, eigenvector values for T1, T2, and T3 are in a steady reduction of the values. Only the CI/T4 phase has, judged on a statistical basis, more typological similarities with T1 and T2 than with T3. In principle, we would exclude T4 to be the latest stage in a typological sequence. Nevertheless, in general, the sequence supports the typological classification and sequencing of Ryzhov. The exception of CI/T4 might be due to the fact that mainly smaller and medium-sized sites are identified within this typological cluster, which are partly typologically linked with the other sites from T1 to T3 and only partly later.

Does the detailed typological sequence of the 12 phases, sub-phases, and stages (Figure 4) represent a chronological development or are we also confronted with typological differences that are due to other factors? Within the CA, we reduced the precise typological division to nine sub-phases, for which we could ask a similar question. Owing to the lack of vertical stratigraphies for the CI subgroups, a reliance on \(^{14}\)C-data is a given.

Including Kyiv-data, at the moment there are about 282 radiometric dates published for Cucuteni-Trypillia (Lists 1 and 2). Excluding Kyiv-data, as they are extremely variable and not in line with other labs, only 43 dates remain for Ukrainian sites. In the regional sequence of radiometric dates, only information and data from Taljanky (Trypillia CI/T3 Stage 1) and Maidanetske (Trypillia CI/T3 Stage 2) are published, and information on data from Nebelivka (Trypillia BI/N 1) is available (Chapman, 2015).

The information on the duration of the sites, which was reconstructed from radiometric dates, implies the chronological meaning of the typological sequence that we are discussing. Using the formalized statistical approach for \(^{14}\)C-dates, Nebelivka existed from 3970 to 3800 BCE (Chapman, 2015); Taljanky from 3860 to 3730 BCE (Rassamakin & Menotti, 2011); and Maidanetske from 3800 to 3670 BCE (Figure 6).

As these radiometric data are the result of careful context analyses, they are very useful in the interpretation of the CA:

1. On the one hand, the chronological tendency of the CA is proven. On the other hand, the chronological overlap, for example, of the Nebelivka and Taljanky dates, which spans over six typological

\[ \text{Figure 6. CA of ceramic shapes and ornamentation types of the Volodymyrivska-Nebelivska-Tomabivska local group sub-phases (BI/CI T 1–3) that were developed by Ryzhov (1999). In addition, inventories of the 2013 Maidanetske excavation are added. The }^{14}\text{C-dates indicate chronological tendencies (graphics: L. Brandstätter/J. Müller, UFG Kiel).} \]
sub-phases and stages, clearly demonstrates the long duration of many of the ornamentation types and ceramic shapes. In consequence, only the main focus of their distribution in time is marked by the position of phases and sub-phases within the CA and in the chronological draft (Figures 4 and 5). This is in line with the observation of a continual increase and decrease of the different types.

2. The overlap, especially the data from Maidanetske and Taljanky, suggests that, for these two mega-sites, besides a weak chronological tendency both existed more or less contemporarily (as also noted by Ryzhov, 1999; Shmaglij & Videiko, 2003; Diachenko, 2012).

In a further CA, the new inventories from the 2013 Maidanetske excavation were integrated (Figure 6). They mark the final stage of the development very clearly. Even the association of these units with their *termini ad quem* indicate chronological tendencies of the final stage of the Maidanetske development and the pit inventories.

**INTERPRETATION: CONTEMPORARY MEGA-SITES**

Consequently, in the development of ceramic ornamentation and ceramic shapes we could identify types, which are older and younger in tendency. The differentiation between sub-phases and stages is, for the majority, a question of different quantities in the distribution of ornament and shape types, as Ryzhov already remarked (Ryzhov, 2012). While in this sense, besides the similarities in the inventories, a 'progressive' development could be seen in a sequence from Nebelivka–Sushkovka–Dubrovody–Taljanky–Maidanetske; the contemporary existence of two to three mega-sites at a time is also most probable. Nebelivka lasted until Taljanky was already built up; Taljanky and Maidanetske are more or less contemporary.

As the population calculations indicate, an enlargement of the population in the mega-sites themselves from Dubrovody to Taljanky to Maidanetske took place; obviously a population flow between these sites existed throughout their occupation. In principle, there seems to be a tendency that the bigger the site, the more attractive it is. As the development is quite flexible, the temporal limits for the spatial detection of land-use patterns are artificial (cf. Ohlrau *et al.*, 2016). Nevertheless, population values are quite high. For example, around 3750 BCE we have to deal with about 3500 houses minimum, thus a minimum of 17,500 inhabitants in an area of about 100 km² at the Taljanka River.

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Trypillia Mega-Sites and European Prehistory 4100–3400 BCE

Edited by Johannes Müller, Knut Rassmann and Mykhailo Videiko

In European prehistory population agglomerations of more than 10,000 inhabitants per site are an infrequent phenomenon. The unexpected discovery of the Trypillia mega-sites, excavated nearly 50 years ago by Soviet and Ukrainian archaeologists using a multidisciplinary approach, uncovered the remains of more than 2000 houses spread over 250 hectares. These extraordinary mega-sites developed at the border of the North Pontic Forest Steppe and Steppe zone ca. 4100–3400 BCE.

The excavations provoked many questions: why, how and under what environmental conditions did Trypillia mega-sites develop? How long did they last? Were social and/or ecological reasons responsible for this social experiment? Do Trypillia and the similar sized settlement of Uruk exhibit two different concepts of social behaviour?

During the last decade, paradigm change in fieldwork and excavation strategies enabled research teams to analyse the mega-sites in their spatial and social complexity. High precision geophysics, targeted excavations and new systematic field strategies have provided detailed empirical data. Probabilistic models based on 14C-dates indicate the contemporaneity of the mega-site house structures. Such archaeological research has contributed immensely to our understanding of anthropogenic induced steppe development and subsistence mechanisms that forestalled carrying capacity.

Trypillia mega-sites are an independent European occurrence differing from the concepts of urbanism and social stratification found in similarly sized sites in Mesopotamia. The new Trypillia research can be seen as methodological progress in European archaeology.

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Cover Images (left to right): Maidanetske (Talne district). South area of the mega-site today (photo: S. Jagiolla, Kiel); Taljanky (Talne district). Kiln B, View from the North (photo: A. Korvin-Piotrovsky, Kiev); Lebedzyne (Talne district). Trypillia house reconstructed (background), 14C-calibrated dates from Maidanetske: houses and pits, termini ad quem (foreground) (photo: S. Jagiolla, Kiel).