# ZIRIDAVA STUDIA ARCHAEOLOGICA 36

2022

# ZIRIDAVA STUDIA ARCHAEOLOGICA

36 2022

Editura MEGA Cluj-Napoca 2022

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The content of the papers totally involve the responsibility of the authors.

Layout: Francisc Baja, Florin Mărginean, Victor Sava

ISSN 2392-8786



EDITURA MEGA | www.edituramega.ro e-mail: mega@edituramega.ro

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# Ottoman fortifications on the territory of Banat (the 16<sup>th</sup>–18<sup>th</sup> Centuries)

#### Silviu Iliuță

**Abstract**: Most of the Banat historical province was conquered by the Ottoman army in the 16<sup>th</sup> century. By the mid–16<sup>th</sup> century the Ottoman Empire established what is known as the *Vilayet* of Timișoara (or Eyalet of Timișoara), an administrative-territorial unit which was dissolved in 1716 and, two years later, replaced by a similar unit named *Temescher Banat*. In the following pages I will attempt to reconstruct the defense system of the *Eyâlet-i Temeşvar* using information available in academic literature.

Keywords: ottoman fortifications; stronghold; defense; palanka; Banat.

#### Introduction

The historical province of Banat, delimited to the north by the Mureş River, to the east by the Poiana-Ruscă Mountains, to the south by the Danube, and to the west by the Tisza, is today divided between Romania, Serbia, and Hungary and represents a significant portion of the Ottoman administrative-territorial unit established by the mid–16<sup>th</sup> century, the Eyalet of Timişoara<sup>1</sup>. Between 1552 and 1716, said territory was strongly disputed among the two power poles present in the region: the Ottoman Empire and the Habsburg Empire. During the 17<sup>th</sup> century, the Banat represented approximately 50% of the Eyalet territory. Before the Peace of Karlowitz (26 January 1699), areas under Ottoman control fell one by one to the hands of the Habsburgs, and by the early 18<sup>th</sup> century, the Eyalet's territory stretched only within the borders of the Banat, on an approximately 28.000 km<sup>2</sup> area<sup>2</sup>.

Just after the conquest of the Timișoara Fortress, the Ottoman administration in the region establishes the Eyalet of Timișoara in 1552 and appoints Gazi Kasım Pasha, with the support of Kara Ahmed Pasha, as *beglerbeg*<sup>3</sup> of Timișoara<sup>4</sup>. Several actions then followed intended to reinforce the power of the new leaders: *timar-i defter*, the timar financial registry in 1552<sup>5</sup>; *tahrir-i vilayet*, property census – starting with 1554<sup>6</sup>, enactment of the law books titled *kanunname*<sup>7</sup> in 1567<sup>8</sup>. Concurrently, the authorities commenced systemizing transportation and communication ways by setting up and maintaining main roads – military and trade arteries that would underlie, as we shall see below, the Ottoman defensive system of the Banat.

In the newly conquered territories, the Ottomans subdued, with or without a fight, the fortifications built by the former Hungarian administration, which they either preserved, maintained and improved or demolished to prevent the formation of resistence groups against the newly established rule. Aided by information found in the academic literature, I attempted to reconstruct the image of the Ottoman defensive system, addressing topics like the function of the defensive system, the fortification's construction manner and repair process, their location within the analyzed territory, or the distribution of troops garrisoned in fortresses. The paper is also accompanied by a catalogue of all Ottoman fortifications identified in the [...] Banat area. In the said catalogue I unified information [...] I unified information recovered from historical sources to facilitate their research. I have also created

<sup>&</sup>lt;sup>1</sup> Tr. Eyâlet-i Temeşvar

<sup>&</sup>lt;sup>2</sup> Area computed by Quantum GIS software, the value being of approximately 28314.87 km<sup>2</sup>.

<sup>&</sup>lt;sup>3</sup> *Beyal* beylor, equivalent of governor; Somel 2010, 127.

<sup>&</sup>lt;sup>4</sup> Feneşan 2014, 122.

<sup>&</sup>lt;sup>5</sup> Feneșan 2014, 24.

<sup>&</sup>lt;sup>6</sup> Feneșan 2014, 29.

<sup>&</sup>lt;sup>7</sup> Somel 2010, 245.

<sup>&</sup>lt;sup>8</sup> Feneșan 2014, 38.

a map on which I marked each fortress with its accurate or approximate location (where historical or archaeological information was insufficient), which I used to determine reaction times in the event of an attack or how the position of a fortress impacted garrison compositions. For easier understanding, each fortress was assigned a number on both the map and in the legend per the catalogue and kept the modern names of the places since certain Ottoman names are not entirely similar to those used today.

Aided by these newly set up working tools I attempted to reconstruct a clear image of how the Ottoman defensive system operated in the Banat between the  $16^{th}$  and  $18^{th}$  centuries.

#### 1. The Ottoman defensive system of the Banat

The Ottoman defence of the Banat relied mainly on mutual military aid among the fortresses, facilitated by the well-developed communications network constantly maintained with the support of specialized institutions, like the derbendcis<sup>9</sup>. I identified herein some forty-five fortresses of various ranks, which shall be further discussed starting with aspects like building techniques, location or composition of the garrisons.

#### 1.1 How the Ottoman defensive system operated in the Banat

In medieval times, the territory controlled by the Hungarians was strongly fortified. Because of this, it is difficult to say with certainty how many fortresses were conquered by the Ottomans. According to currently available data, most fortifications in areas conquered by the Ottomans were subdued in the 16<sup>th</sup> century<sup>10</sup>. After 1541, with the conquest of Buda, they set up a network of citadels east of the Danube intending to protect communication and transport pathways already established and well-organized beginning with 1526, just after the victory at Mohács. During the same period, the most important fortifications were believed to lie on the Danube line. There, the Ottoman administration chose to develop the *palanka* system, in contrast to the Banat, where the single fortifications of the palanka type are at Dudeștii-Vechi and Mehadia, and paid less attention to older fortresses (which they called *kale*<sup>11</sup>, built by the Hungarians, commonly out of hard materials)<sup>12</sup>. In the case of the fortifications which the Ottoman empire conquered, there were two options: these were either repaired and improved (later also maintained) or demolished. On the territory of today's Hungary, where the investigation of the Ottoman period is more advanced<sup>13</sup> than in Romania, recent studies have shown that most of the defence works built by the Ottomans are of *palanka*<sup>14</sup> or *parkan* type (fortifications with timber structures different from palankas only by their geographical location, these being located in border areas), those of *kale* type being rarer<sup>15</sup> and most often built since the period of the Hungarian Kingdom, before the Ottoman conquest.

In fortified points whose faith was not demolition, the Ottomans positioned troops, firstly by "borrowing" manpower from nearby fortresses, the main criterion for the installation of a number of soldiers being the fortification's spatial size<sup>16</sup>. Thus, in large fortresses, *Eyalet* centres (as in the case of Buda or Timișoara) one finds in *timar-i defter* (hereinafter termed registers or payment registers drafted once with 1552), numbers that exceed thousands many times. Inside medium-sized fortresses (like Lipova) were officially quartered between 200 and 500 soldiers, while in those smaller (like Ciacova or Denta), the number of soldiers did not ordinarily exceed 100<sup>17</sup>.

In the second case, defensive works were destroyed to prevent the local nobles to use the fortresses in the set-up of groups opposing the new leaders<sup>18</sup>. Gábor Ágoston shows that the majority of Hungarian fortifications conquered by the Ottomans were reused and not demolished<sup>19</sup>.

<sup>&</sup>lt;sup>9</sup> Halaçoğlu 1994, 162 apud https://islamansiklopedisi.org.tr/derbend--karakol

<sup>&</sup>lt;sup>10</sup> Nicolle 2010, 58.

<sup>&</sup>lt;sup>11</sup> Eyice 2001, 23 *apud* https://islamansiklopedisi.org.tr/kale

<sup>&</sup>lt;sup>12</sup> Nicolle 2010, 21.

<sup>&</sup>lt;sup>13</sup> Nicolle 2010, 59.

<sup>&</sup>lt;sup>14</sup> Eyice 2001, 23 *apud* https://islamansiklopedisi.org.tr/kale

<sup>&</sup>lt;sup>15</sup> Ágoston 2011, 227.

<sup>&</sup>lt;sup>16</sup> Ágoston 2009, 68.

<sup>&</sup>lt;sup>17</sup> Ágoston 2011, 227.

<sup>&</sup>lt;sup>18</sup> Akto 2019, 20.

<sup>&</sup>lt;sup>19</sup> Ágoston 2009, 68.

Contrary to certain views expressed by several Hungarian scholars<sup>20</sup>, I assume that the Ottomans had vast knowledge of the peculiarities of the land of the newly conquered territories (also given the performed censuses, *tahrir-i vilayet*) and kept these in mind when the new administrative units<sup>21</sup> were organized. According to Cristina Feneşan, in the Eyalet of Timişoara had survived among other, old Romanian institutions like the knyazi institution, that of the heralds and multiple old districts: Mănăștiur (*Monostor*), Fârdea (*Tverd*) or Șudea (*Sugya*)<sup>22</sup>. These areas were overtaken from the former shire of Timiş just after 1553, when the Ottoman authorities initiated the property census and concurrently, a detailed inquiry of the shire's administrative organization. According to the documents, the decision to preserve the previously mentioned former districts was taken upon the advice of the *Ehi-i Vukûf ve Müsinn*<sup>23</sup>, "*the counsel of the elderly, skilful men*".

The total number of the fortifications in the Eyalet of Buda was estimated to be 130, while for those in the Eyalet of Timișoara references are contradictory, being identified from 39<sup>24</sup> to 76<sup>25</sup> fortresses<sup>26</sup>.

Historian David Nicolle noted that in these parts of Europe, timber-and-earth fortifications are not unknown; on the contrary, these were used since Antiquity<sup>27</sup>. The general idea expressed in historiography according to which this type of reinforcement was effortlessly conquered as it was easily set on fire is contradicted by historical and archaeological evidence. According to historical sources<sup>28</sup>, the Ottoman explorer Evliya Çelebi<sup>29</sup> mentions in his Book of Travel/*Seyahatname* that Timișoara's fortification had its walls covered with gypsum and whitewashed. In several archaeological sites (like Timișoara or Ciacova<sup>30</sup>) were discovered remains of the clay or mortar layers applied on top of the timber structure, which provided somewhat protection against fire. This type of fortification was much varied in terms of shape and size<sup>31</sup> (hence likely part of the European criticism) – some of the reinforcements (generally, those small-sized) being simple palisades composed of a single timber wall and a defensive ditch. Larger fortresses were most often provided by double log walls, filled with earth or mortar, a technique which resulted in considerable wall thicknesses. These structures could thus be used by the garrisoned troops for patrol or the assembly of artillery equipment, having the advantage of an elevated position compared to the ground in the proximity<sup>32</sup>. Materials out of which these fortifications were built could differ from one geographical area to another, in Europe they were made most often out of timber and earth.

To understand the Ottoman fortifications system from the historical Banat, it is first necessary to generally define the ensemble of the reinforcements composing it. We shall give below a few details regarding the fortification types used by the Ottomans in this part of the empire and discuss the issue of one of the most important components of the defensive system, namely the communication paths.

#### Kale

*The kale-type* fortifications were commonly conquered structures, larger in size, built of hard materials like stone or brick and later renovated, extended and maintained<sup>33</sup>. We know for certain that some of the fortifications mentioned in historical sources<sup>34</sup> as *kale* (for instance Timișoara or Ciacova) were built in timber, therefore, at least for the Banat area, this classification of the defensive works seems uncertain.

Data recovered from the field indicates that Timişoara and Ciacova were timber-made, however in two different constructional techniques. According to this information, we note certain inconsistencies between the previously discussed classification and field facts. The recent investigations

- <sup>28</sup> Mehmet, Stoicescu 1976, 497.
- <sup>29</sup> Also known as Derviş Mehmed Zilli.

<sup>31</sup> Nicolle 2010, 21; Akto 2019, 27.

<sup>34</sup> Hegyi 2000, 186–189.

<sup>&</sup>lt;sup>20</sup> For instance in: Hóman, Szekfű 1928.

<sup>&</sup>lt;sup>21</sup> Ágoston 2009, 68.

<sup>&</sup>lt;sup>22</sup> Feneșan 2016, 114.

<sup>&</sup>lt;sup>23</sup> Feneșan 2016, 114.

Akto 2019, 33.
 Cubachi 1070

<sup>&</sup>lt;sup>25</sup> Guboglu 1970, 36.

 $<sup>^{\</sup>rm 26}$   $\,$  The number generally varies in each work published until this text was prepared.

<sup>&</sup>lt;sup>27</sup> Nicolle 2010, 21.

<sup>&</sup>lt;sup>30</sup> Forthcoming information.

<sup>&</sup>lt;sup>32</sup> Nicolle 2010, 21.

<sup>&</sup>lt;sup>33</sup> Hegyi 2000, 167.

performed in said fortresses yielded relevant data on the building fashion. For instance, the Ottoman fortress of Timișoara frames, according to Evliya Çelebi, among the *dolma rihtim palanka duvar*, while Ciacova in the class of *yalın kat çit palanka*<sup>35</sup>. Unfortunately, the archaeological excavations conducted over time in other *kale* are either unpublished or partially published, most of them failing to mention the constructional technique. Therefore, one may believe that all fortifications conquered by the Ottomans in Hungary are called *kale*, while the ranks of *palanka* and *parkan* are reserved for those built from the ground up by the Ottomans.

The class of fortresses termed *kale* from today's space of the province of Banat frame the following: *Beşkelek, Çenar, Felnak, Haram, Irşova, Pofça, Puva, Semlik, Şakvan, Tamaşvar*<sup>36</sup>.

#### Palanka

The *palanka* is not, with certainty, an Ottoman invention, the building technique being very similar to that of Roman date earth-and-timber forts. To the Ottomans, the technique originates from the early period of the empire, when, in the siege of certain fortifications are mentioned *havale*<sup>"37</sup> type structures. These are reinforcements similar to palankas, of small sizes, built nearby fortresses which the Ottomans sieged. These strongholds were used to shelter machinery and troops against enemy fire. Such structures are documented during the siege of the Bursa fortress in 1326, being subsequently more frequently mentioned, including much later, in 1566, when the fortress of Seghedin (Szighetvár)<sup>38</sup> was under siege.

Likely inspired by the *havale* model, the *palanka* has similar features being a defining fortification type of the Ottoman defensive system from this part of the empire. Together with *kale* and *parkan*, they formed, as we shall see below, a well-organized network of fortifications that offered the opportunity of swift action if needed on both roads and navigable rivers<sup>39</sup>. The fortified elements are specific to the 15<sup>th</sup> century. Strongholds include rounded bastions by their extremities and walls strategically reinforced in key points<sup>40</sup>. Laying siege on such fortifications with equal firepower could cause irreparable damage in many cases. Their role was yet not to be entirely indestructible before warfare machinery. These earth-and-timber structures, compared to their stone or brick counterparts, had the advantage of material elasticity. Thus, the forceful cannon strikes could be absorbed with great efficiency, thus making possible the enemy's delay until the units from neighbouring fortresses could provide military support.

Among the *palankas* are included the following citadels: Besenyő, Mehadia<sup>41</sup>.

#### Parkan

The Turkish scholar Burcu Özgüven argues that the single notable difference between the *palanka* and *parkan* is location. The parkans were situated in border areas, while palankas by roads or navigable waterways used for trade and movement of armed forces<sup>42</sup>.

Parkans are the following fortifications: Duna Varad, Façat, Pançova, Sarad, and Varat<sup>43</sup>.

#### Derbent

According to some scholars, *derbent* are fortifications resembling the *palanka* and the *parkan*, located in areas deemed dangerous like mountain passes, passages etc<sup>44</sup>.

According to Cristina Feneşan *derbent*<sup>45</sup> was an institution part of the Ottoman empire whose primary purpose was to ensure the circulation of individuals and goods as well as all communication-related aspects: road building, road maintenance, and performance of various works (bridge

<sup>43</sup> Hegyi 2000, 186–189.

<sup>&</sup>lt;sup>35</sup> Özgüven 2001.

<sup>&</sup>lt;sup>36</sup> Hegyi 2000, 186–189.

<sup>&</sup>lt;sup>37</sup> Özgüven 2001, 1–2.

<sup>&</sup>lt;sup>38</sup> Özgüven 2001, 1–2.

<sup>&</sup>lt;sup>39</sup> Özgüven 2001, 6.

<sup>&</sup>lt;sup>40</sup> Özgüven 2003, 158.

<sup>&</sup>lt;sup>41</sup> Hegyi 2000, 186–189.

<sup>&</sup>lt;sup>42</sup> Özgüven 2001, 3.

<sup>&</sup>lt;sup>44</sup> Akto 2019, 27.

<sup>&</sup>lt;sup>45</sup> The term meant a pass, narrow place or straits.

construction and maintenance). It also dealt with and kept the postal system infrastructure (staff, postal horses (*ulak*) etc.). *Derbentjii*, as called by said author, were recruited from villages or towns located in the vicinity of the main roads or roads deemed dangerous for travelers. On the territory of Banat, the single relevant data on this institution comes from the area included in the territory of today's Serbia, where villages responsible for such actions were as follows: Haramul Vechi, Kusić and Janesevo. The same institution operated in the urban environment at Vârşeţ, Kovin and Pančevo. In the *sandjak* of Timişoara, the *derbendjii* from the Kusić village were bound to monitor the road connecting Timişoara to Vârşeţ and the fortress of *Duna Varad*<sup>46</sup> to *Haram*. For this to be successful, the officials carried light weapons and rarely hot weapons. In exchange for their service, the villages and towns they inhabited were exempted from various taxes and duties<sup>47</sup>.

#### Communication paths

Land survey is one of the criteria based on which the Ottoman defensive system in the Banat was designed and later developed. Land configuration differences seemingly determined the frequency of fortifications, road positioning and garrison composition<sup>48</sup>. An eloquent example in this respect may be provided by the Ottoman registers that do not record a significant number of mounted troops<sup>49</sup> in fortresses located in wetlands<sup>50</sup> (due to poor horse mobility).

The communications network is one of the many important components of the defensive system. The fortifications had well-established communication ways in-between, which benefited their defence. (Pl. 1<sup>51</sup>) On the other hand, these connections could have been equally detrimental, as if the major fortification in the region was conquered, the smaller could be besieged and captured easily<sup>52</sup>. In the Buda Eyalet area, the literature marks the distance between fortifications as one or less marching days one from the other<sup>53</sup>, hence it may be assumed that circumstances were not much different in our area of interest.

Fortifications located by the edge of the empire (in the frontier area, hence in an especially strategic important place) lay occasionally in a deplorable condition. A good example in this respect is the fortification of Pécs in 1664 which, in a poor state, was easily conquered by the Habsburg troops<sup>54</sup>. The condition of the Ciacova fortress was not much more fortunate around 1603–1604. In the mentioned period, Wathay Ferenc is taken prisoner and locked up temporarily inside the Ciacova fortress. To Wathay belongs a miniature<sup>55</sup> depicting the poor state of the fortress's bridge pulley system which is shown to be damaged.

The new Ottoman fortifications system, carefully set up and systemized until after 1580, was not long-lived in its original form. Over time, the fortresses passed repeatedly from the Ottomans to the Habsburgs, borders changing rather often between the two empires<sup>56</sup>. Most affected was the civil population in the condominium area<sup>57</sup>, which paid taxes to both the Ottomans and the Habsburgs. Also, cases when the troops of the Ottoman empire raided these parts to plunder the villages and take prisoners<sup>58</sup>, later sold on the empire's slave markets were not infrequent. The parts north of the Mureş River remained under Ottoman control until almost the late 17<sup>th</sup> century, while those south of the river until 1716. Compared to the historical sources discussing the issue of the Buda Eyalet, those surviving on the Timişoara Eyalet are poor in information (quantity and quality wise) and most often, the construction of the fortresses in this region is impossible to properly date<sup>59</sup>.

The Ottoman fortifications system in the Banat functioned similarly to a living organism, being

- <sup>51</sup> The road structure is inspired by Hegyi 2019.
- <sup>52</sup> Akto 2019, 21.
- <sup>53</sup> Hegyi 2000, 161.
- <sup>54</sup> Nicolle 2010, 48.
- <sup>55</sup> Wathay 1604, 28/1.
- <sup>56</sup> Hegyi 2000 167.
- <sup>57</sup> Border area subject to taxation to both the Habsburg and Ottoman empires.
- <sup>58</sup> Mehmet, Stoicescu *el al.* 1976, 338; 574.
- <sup>59</sup> Hegyi 2000, 186.

<sup>&</sup>lt;sup>46</sup> The Saint Ladislau (Sf. Ladislau) fortress.

<sup>&</sup>lt;sup>47</sup> Feneșan 2017, 133–138.

<sup>&</sup>lt;sup>48</sup> Akto 2019, 21.

<sup>&</sup>lt;sup>49</sup> At least for the *Kanije* fortification on the territory of today's Hungary.

<sup>&</sup>lt;sup>50</sup> Ágoston 2009, 71.

an active network that acted locally, quickly and efficiently to protect assets and people. Owing to unfortunate circumstances (for instance the incomplete survival of pay registers and lack of specialists in the study of the Ottoman period), the quantity of currently available information is unsatisfactory. Without comprehensive studies (regarding archival documents and archaeological sites), the draft of works tackling the entire Ottoman defensive system from the Banat is a burdensome process generally reliant on studies made by Hungarian historians. In this state of research, the only useful data are the fortress descriptions of the period, the fragmentarily surviving Ottoman registers, the few old maps (in general, published by Hungarians researchers) and few archaeological excavations, most often partially published. Thus, in the current study, we identified some 45 fortresses in the historical Banat, based on which we reconstructed the Ottoman defensive system in the 164 years during which the Ottomans lived beside the Romanians, Hungarians and also Serbians.

#### 1.2 The construction manner of the fortresses

As aforementioned, the fortifications of the Ottoman empire in the Banat were divided into several classes precisely in the documents of the imperial administration: *kale*, *palanka* and *parkan*. Below we shall address the constructions of the *palanka* and *parkan* type fortifications as these are the only ones that, according to historical sources, were built by the Ottomans<sup>60</sup>.

*Palanka* or *parkan* walls were commonly built of oak trunks, chosen because of their resistance over time, set vertically, close to one another and covered with loam or mortar<sup>61</sup> to prevent inasmuch as possible fires and decay. The oak trunks were placed at a relative distance one from the other (in general between 0.20–0.40 m). Also, their size varied from 0.15 to 0.40 m<sup>62</sup>. The archaeological excavation conducted at Ciacova in 2017–2018 yielded small posts (0.15–0.20 m) grouped as two, a method likely used to compensate for the lack of larger wooden post<sup>63</sup>. The construction of such fortifications was a process developed in a relatively short time on the whole, compared to building in materials like stone or brick. In many cases (although unattested archaeologically to date in the Banat region) *palankas* had a roofed tower above the main gate for defensive purposes<sup>64</sup>.

Besides safeguarding warfare pieces of equipment (battle machinery, weapons, gunpowder etc.), the construction of such a fortress also aimed at protecting the garrison (most often, houses were within the walls) as well as the community's valuables<sup>65</sup>. Regarding the building techniques of the Ottomans, Wenner von Crailzheim wrote in 1622 the following about the *palankas: "such palankas are partly made of simple timber elements and partly of double or triple layers* [of the same material] *held together with mortar* [and of tree trunks set transversally within the wall] *and filled* [with earth]"<sup>66</sup>. The term *palanka* was often used by the Ottoman travellers like Evliya Çelebi or Pecevi<sup>67</sup>.

The word *palanka* originates from ancient Greek ( $\varphi \dot{\alpha} \lambda \alpha \gamma \xi - ph \dot{\alpha} lanx$ ), which could mean besides the well-known battle formation also tree trunk or log in reference to the material out of which the fortification was built<sup>68</sup>. Architecturally, these constructions are commonly made according to a simple, rectangular plan, surrounded by a ditch (*şarampa*) and guarded by a tower above the gate called *ağaçtan lonca köşkü*. Concerning the constructional technique of the defensive ditch, there is little information to date. We may infer that the tools used in this process included shovels and spades (in fact recorded in the preserved inventory registries<sup>69</sup>). I mention here the find of such an Ottoman period spade at Ciacova, in a feature located *intra muros* (the material is currently being processed and will be included in a future paper), associated with pottery fragments of *Mohács* type and green glaze ceramics. The building technique noted at Ciacova involves small gradient slopes on external parts, respectively

<sup>&</sup>lt;sup>60</sup> The same building technique is theoretically valid for the *parkan type* fortifications which, according to the literature, were built similarly.

<sup>&</sup>lt;sup>61</sup> Özgüven 2003, 158.

<sup>&</sup>lt;sup>62</sup> Vadas, Szabó 2018, 490.

<sup>&</sup>lt;sup>63</sup> Forthcoming information.

<sup>&</sup>lt;sup>64</sup> Like the case at Timișoara or Felnac, if one should believe Wathay Ferenc.

<sup>&</sup>lt;sup>65</sup> Özgüven 2003, 158.

<sup>&</sup>lt;sup>66</sup> Özgüven 2001, 2.

<sup>&</sup>lt;sup>67</sup> Özgüven 2001, 3.

<sup>&</sup>lt;sup>68</sup> Woodhouse 1910, 617.

<sup>&</sup>lt;sup>69</sup> Stein 2007, 56–59.

larger internally (towards the fortress) – similar data being noted and published for the Bács fortress<sup>70</sup> in Hungary. The fortification gate was reached after a bridge was crossed first. By the fortification corners, there are round or angled bastions (like at Bács<sup>71</sup>), on which artillery equipment was affixed<sup>72</sup>. *Palankas* walls are of two sorts: double or triple, filled with mortar (or earth), termed "*dolm arihtim palanka duvar*"; and simple, called, according to Evliya Çelebi, *yalın kat çit palanka*<sup>73</sup>.

One of the major issues of understanding Ottoman military architecture is represented by the lack of architectural treatises detailing the building techniques and methods. In the fortress builder's guild of the Ottoman Empire, the practice of sharing such knowledge was discouraged, contrary to the fashion in the western states<sup>74</sup>. Among the views expressed at the time by European travellers, most are negative. The foreign observers, accustomed to the Italian style, *trace italienne*, criticised the forms chosen by the Ottomans: round bastions, conical roofs etc<sup>75</sup>. According to Christopher Duffy, by early 19<sup>th</sup> century, a European observer recorded the following on the palankas: "With regard to the art of fortification among the Turks, little can be said in its praise. They have no idea of a regular system either of bastions or of lines, or outworks or covered ways, nor of conforming the height of the works to the nature of the ground in front. When we find anything of this kind in a Turkish fortress, we may be assured that it has been in the hands of some European power, buy which it has been improved or originally constructed."<sup>76</sup>).

The literature of the last century suggested that the Italian style was unfamiliar to the Ottomans. According to G. Ágoston, this is not valid, as among the fortifications they conquered (like Egri, Uyvar, *Kanije* or Gyor) there were also some built in this manner<sup>77</sup>. In this respect, we also mention the Barcs *palanka* (Hungary), whose bastions exhibit straight angles<sup>78</sup>. Thus, it may be assumed that the rareness of this constructional style is due to Ottoman's preference for building circular bastion irregularly-shaped fortifications, apparently missing careful systematization.

Concerning Ottoman military architecture, the most difficult topic to be cleared is undoubtedly represented by finding written information regarding the era. As previously argued, compared to the Europeans, the Ottomans wrote no treaties of military architecture for reasons one may only presume (economy, security), truly valuable information being carefully preserved and passed on by masters. Existing narrative sources are vague in terms of fortification construction, providing therewith data as poor as possible in historical information. Montecucolli notes that civil settlements lay at a distance from the fortifications and that these were generally open<sup>79</sup>, which is contradicted in the Banat by the existence of the two suburbs of Ottoman Timişoara protected at their turn by palisades and defensive ditches<sup>80</sup>.

When discussing fortification repairs, written sources are again poor in information. For instance, in 1663 after the conquest of the *Uyvar*, Fındıklılı Mehmed Ağa reports that all efforts were focused on the fortifications repair and ditch cleaning (deliberately filled by the Ottomans during sieges, according to the historical accounts) without providing yet other details on what such "repairs" entailed. In the 17<sup>th</sup> century, a Vizier whose name is unknown, orders the improvement of the Timişoara fortress by adding a few mobile towers (on wooden teams) and the repair of the external walls of fortresses in the *sandjak* of Timişoara<sup>81</sup>. The working techniques are somewhat detailed in a 1677–1678 document reporting the repairs carried out at Gradiška *palanka* (in today's Bosnia and Herzegovina), at the *beylerbey*'s order. The entire operation lasted for around 10 weeks and was carried out late in the summer. The document mentions the employees specialized in the construction of palankas, "*those who built the parallel lines between the vertical logs and filled the remaining space with earth*" as well as blacksmiths and carpenters. It also mentions that such specialized builders were called upon only when necessary<sup>82</sup>.

- <sup>73</sup> Özgüven 2001, 5–6.
- <sup>74</sup> Şakul 2013, 16.
- <sup>75</sup> Şakul 2013, 16–17.
- <sup>76</sup> Duffy 1979, 216.
- <sup>77</sup> Ágoston 2009, 24.
- <sup>78</sup> Gyöngyi, Sümegi 2011, 114.
- <sup>79</sup> Stein 2007, 48.
- <sup>80</sup> Opriș 2007, 16–19.
- <sup>81</sup> Stein 2007, 50–51.
- <sup>82</sup> Stein 2007, 50- 53.

<sup>&</sup>lt;sup>70</sup> Gyöngyi, Márton 1996, 163–182.

<sup>&</sup>lt;sup>71</sup> Gyöngyi, Márton 1996, 163–182.

<sup>&</sup>lt;sup>72</sup> Özgüven 2001, 5.

The first illustration depicting the *palanka* belongs to count Luigi Ferdinando Marsigli and was published in Diderot's work<sup>83</sup>. It closely renders the *palanka* design, presenting in detail the walls, while their assembly manner may be easily deduced. An even better-exemplified scheme of the building technique of the earth-and-timber walls is found in David Nicolle's work<sup>84</sup>.

A special building technique (unrecorded so far in the Banat) involves the use of *Horosani-type* mortar, out of which were built resistance structures supporting the wooden mass able to stop somewhat easily (with minimum damages) cannon blows. The preparation of this mortar type involved among other mixing crushed bricks with calcium oxide (quicklime) and the use of the resulting matter for reinforcing wooden structures. Most repairs (or fortification constructions) were performed after the area was secured by the Ottoman troops (usually by taking control over the larger fortresses in the region)<sup>85</sup>.

According to Kl. Hegyi, in the Banat area it is unknown whether such fortifications were built, however eloquent examples in this respect may be found rather close, on the current territory of Hungary. There, the Ottomans built such forts on ruinous sites (of fortified churches or citadels) or, simply, from the ground up<sup>86</sup>. The palankas or parkans, though not so active militarily as the considerably larger fortifications are especially important, as we shall see, for the Ottoman defensive system, these being the main centers from which action was swift in the event of an attack.

Although historiographic sources are at first sight scant in information, once historical data were compiled with the archaeological ones, we succeeded to supplement general knowledge on the building techniques that the craftsmen of the time strived to protect and identified a mortar type yet to be archaeologically attested on the territory of Banat. Also, we detailed the repair process of a *palanka* and the views of foreign European travellers on the shapes and building techniques used by the Ottomans. Once more, the above-presented information refutes the arguments of nationalist historiography according to which the Ottomans had no concept of organized structures and were unaware of the building techniques deemed modern at the time.

#### **1.3 Fortress locations**

The location of the Ottoman fortresses within the territory of the Banat is likely one of the most important aspects of the network existing here. As previously stated, the key to the fortresses' defence was the support that the attacked citadels could receive in the shortest possible time from the neighboring fortifications. To ease the research process, we adopted the road model provided by Kl. Hegyi and designed a map (Pl. 1) illustrating the identified fortifications, land communication paths, main rivers and a few suggestions for secondary roads. With the aid of this resource, we propose to check, since possible, certain assertions related to reaction times, fortress locations or the composition of garrisons quartered there.

Regarding the locations in the discussed area, most fortresses lay on the main arteries (for commercial and military purposes) or nearby rivers (the Danube or rivers like the Mureş, Timiş, Bega or Bârzava). Out of the forty-five identified Ottoman fortifications in our area of interest, the majority are situated on the main roads that cross the region. To better understand the Ottoman communications system, we shall discuss the land routes in-between the most important points, as follows:

- 1) on route Irșova –Pece we identified nine fortifications (467 km)
- 2) Varat-Yenipalanka, six fortifications (262 km)
- 3) Lugoș-Marçina, four fortifications (36 km)
- 4) Semlik–Pançova, three fortifications (65 km)
- 5) *Szeged–Beşkelek*, four fortifications (133 km)

Among fortifications by waterways, we shall mention only those by the above-mentioned rivers (since almost all lay in the vicinity of a water source servicing the nearby fortress or settlement), as follows:

1) on the Danube, we identified eight fortifications, on an approximately 260 km stretch

<sup>&</sup>lt;sup>83</sup> Diderot, d'Alambert 1751, 149, plate XLI.

<sup>&</sup>lt;sup>84</sup> Nicolle 2010, 26.

<sup>&</sup>lt;sup>85</sup> Ágoston 2009, 17–18.

<sup>&</sup>lt;sup>86</sup> Hegyi 2000, 166.

2) on the Mureș River, five (located on both the river course and very close to it), in an approximately 200 km segment

3) on the Bega River, four (today channeled and with a fundamentally different course), in a segment of approximately 200 km

4) river Timiș seven (dammed, with an occasionally changed course) on an approximately 280 km stretch

5) on river Bârzava two, in an approximately 150 km segment

6) on river Caraș three, in a segment of approximately 100 km

7) on river Tisza a single fortification, in a segment of approximately 160 km

The distance between the identified fortresses varies. Each fortification lies at a maximum of one marching day one from the other (data computed by software *Quantum GIS*, the standard moving speed on foot value being 4.8 - 5 km/h). The analysis was based on the distance computation between the fortifications, using the model of the communication network provided by Klára Hegyi<sup>87</sup>. In the event of an attack on Timișoara, for instance, troops from approximately seven fortresses could have intervened in under a day, had these not been already conquered. The advantage of this defensive system consisted, as we supposed before this analysis, not in the resistance capabilities of a single fortification before the attackers but the swift intervention of the troops installed in the neighboring fortresses via the available vast communications network (by both water and land).

In terms of the geomorphological aspects of the terrain, the single landscape depiction in the Ottoman period is Engel Pál's map, published in 1996<sup>88</sup>. It renders vast areas covered with marshlands, a landscape that radically changed with the drainage and damming works carried out by the Habsburgs after the conquest of the Eyalet. The map that displays the *sandjaks*<sup>89</sup> of Timișoara and Moldova is, according to our knowledge, the only landscape reconstruction of these territories in medieval times and therefore, an important resource for the current study.

Thus, with the aid of the map designed in Quantum GIS, we created one of the most complete overall images of the Ottoman Banat in terms of the communications network and fortifications system. Aided by this essential resource I could compute the required average time for movement in-between the fortifications and trace the main commercial routes (by land and rivers). Also, as mentioned, I suggested secondary routes in between close fortifications using maps drawn up just after the Austrian conquest, aided also by modern satellite images.

#### 1.4 Troops distribution in the fortifications and the soldier lifestyles

The analysis of garrison compositions in the fortifications from the investigated area relied on some of the most important documents of the Ottoman period published for this region: the pay registers periodically drafted by the tax authorities of the empire. The main reason behind their study arose from the need to classify fortresses according to their military strengths and verify several theories launched in the academic literature. Besides the above-mentioned registries, we also examined certain inventory lists (drafted for both fortifications and individuals in the empire's administration) in order to reconstruct the lifestyle of the soldiers.

Within fortifications, troops were distributed according to several criteria: fortification sizes, strategic location, needs of the Ottoman Empire, etc. For the Banat area, the main documents referencing the number of troops garrisoned within fortresses are the registers drawn up between 1552 and 1716<sup>90</sup>. These documents have generally survived fragmentarily, missing certain years for some of the fortifications like Ciacova, Novi Bečej or Denta. The troops' diversity in the Ottoman Banat fortifications is impressive, garrisons being composed of the following: infantry units (*azeb*), horsemen (*farisan*), artillery / gunners (*topçu* and *top arabacı*), *martolos*, fortress defenders (*müstahfız*) or janissaries (*yeniçeri*). The same registers record army auxiliaries as well, like artisans, pontoniers, religious staff and others<sup>91</sup>. We shall list below the data available to date (published for the first time by Klára

<sup>&</sup>lt;sup>87</sup> Hegyi 2019, 310, MAP 1.

<sup>&</sup>lt;sup>88</sup> Engel 1996, 70–71.

<sup>&</sup>lt;sup>89</sup> Ottoman administrative-territorial unit inferior to the Eyalet.

<sup>&</sup>lt;sup>90</sup> Hegyi 2000, 186–190.

<sup>&</sup>lt;sup>91</sup> Hegyi 2000, 174.

Hegyi<sup>92</sup>) on the military strengths of the fortifications in the Banat. To ease the working process and better understand the data we shall present these in tables, alphabetically, using current names (when available), as follows: Bocșa, Cenad, Ciacova, Coronini, Kovin, *Daubadad*, Denta, Drencova, Dudeștii-Vechi, Făget, Felnac, *Haram, Ictar*, Jimbolia, Lipova, Liubcova, Mehadia, Novi-Bečej, Orșova, Pančevo, Rudna, *Sarad*, Timișoara, Vârșeț, *Yenipalanka*, Zdrenjanin (Tab. 1–26).

Because troop titles from the Ottoman period may be somewhat confusing, we shall attempt to provide an as concise as possible explanation. Thus, according to Mark Stein, the azebii (azaps) are unmarried men in a generally good health state, strong and brave. Ottoman customs say they must not have children or other direct dependent persons<sup>93</sup>. The same author theorizes that Ottoman cavalrymen, although apparently without much use in terms of defending a fortification played quite a well-established role. In the event of an attack, they harassed enemy troops, cut communication lines and supply routes or set up raids on enemy territory plundering nearby fortresses and villages<sup>94</sup>. The gunners were for instance responsible for making and maintaining battle machinery, besides their use. Cannon transport was the task of a special class of *topçu<sup>95</sup>*, *top arabaci* who built and maintained the carriage teams and used animals of burden<sup>96</sup>. Mustafiz or fortress defenders, as called by Cristina Feneșan<sup>97</sup> are units directly responsible for the fortification integrity. They carried out repairs, cleared the silted defensive ditches or extended and improved the fortress. In their units were distributed the artisans (ironsmiths, carpenters or kolofatce, masons). The term mustafiz seemingly originates from Arabic and means "he who defends a place"98. The martolos units were mixed Christian and Muslim troops that in the 17th century represented some of the most significant strengths of the Ottoman army. The reasons for which Christians would enrol in the Ottoman army could be varied and also, intuitive. The martolos were exempted from local taxes and fees or war taxes<sup>99</sup>. The craftsmen (carpenters, blacksmiths or masons) were, as aforementioned, raised in the mustafiz units and generally dealt with maintaining the fortifications, production of necessary raw materials and coordination of works<sup>100</sup>.

The southeast European historiography of the early period wrote lengthily about the "*Turks*" and their leadership. Now, there is a consensus that most<sup>101</sup> Ottoman soldiers and clerks from today's Hungary (implicitly, the Banat) come in fact from the Balkans<sup>102</sup>. While the official language of the empire administration was Ottoman Turkish, most often the Ottoman authorities from the Buda or Timișoara Eyalets spoke Hungarian for practical reasons. According to Gabor Ágoston, it was much easier to find a Hungarian speaker who also spoke Ottoman Turkish than an Ottoman Turkish speaker who was speaking Hungarian and was also familiar with German or Latin. Hence, translators and scribes played a highly important role and because of them, many texts and letters of high officials of the empire written in Hungarian<sup>103</sup> are available to us today.

Inventory lists of equipment from fortification deposits have also survived over time. The stored supplies and pieces of equipment used within the fortresses may provide relevant information in connection to the lifestyle and occupations of its inhabitants. Three identified such lists survived for the area of interest and provide information on the military storage facility of the fortification at *Egri*, the supply storage in the fortress of *Ada Kale* and supply registers for various frontier forts<sup>104</sup> (without mentioning their name or location). Upon their analysis, Mark Stein divides equipment recorded by documents into a few classes as follows: artillery weaponry<sup>105</sup>, hand weapons, consumables for fire

- <sup>96</sup> Stein 2007, 81.
- <sup>97</sup> Feneşan 2014, 25.
- <sup>98</sup> Stein 2007, 86–87.
- <sup>99</sup> Stein 2007, 89–90.
- <sup>100</sup> Stein 2007, 104.
- $^{\rm 101}~$  Most public officials, the Pashas,  $\mathit{kadi}$  , teachers, dervishes, soldiers and so on.

<sup>&</sup>lt;sup>92</sup> Hegyi 2007.

<sup>&</sup>lt;sup>93</sup> Stein 2007, 76.

<sup>&</sup>lt;sup>94</sup> Stein 2007, 78.

<sup>95</sup> Gunner.

<sup>&</sup>lt;sup>102</sup> Ágoston 2011, 232.

<sup>&</sup>lt;sup>103</sup> Ágoston 2011, 233.

<sup>&</sup>lt;sup>104</sup> Stein 2007, 54.

<sup>&</sup>lt;sup>105</sup> It seems that the number of gunners was directly influenced by the position, size, danger degree of the area or even by the presence there of a foundry.

weapons (gunpowder, projectiles), armors, raw materials, tools, wares and materials for the maintenance of fortifications. A large quantity of weapons is recorded in the armories of the fortifications for which the inventory lists were drafted: bows of various types (of type Istanbul, Tatar and Turkmen, the latter two likely used on horseback), various arrow types (Egyptian and "decorated" arrows), axes, daggers, swords and bludgeons. Gunpowder (an important resource in battle) was generally produced in larger fortifications like Timișoara or Buda<sup>106</sup>. According to the supplies list, some of the small fortifications produced gunpowder but only for their own use<sup>107</sup>. Cannonballs, musket lead balls, transport teams, exchange parts, horses, asses or oxen are also included on the lists. Fortress maintenance requires (as recorded on the inventory lists) nails, saws, hammers, carpenter's axes, spades (like the one unearthed in Ciacova) or shovels. On the same list emerge raw materials and tools for artisans (various metals, blacksmith hammers, anvils, tongs, chains, wax, bitumen, fabrics, oils) yet also domestic use objects like wares and household objects: cooking and tableware, pans, rugs, sheets, cane and leather baskets, paper, leather buckets or torches<sup>108</sup>. For instance, the excavations conducted in the Ciacova city yielded in situ in a feature dated to the Ottoman rule period olive and peach kernels in the intra-muros area, close to the fortress's eastern wall. Unfortunately, for the Ottoman Banat there is, at the time when this paper was drafted, no published inventory list, hence we may only assume that some of the weapons, tools and the remainder objects found on the discussed lists are also found on inventory lists for the fortifications in the historical Banat area. In this respect, we mention the many archaeological finds from Timişoara<sup>109</sup> or Ciacova<sup>110</sup>.

An interesting aspect to clarify is the inventory of the fortress staff. The discussion is limited to the rareness of such inventory lists drafted in very special situations (when the deceased had no successors or they were too far to claim the property<sup>111</sup>). In this case, we found a single example worth analysis here: a public official who died in 1553. The list of Kiâtib Pervānebin 'Abdullah's possessions, who died on July the 2nd 1553 contains 35 goods (the house and garden included). The total value of his assets is ~6600  $akçe^{112}$ . By comparison, the total property value of the high-ranking timariot, Mehmed Čelebi deceased in August 1568 rose to no less than 47000  $akçe^{113}$ .

Although the assets value of a simple soldier most likely did not amount to the assets value of Kiâtib Pervāne, the list which contained weapons, dress items, wares and domestic use objects offers the opportunity to identify at least hypothetically the possessions owned by the 16<sup>th</sup>-century Ottoman middle class.

According to G. Ágoston's observations, the garrison composition of a fortress was influenced, besides the already mentioned physical size of the construction, by its geographical location as well. Ágoston noted that the Ottoman registers recorded fewer troops fighting on horseback in the wetlands of the empire and offers the example of the fortification at *Kanije* (Nagykanizsa, Hungary), encircled by swamps in the Ottoman period. In the fortification, much of the garrison is composed of infantry troops, the ratio between mounted and infantry units being 60:37 by mid–1600s. On the contrary, Ágoston mentions that cavalry units were mostly present in fortifications by the Hungarian frontiers (in territories under both Habsburg and Ottoman control) without yet further specifications and examples in this respect.

In my area of interest, the morphological aspects of the land during the period tackled by the reputed Hungarian scholar are most likely similar to those in the proximity of Kanija. The single map depicting the Banat landscape in the discussed period was drafted by Engel Pál<sup>114</sup>. Accordingly, most spread marshlands from the Timișoara Eyalet are located in the Timișoara, Ciacova and Alibunar areas. The first survey figures these areas partially drained, while later surveys show that many of the lands covered by marshy soils had disappeared, while those existing were strongly channeled and

<sup>&</sup>lt;sup>106</sup> Stein 2007, 55.

<sup>&</sup>lt;sup>107</sup> Stein 2007, 56.

<sup>&</sup>lt;sup>108</sup> Stein 2007, 56–60.

<sup>&</sup>lt;sup>109</sup> Published in various studies over the course of time, see: Draşovean *el al.* 2007; Draşovean *el al.* 2018; Flutur *el al.* 2018; etc.

<sup>&</sup>lt;sup>110</sup> Weapons, tools, building materials, forthcoming.

<sup>&</sup>lt;sup>111</sup> Gerelyes 1985, 276.

<sup>&</sup>lt;sup>112</sup> Ottoman coin *apud* Somel 2010, 295; Gerelyes 1985, 296–297.

<sup>&</sup>lt;sup>113</sup> Gerelyes 1985, 301–305.

<sup>&</sup>lt;sup>114</sup> Engel 1996, 70–71.

almost entirely drained. A drawback in the research and analysis of this area is represented by a fact mentioned earlier: the fragmentary preservation of the Ottoman pay registries for the Banat area.

In the analysis we shall use the same method that Ágoston applied for the *Kanije* fortification: computation of the infantry, respectively cavalry percentages in the total quartered troops, of the yearly mean and the ratio between the two resulting numbers. Wishing to preserve a somewhat unity of the text and easier understanding of the information, we shall present below datasets still in the alphabetical order of the fortifications. Thus, according to the data listed in table 27 (see Tab. 27), we note that G. Ágoston's hypothesis regarding the *Kanije* fortress is also valid for the fortresses in our research area. In conclusion, we believe it is possible to obtain much more information from the apparently incomplete Ottoman registers upon this model, by correlating historical and archaeological data (where these exist). Thus, an approximate hypothetical force may be determined depending on fortification sizes based on known examples from the field, using garrison sizes.

Another interesting aspect further reported by Ágoston is that when the entire province was secured and the power of the new leaders consolidated, the Ottomans withdrew (or, better said, distributed in the fortifications from respective territory) the existing strengths and soldiers directly paid by the Porte (janissaries<sup>115</sup>), which were gradually reduced as provinces became increasingly safer<sup>116</sup>.

Concluding, the garrison of a fortification was influenced, in terms of its composition, by several factors. In large fortresses, sensitive points of the province, the type and number of soldiers were directly proportional to the fortification's physical sizes and degree of importance. In smaller fortresses, there were generally fewer soldiers and little diversity of troops, firstly due to the restricted space within the walls. Within the strongholds, the soldiers had a varied inventory available, comprising among other weaponry or domestic use objects. When not involved in the empire's conflicts, the soldiers carried out diverse activities like fortification maintenance, manufacture of various objects and weapons, gunpowder, aided tax and fee collection from the inhabitants of the nearby settlements or raiding enemy territories.

#### 2. The Ottoman fortresses of the Banat

#### 2.1 **Alibunar**<sup>117</sup>

*Current name*: Alibunar, district of Southern Banat, Voivodina, Serbia *Ottoman conquest date*: the 16<sup>th</sup> century (?) *Current condition*: destroyed

#### 2.2 **Varat**

Current name: Arad Municipality, Arad County Alternate name: Yeni-Varat<sup>118</sup> Attestation: 1324<sup>119</sup> Ottoman conquest date: 1552<sup>120</sup> Layout data: flat square shape, unknown surface area Current condition: destroyed, overlapped by modern and contemporary buildings Location: The Drăgășani quarters<sup>121</sup> (Pl. 7<sup>122</sup>) Mentions by foreign travellers:

The Arad *palanka* is built in wood with double walls filled with earth and an approximately 400 feet circumference. It was rebuilt in 1554, having been destroyed after its siege in 1552. The second known reconstruction occurred in 1658 when it was destroyed by a fire. It has two large wooden gates – the Lake gate facing Ineu and the Timișoara gate. Inside, near the Timișoara gate there is a single, very

<sup>&</sup>lt;sup>115</sup> Janissary strengths are reported only in the Ottoman fortification of Timișoara.

<sup>&</sup>lt;sup>116</sup> Ágoston 2011, 229.

<sup>&</sup>lt;sup>117</sup> Hegyi 2018 apud D. Akto 2019, 125.

<sup>&</sup>lt;sup>118</sup> Mehmet, Stoicescu *el al.* 1976, 650.

<sup>&</sup>lt;sup>119</sup> Niedermaier 2016, 289.

<sup>&</sup>lt;sup>120</sup> Ciure 2016.

<sup>&</sup>lt;sup>121</sup> Mărginean 2016, 214.

<sup>&</sup>lt;sup>122</sup> Illustration and positioning after Niedermaier 2016. The shape presented in the illustration here is likely later, post 1658 (?).

solid gated small palanka. The external fortress is encircled by a water-filled defensive ditch crossed by a bridge in front of the gate and a booth by its end, which likely served as customs or checkpoint. Köprülü Mehmed Pasha built Arad a mosque, a caravanserai, *medrese* (schools with cult places), guest houses and public utility buildings. The external fortress has a small bath and a long, narrow market<sup>123</sup>.

*Archaeological research:* we are not aware of any published archaeological excavations aimed at investigating the medieval fortification in the Arad Municipality.

Illustrations and mentions on cartographic documents: Plans published in the Studiul istoric de fundamentare privind zone construite protejate issued during the update of the General Urban Plan of Arad Municipality<sup>124</sup> Situations Plan von derkameral Stadt Alt Arad undnächst an... [S 12 – Div. XIX. – No. 117:4.] with the Magyar Nemzeti Levéltár Magyar Országos Levéltára call number C 128 Maros 1818. aug. 1./A<sup>125</sup>

#### 2.3 **Pofça**<sup>126</sup>

*Current name:* Bocșa city, Timiș county

Alternate name: The Cuiești fortress, Kuesd

Attestation: 1534<sup>127</sup>

Ottoman conquest date: 1552, 1595<sup>128</sup>

*Layout data*: rectangular

Current condition: in ruins

*Location:* located on the headland called "Buza Turcului", north of the current city (Pl. 16<sup>129</sup>) *Mentions by foreign travellers:* 

According to Silahdar Fândklie Mehemed Aga, who observed the Ottoman siege of 1695, the fortification of *Pofça* was a small, two-towered fortress located in a hardly accessible area<sup>130</sup>.

Archaeological research: 1986<sup>131</sup>

Military units: see Tab. 1

*Illustrations and mentions on cartographic documents:* a plan drafted by Luigi Fernando Marsigli in 1697<sup>132</sup>

#### 2.4 *Kevelaboş*<sup>133</sup>

Current name: Caransebeş Municipality, Caraş-Severin County

Alternate name: Cavaransebeş, Sebeş

Attestation: 1325<sup>134</sup>

Ottoman conquest date: 14 September 1658<sup>135</sup>

*Layout data*: rectangularly-shaped fortress with rounded corners, 6 bastions (of which 1 round and 5 rectangular) and an approximate surface area of 5.7 ha

Current condition: overlapped by private constructions (houses), destroyed

*Location*: in the area of streets Potocului, Romanilor, General Mihail Trapşa and Traian Doda, on the territory of Caransebeş Municipality (Pl. 10<sup>136</sup>)

Mentions by foreign travellers:

According to the description of the Italian traveler Giovan Andreea Gromo, who visited the

<sup>&</sup>lt;sup>123</sup> Evliya Çelebi *apud* Mehmet, Stoicescu *el al.* 1976, 504–505.

<sup>&</sup>lt;sup>124</sup> http://www.primariaarad.ro/html/ron/temp/PUG-2015/1.2.10.Studiu\_istoric\_de\_fundamentare\_privind\_zone\_construit-protejate.pdf accessed on 10.10.2020

<sup>&</sup>lt;sup>125</sup> https://maps.hungaricana.hu/en/MOLTerkeptar/6329/?list=eyJxdWVyeSI6ICJhcmFkIn0 accessed on 17.10.2020

 $<sup>^{\</sup>rm 126}~$  Name found în Evliya Çelebi's work.

<sup>&</sup>lt;sup>127</sup> Sebastyén 1984, 46.

<sup>&</sup>lt;sup>128</sup> Sebastyén 1984, 46.

<sup>&</sup>lt;sup>129</sup> Illustration and positioning after Sebastyén 1984

<sup>&</sup>lt;sup>130</sup> Guboglu 1974, 432.

<sup>&</sup>lt;sup>131</sup> Țeicu 2009, 81.

<sup>&</sup>lt;sup>132</sup> Sebastyén 1984, 43.

<sup>&</sup>lt;sup>133</sup> Mehmet, Stoicescu *el al.* 1976, 534.

<sup>&</sup>lt;sup>134</sup> Țeicu 2009, 108.

<sup>&</sup>lt;sup>135</sup> Feneșan 2017, 276.

<sup>&</sup>lt;sup>136</sup> Illustration and positioning after Țeicu 2009.

fortress of Caransebeş in 1566–1567 (when still not under the Ottoman rule). It was a fortress with walls made of friable stone and waterless ditches<sup>137</sup>.

The next description of the fortress belongs to István Szamosközy, a Hungarian historian and chronicler, who visits the fortification in 1603. He reports that Caransebeş is a somewhat circular city, with old, not very strong walls, without bastions<sup>138</sup>.

According to the Ottoman explorer Evliya Çelebi, the Caransebeş fortress (or Sebeş) was a sound construction located on the Timiş river bank, 400 feet in circumference. Its ditch was not deep and overtopped by two swing bridges in front of the two access gates inside the fortification. Inside there were approximately 300 Hungarian houses, a small mosque covered with shingles and a tall minaret. In the middle there was a powerful, five-cornered fortress, solid and difficult to conquer. It had a single gate, northwards, reached by climbing 30 stone steps. The inner fortification was full of warfare materials, Hungarian cannons and likely valuables. Çelebi mentions in Caransebeş an existing bazaar and fair, without yet locating these precisely<sup>139</sup>.

The last description known in the literature, published in the Monograph of the Caransebeş city in 1909 and dated to 1695 speaks of five bastions (described briefly) of earth on a wattle structure "built not long ago" (between one and two years). Despite these recent works, in some paragraphs below, engineer Malherbe mentions the fortification's poor condition, whose rotten wooden palisades started to fall apart. By the end of the text, Malherbe's notes are dated to "19<sup>8</sup>bre 1695<sup>140</sup>"<sup>141</sup>.

Archaeological research: 2016–2017<sup>142</sup> and 2018<sup>143</sup>

*Illustrations and mentions on cartographic documents:* A plan drafted by Luigi Fernando Marsigli in 1697<sup>144</sup>

#### 2.5 Krassóvár

Current name: Carașova village, Carașova commune, Caraș-Severin County Attestation: 1323<sup>145</sup> Ottoman conquest date: 1551<sup>146</sup> Layout data: polygonal, sized 29 × 32 meters<sup>147</sup> Current condition: in ruins Location: to the north-west of Carașova, at a point called "Cetatea turcului" Archaeological research: 1998, 2000, 2001<sup>148</sup>

#### 2.6 **Çenar**<sup>149</sup>

*Current name*: Cenad village, Cenad commune, Timiș county *Attestation*: 1030<sup>150</sup>

*Ottoman conquest date*: 1551 / 1598–99<sup>151</sup>

*Layout data*: rectangular with an approximate surface area of 8 ha *Current condition*: destroyed, topped by public and private buildings *Location*: central to the village, overlapped by the Roman-Catholic church and other buildings (Pl. 13<sup>152</sup>)

- <sup>141</sup> Ghidiu, Bălan 1909, 353–361.
- <sup>142</sup> Oța *el al*. 2019, 15.

<sup>144</sup> Sebastyén 1984, 41.

<sup>149</sup> Mehmet, Stoicescu *el al.* 1976, 452.

<sup>&</sup>lt;sup>137</sup> Holban *el al.* 1970, 329.

<sup>&</sup>lt;sup>138</sup> Sebastyén 1984, 43.

<sup>&</sup>lt;sup>139</sup> Mehmet, Stoicescu *el al.* 1976, 534–535.

<sup>&</sup>lt;sup>140</sup> 19 October 1695.

<sup>&</sup>lt;sup>143</sup> http://cronica.cimec.ro/detaliu.asp?k=6094&d=Caransebes-Caras-Severin-Strada-Potocului-nr-22-2018 accessed on 10.10.2020

<sup>&</sup>lt;sup>145</sup> Oța, Oța 2008, 187.

<sup>&</sup>lt;sup>146</sup> Likely conquered in 1551 by Kodja Mehmed Pasha, who in the same year conquered the fortresses of *Beş Kelek*, Felnac, Peciu.

<sup>&</sup>lt;sup>147</sup> Țeicu 2009, 80.

<sup>&</sup>lt;sup>148</sup> http://ran.cimec.ro/sel.asp?descript=carasova-carasova-caras-severin-cetatea-medievala-de-la-carasova-grad-cod-sit-ran-51813.01 accessed on 13.10.2020

<sup>&</sup>lt;sup>150</sup> Sebastyén 1984, 49; then was attested the fortress called Cenad.

<sup>&</sup>lt;sup>151</sup> Mehmet, Stoicescu *el al.* 1976, 646.

<sup>&</sup>lt;sup>152</sup> Located after Măruia 2011.

#### Mentions by foreign travellers:

According to Evliya Çelebi's reports, the Cenad fortress is located at a bowshot from the Mureş River. "*The large external town*" is a fortified settlement, surrounded by a wooden wall of thick logs. It has three solid gates, oriented to the north, west and east. Within the walls there are 500 stone houses covered with shingles, reed and thatch. There are found 12 prayer locations, of which three mosques, three *medrese*, three dervish monasteries, 4 schools and 300 small shops. Besides these, it had a bath and three inns. The water supply of this enclosure and those internal was made from the Mureş River<sup>153</sup>.

*The fortified town*, called by Evliya Çelebi *Cenad town* is a powerful *palanka* 1000 feet in circumference. The fortification wall is made of timber and battered earth and has a westward gate. Inside the fortification there are approximately 190 houses of various sizes covered with shingles or tiles and eight small shops. The streets in the fortified town (external fortress) are wood paved because of the harsh winters with much snowfall. The internal fortification is square-shaped, has hard walls and is 700 feet all around. Inside the fortress there are four mosques with minarets transformed from churches. The supplies and ammunition storage are also within the internal fortress. The entry gates, two in number, are double and iron made. Between the gates and the fortress ditch there is an underground dungeon and a brick-made tower<sup>154</sup>.

*Archaeological research*: 1970–1995, the single relevant for our research topic being those of 1995<sup>155</sup>. The subsequent investigations (between 1995 and 2013) remained regrettably unpublished.

Military units: see Tab. 2

*Illustrations and mentions on cartographic documents:* a miniature depicting the submission of the Cenad fortress in 1551<sup>156</sup>; a plan made by Luigi Fernando Marsigli in 1697<sup>157</sup>

#### 2.7 Yeçey

*Current name*: Cenei village, Cenei commune, Timiș county *Attestation*: 1370<sup>158</sup> *Ottoman conquest date*: 1551 (?) *Current condition*: destroyed *Mentions by foreign travellers*: Evliya Çelebi mentions the existence of the fortress<sup>159</sup>, west of Timișoara.

#### 2.8 **Vefraș**<sup>160</sup>

*Current name:* Chelmac village, Conop commune, Arad County *Alternate name: Vepries*(?)<sup>161</sup>

Attestation: 1615<sup>162</sup>

Ottoman conquest date: 1551–1552 (?)

Current condition: destroyed

*Location*: possibly north of the current village where ruins are reported on the second and third Habsburg surveys.

Mentions by the foreign travellers:

On the fortress of *Vefraş* (likely the Chelmac fortress, according to Çelebi's location), the Ottoman traveler Evliya Çelebi informs us there is stonework set on the bank towards the Radna of river Mureş. It has a *dizdar*, 70 soldiers and 300 houses inside<sup>163</sup>.

Archaeological research: 2004<sup>164</sup>

<sup>&</sup>lt;sup>153</sup> Mehmet, Stoicescu *el al*. 1976, 647–648.

<sup>&</sup>lt;sup>154</sup> Mehmet, Stoicescu *el al.* 1976, 647.

<sup>&</sup>lt;sup>155</sup> http://cronica.cimec.ro/detaliu.asp?k=316&d=Cenad-Timis-Cetatea-medievala-1995 accessed on 09.09.2020

<sup>&</sup>lt;sup>156</sup> Fehér 1976 apud Feneșan 2014, 431.

<sup>&</sup>lt;sup>157</sup> Sebastyén 1984, 47.

<sup>&</sup>lt;sup>158</sup> Pascu *el al.* 1977, 102; Paul, Stephen of Cenei's son is mentioned.

<sup>&</sup>lt;sup>159</sup> Mehmet, Stoicescu *el al.* 1976, 501.

<sup>&</sup>lt;sup>160</sup> Mentioned as *Vepries* in article two of the Karlowitz Peace Treaty, in 1699 *apud* Forțiu 2019, 3.

<sup>&</sup>lt;sup>161</sup> Forțiu 2016, 1

<sup>&</sup>lt;sup>162</sup> Sebastyén 1984, 49.

<sup>&</sup>lt;sup>163</sup> Mehmet, Stoicescu *el al.* 1976, 509.

<sup>&</sup>lt;sup>164</sup> Țeicu, Mărginean 2008.

*Illustrations and mentions on cartographic documents*: a plan drawn up by Luigi Fernando Marsigli in 1697<sup>165</sup>

#### 2.9 Şakvan

*Current name*: Ciacova city, Timiș County *Alternate name*: *Chaak*, *Csak*, *Csakowa*<sup>166</sup> *Attestation*: 1332–1337<sup>167</sup> *Ottoman conquest date*: 18 September 1551<sup>168</sup> *Layout data*: approximately 1.5 ha

*Current condition*: destroyed, covered with a consistent layer of debris and yellow clay in the modern and contemporary periods. The defensive tower has survived.

*Location*: in Cetății Square and the adjacent streets from the Ciacova city *Mentions by foreign travellers*:

In Wathay Ferenc's 1604–1605 work, the fifth poem shows a miniature depicting the Ciacova fortress. The fortification's defensive elements which the author figured are as follows: the defensive ditch, the wooden and battered earth palisade and the tower-house (the single standing today as well). Beside the tower emerge other nine buildings, two attached to the tower and another seven within the fortification. Amongst the latter, three draw our attention in particular: a building that seems to have two floors (a ground floor made of differently figured material, possibly stone) and a chimney, covered with shingles or ceramic tiles. Another interesting building is that in the shape of an apse, possibly a small mosque within the fortress that might have been used by the soldiers garrisoned there, while a third, of which only the roof is visible, draws attention precisely by its depiction as being made of shingles, the remaining buildings being covered with straws, except the previously mentioned two-floor building<sup>169</sup>.

The 17<sup>th</sup> century illustration renders a swing bridge over the defensive ditch composed of two parts – one fixed, made of wooden posts knocked in the ground supporting the bridge structure most likely made of thick planks and another part, mobile, connecting the first passageway to the fortress interior. The latter seems to have been made still of wooden planks yet much more carefully worked – on the drawing these are figured straight and in-between on three symmetrically set lines are noticeable objects that seem to be nailed to increase resistance. The swinging side of the bridge is most likely connected with a light, thick rope part of the swinging mechanism. This rope seems to be intact only on the right side, with the left being broken and fallen into the defensive ditch.

The gate is incorporated into the palisade and is supported by a wooden beams structure. Two of these beams are knocked into the ground, while a third is set across those preceding. In the lower part the two vertical beams there are supporting posts struck obliquely into the ground, most likely to take over the supported weight. In the event of danger, when the mobile bridge was elevated, it practically covered the gate and closed the fortress<sup>170</sup>.

In his journey through Banat, Çelebi mentions a fortress named *Şakvan* without yet providing a secure location or description<sup>171</sup>.

*Archaeological research:* five archaeological excavation campaigns between 2000–2018<sup>172</sup> *Military units:* see Tab. 3

*Illustrations and mentions on cartographic documents* Tabula Hungarie – mentioned as Czokoan: miniature made by Wathay Ferenc<sup>173</sup>; map of Ciacova district<sup>174</sup>; the first, second and third Habsburg surveys<sup>175</sup> (partially)

<sup>&</sup>lt;sup>165</sup> Sebastyén 1984, 47.

<sup>&</sup>lt;sup>166</sup> Merschdorf 2016, 83–86

 $<sup>^{\</sup>rm 167}~$  In the same document that records the fortress of Lugoj.

<sup>&</sup>lt;sup>168</sup> Secară 1971, 164.

<sup>&</sup>lt;sup>169</sup> Wathay 1604, 28/1.

<sup>&</sup>lt;sup>170</sup> Wathay 1604, 28/1.

<sup>&</sup>lt;sup>171</sup> Mehmet, Stoicescu *el al*. 1976, 502.

<sup>&</sup>lt;sup>172</sup> Ene *el al.* 2018, 71–72.

<sup>&</sup>lt;sup>173</sup> Wathay 1604, 28/1.

<sup>&</sup>lt;sup>174</sup> Mappa von dem Csakowaer District, in the collection HM Hadtörténeti Intézet és Múzeum, call number B IX a 618, https:// maps.hungaricana.hu/en/HTITerkeptar/527/?list=eyJxdWVyeSI6ICJDc2Frb3dhZXIifQ accessed on 14.10.2020

 $<sup>^{175}\;</sup>$  http://mapire.eu accessed on 06.08.2020

#### 2.10 Duna Varad

Current name: Coronini village, Coronini commune, Caraș-Severin County Alternate name: Saint Ladislau, Pescari, Moldova Attestation: 1430<sup>176</sup> Ottoman conquest date: the 15<sup>th</sup> century (?) Layout data: ellipse-shaped construction, sized 190 × 100 meters<sup>177</sup> Current condition: in ruins Location: south of Coronini village, by the banks of the Danube. Mentions by foreign travellers:

According to explorer Evliya Çelebi, the fortress was built on a cliff by the bank of the Danube, which could be reached with difficulty. After Mehmed Paşa had conquered the Golumbac fortress (in today's Serbia) he used cannons to besiege it for a long time, the Moldova garrison eventually capitulating<sup>178</sup>. The text also argues that the traveller did not visit the fortress in person owing to the difficult travel conditions.

*Archaeological research*: a few excavations campaigns between 1970–1975<sup>179</sup> and, according to a document issued by the National Commission of Archaeology on 15.11.2019, a rescue excavation conducted by the Museum of Highland Banat in the same year<sup>180</sup>.

Military units: see Tab. 4

#### 2.11 **Daubadad**<sup>181</sup>

Ottoman conquest date: 1551–1552 (?) Military units: see Tab. 6

#### 2.12 **Danta**

*Current name*: Denta village, Denta commune, Timiș County *Attestation*: 1322<sup>182</sup> *Ottoman conquest date*: 1551 (?) *Current condition*: destroyed *Military units*: see Tab. 7

#### 2.13 **Dezna**

Ottoman conquest date: the 17<sup>th</sup> century (?) Layout data: rectangular Current condition: destroyed Mentions by foreign travellers:

This fortress was conquered by Köprülü Mehmed Pasha who quartered there, according to E. Çelebi, 700 soldiers. The fortification is related to the Sebeş (Caransebeş) sandjak in the Timişoara Eyalet and is flourishing, in four corners, located between woodlands and mountains, on the Timiş river bank. In the fortress there was a *dizdar* and common soldiers. Çelebi reports that the fortification has neither a bazaar nor a marketplace. In the work *Călători străini despre Țările Române*, tome 6 this fortification is identified as the fortress of Desna, in Arad County, which is impossible since Çelebi says it lay on the Timiş river bank, in the Sebeş district<sup>183</sup>.

#### 2.14 Drenkova

*Current name*: Drencova village, Berzasca commune, Caraș-Severin County *Attestation*: after 1419<sup>184</sup>

<sup>&</sup>lt;sup>176</sup> Țeicu 2009, 114.

<sup>&</sup>lt;sup>177</sup> Țeicu 2009, 114.

<sup>&</sup>lt;sup>178</sup> Mehmet, Stoicescu *el al.* 1976, 692.

<sup>&</sup>lt;sup>179</sup> Matei, Uzum 1973, 141–155.

<sup>&</sup>lt;sup>180</sup> http://www.cultura.ro/sites/default/files/inline-files/Ordinea%20de%20zi%20CNA%20din%2015%2011%202019\_2.pdf accessed on 14.10.2020

<sup>&</sup>lt;sup>181</sup> Hegyi 2007, 1421.

<sup>&</sup>lt;sup>182</sup> Hațegan 2013, 125.

<sup>&</sup>lt;sup>183</sup> Mehmet, Stoicescu *el al.* 1976, 535.

<sup>&</sup>lt;sup>184</sup> Engel 1996, 204.

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Ottoman conquest date: the  $16^{\text{th}}-17^{\text{th}}$  century (?) Layout data: rectangular, sized  $23 \times 21$  meters<sup>185</sup> Current condition: destroyed Location: on the Danube bank Military units: see Tab. 8

#### 2.15 Besenyő

*Current name*: Dudeștii-Vechi village, Dudeștii Vechi commune, Timiș County *Alternate name*: Beșenova *Ottoman conquest date*: 1551<sup>186</sup> *Current condition*: destroyed *Location*: unidentified in the field – likely overlapped by the current village *Mentions by foreign travellers*:

The fortress, conquered by Kodja Mehmed Pasha, is according to Evliya Çelebi, a small *palanka*, square in shape, located on the bank of a marshy lake. It measures approximately 1000 feet in circumference. In the fortress, there is a *dizdar* and 80 soldiers as well as a *naib* of the *kadi* in Cenad. Within the fortress walls there is a mosque made out of a church, two *mecete*, one *medrese*, one *tekke*, two schools, a bath, a caravanserai, eight small shops and two inns covered with planks<sup>187</sup>.

Archaeological research: we are not aware of any published archaeological excavations aimed at investigating the medieval fortress at Dudeștii Vechi.

Military units: see Tab. 9

#### 2.16 **Façat**

Current name: Făget city, Timiș County

Alternate name: Kaçat (erroneous)<sup>188</sup>

Attestation: 1548189

Ottoman conquest date: the 16<sup>th</sup> century (?)

Layout data: square-shaped with two rounded bastions, approximately 600m<sup>2</sup>

Current condition: in ruins / partially restored

*Location*: the ruins of the fortification lie to the north of the Făget city, at approximately 200 m north-west the cemetery (Pl. 12<sup>190</sup>)

*Mentions by foreign travellers:* 

The fortress is mentioned in 1529–1530 by chronicler Mustafa Gelalzade, who travelled in these parts after the siege of Mohács<sup>191</sup>.

About the Făget fortification speaks in more detail Evliya Çelebi, who visited the area in mid-17<sup>th</sup> century. He reports that the fortification was built by a woman called Tilen – likely Stefan Bekes's spouse<sup>192</sup>. In terms of its layout, Çelebi argues that the fortress of Făget is square-shaped, pleasant, covered entirely with shingles and strong. Its gate lay westwards, oriented towards the plain. Regarding its military units, Çelebi mentions a *dizdar* and 300 soldiers as well as enough warfare material. The same Ottoman traveller informs us that the fortification had no marketplace or bazaar and is just a *serhat tower*<sup>193</sup>.

Archaeological research: 1983–1992<sup>194</sup>, 1994<sup>195</sup>, 1995<sup>196</sup>, 1998<sup>197</sup>

Military units: see Tab. 10

<sup>&</sup>lt;sup>185</sup> Țeicu 2009, 81.

<sup>&</sup>lt;sup>186</sup> Conquered likely in 1551 by Kodja Mehmed Pasha, who in the same year also conquered the fortresses of *Beş Kelek*, Felnac, Peciu.

<sup>&</sup>lt;sup>187</sup> Mehmet, Stoicescu *el al.* 1976, 648.

<sup>&</sup>lt;sup>188</sup> According to Çelebi.

<sup>&</sup>lt;sup>189</sup> Căliman 2018, 23.

<sup>&</sup>lt;sup>190</sup> Plan after Măruia 2011.

<sup>&</sup>lt;sup>191</sup> Guboglu, Mehmet 1966, 277.

 $<sup>^{\</sup>rm 192}~$  Although the fortress was still standing in 1602, when Bekes's presence is recorded there.

<sup>&</sup>lt;sup>193</sup> Mehmet, Stoicescu *el al*. 1976, 503.

 $<sup>^{194}\</sup>$  http://cronica.cimec.ro/detaliu.asp?k=821 accessed on 07.09.2020.

 $<sup>^{195}\,</sup>$  http://cronica.cimec.ro/detaliu.asp?k=17 accessed on 07.09.2020.

<sup>&</sup>lt;sup>196</sup> http://cronica.cimec.ro/detaliu.asp?k=317 accessed on 07.09.2020.

<sup>&</sup>lt;sup>197</sup> http://cronica.cimec.ro/detaliu.asp?k=1605 accessed on 07.09.2020.

*Illustrations and mentions on cartographic documents*: A plan made by Luigi Fernando Marsigli in 1697<sup>198</sup>

#### 2.17 Felnak

*Current name*: Felnac village, Felnac commune, Arad County *Attestation*: 1330<sup>199</sup> *Ottoman conquest date*: 1551 by Kodja Mehmed Pasha<sup>200</sup> *Layout data*: uncertain layout, possibly rectangular *Current condition*: destroyed, covered with modern constructions *Location*: north of the village, in a built area (houses)<sup>201</sup> *Mentions by foreign travellers*:

The first traveller to describe the fortress of Felnac (by making a miniature) is Wathay Ferenc, who is taken prisoner nearby this fortification. Wathay renders a brick fortress (which suits Çelebi's statements) in four corners, each with a tower by its extremity. Inside the fortress are visible four buildings, however because of how they were illustrated, it is impossible to say what role they fulfilled. Nevertheless, the mosque mentioned by Çelebi does not seem to be visible. Another common point is the height reported by Çelebi and visible on the 1603–1604 miniature<sup>202</sup> as well.

E. Çelebi argues that the Felnac fortress was built by a figure whose name was identical<sup>203</sup>. The fortification lies on the Mureş River bank, on a mound, entirely built in brick. In terms of layout, it is approximately 400 feet in circumference and is single-gated southwards. Within are five houses, five imperial cannons as well as a small mosque. It is surrounded by a defensive ditch crossed by a mobile bridge pulled by chains, in front of a booth (likely a check or customs point?). About the city in the fortress's proximity, we find it is not surrounded by *palanka* and is composed of approximately 100 board-covered houses divided by courtyards and gardens, 10 small shops and many vineyards<sup>204</sup>.

*Military units*: see Tab. 11 *Illustrations and mentions on cartographic documents*: A miniature by Wathay Ferenc<sup>205</sup>

#### 2.18 Peștera Veterani

Current name: Grota Veterani, by the Danube bank, south Dubova

Alternate name: possibly Inlik, Peth

Attestation: 1430<sup>206</sup>

Ottoman conquest date: the 15<sup>th</sup> century (?)

Current condition: in ruin

*Location*: nearby the Veterani Cave, by the Danube bank, at an approximately 70 meters elevation from the water surface

Mentions by foreign travellers:

When E. Çelebi visits the geographical area of the Banat, the *Inlik* fortress, located on a cliff that "*rises to the skies*" was no longer inhabited, with only a few gunslingers who monitored the passage of vessels where "*the Danube is inconceivably narrow*"<sup>207</sup>.

*Archaeological research:* archaeological excavations were performed in the '60s–'70s of the past century, yet "*did not lead to the expected clarifications*"<sup>208</sup>.

<sup>200</sup> According to Evliya Çelebi

 $^{\rm 203}~$  Which, seemingly, did not exist in fact.

<sup>&</sup>lt;sup>198</sup> Sebastyén 1984, 46.

<sup>&</sup>lt;sup>199</sup> Ionașcu *el al.* 1953, 313.

<sup>&</sup>lt;sup>201</sup> Forțiu 2016, 928.

<sup>&</sup>lt;sup>202</sup> Wathay 1604, 34/1.

<sup>&</sup>lt;sup>204</sup> Mehmet, Stoicescu *el al*. 1976, 503–504.

<sup>&</sup>lt;sup>205</sup> Ferenc 1604, 34/1.

<sup>&</sup>lt;sup>206</sup> Țeicu 2009, 105.

<sup>&</sup>lt;sup>207</sup> Mehmet, Stoicescu *el al.* 1976, 694.

<sup>&</sup>lt;sup>208</sup> Boroneanț 2000, 89.

#### 2.19 **Haram**

*Haram-1 atec* or Haramul Vechi is a fortress which controlled an old ford of the Danube. It was occupied in the late 15<sup>th</sup> century, before 1483. After 1552, when the Ottomans took over the control of Timişoara, its importance diminished<sup>209</sup>.

Current name: Banatska Palanka, Southern Banat, Vojvodina, Serbia Alternate name: Karasovar<sup>210</sup>, Stara Palanka Attestation: 1177<sup>211</sup> Ottoman conquest date: by the late 15<sup>th</sup> century (?) Layout data: rectangular shapes with 92 × 92 meter sides<sup>212</sup> Current condition: destroyed Location: The Sapaja island (on the Danube), partially destroyed<sup>213</sup> Archaeological research: 1982–1983<sup>214</sup> Military units: see Tab. 12

#### 2.20 **Ianova**

*Current name*: Ianova village, Remetea Mare commune, Timiș county *Alternate name: Temesjenő Attestation*: 1333–1335<sup>215</sup> *Ottoman conquest date*: 1551–1552 (?) *Current condition*: destroyed

*Location*: The Ianova fortification known as "Cetatea Turcească" was identified south of the current settlement of Ianova (Timiș county) within project eGISpat in 2006 when a survey of the area was performed. The collected archaeological materials<sup>216</sup> exhibit similar features to settlements known in the literature as having been used by the Ottomans in the 16<sup>th</sup>–18<sup>th</sup> century.

#### 2.21 **Ictar**

In the current state of research, the single information on the Ictar-Budinț fortress is provided by the Ottoman pay registers recording troops there between 1621–1622<sup>217</sup>. This fortification was likely a temporary outpost of the Ottoman troops.

*Current name*: Ictar-Budinț village, Topolovățu-Mare commune, Timiș county *Attestation*: 1364<sup>218</sup> *Date of the Ottoman conquest*: 1551–1552 (?) *Current condition*: destroyed *Military units*: see Tab. 13

2.22 **Zidovar**<sup>219</sup>

*Current name*: Jdioara village, Criciova commune, Timiș County *Alternate name: Jedvar (*?) *Attestation*: 1320<sup>220</sup> *Ottoman conquest date*: 1658<sup>221</sup> (?)

*Layout data*: rectangular shape with rounded corners, provided with two square towers on the west and southeast sides. Its built area measures approximately 1000 m<sup>2</sup>.

<sup>216</sup> Măruia *el al*. 2011, 237–245.

<sup>&</sup>lt;sup>209</sup> Feneșan 2017, 127.

<sup>&</sup>lt;sup>210</sup> Often mistaken in the academic literature with the fortress of Carașova, Caraș-Severin county

<sup>&</sup>lt;sup>211</sup> Țeicu 2009, 84.

<sup>&</sup>lt;sup>212</sup> Țeicu 2009, 84.

 $<sup>^{213}</sup>$   $\,$  Information inferred subsequent to the examination of the  $18^{\rm th}$  century map and current satellite images.

<sup>&</sup>lt;sup>214</sup> Dimitrijević 1984, 105.

<sup>&</sup>lt;sup>215</sup> Țeicu 2007, 131.

 $<sup>^{\</sup>scriptscriptstyle 217}~$  See Tab. 15.

<sup>&</sup>lt;sup>218</sup> Pascu *el al.* 1985, 342.

<sup>&</sup>lt;sup>219</sup> Medeleț 1998, 619.

<sup>&</sup>lt;sup>220</sup> Țeicu 2009, 87.

<sup>&</sup>lt;sup>221</sup> Oțetea *el al*. 1964, 35.

*Current condition*: in ruin, included in the touristic circuit

*Location*: located 1.2 km north-east from the Holy Apostles church in the Jdioara commune, Timiş county, on a high plateau with steep slopes and an access road<sup>222</sup> only westwards (Pl.  $15^{223}$ )

Mentions by foreign travellers:

In the first part of *Seyahatnâmesi*, Evliya Çelebi states that the fortress of *Jedvar*<sup>224</sup> is a square wooden *palanka* located in the highlands by the Timiș river bank and since it was a new conquest, had no public buildings<sup>225</sup>. Later, Çelebi speaks of the *Zedvar* fortification that belongs to the prince of Transylvania, John Kemény and argues it is a beautiful stone fortress, has three bastions and lies on a cliff in the mountains and amid woodlands. River *Zedvar* passes by its vicinity (in fact, river Nădrag) which, running eastwards flows into the *Someș* river<sup>226</sup> (Someș), in fact Timiș.

We believe that the second description is more illustrative of what the fortification of Jdioara is concerned, as it is validated by several aspects known at present: the fortress lies on a headland at 290 meters elevation, is stone built and has two archaeologically recorded bastions (towers), the surrounding land being covered by woodlands, while river Nădrag flows nearby. A third tower, mentioned by the Ottoman traveller likely lay above the gate.

Archaeological research: 1930; 1973<sup>227</sup>, 1977<sup>228</sup>

*Illustrations and mentions on cartographic documents*: A plan made by Luigi Fernando Marsigli in 1697<sup>229</sup>

#### 2.23 Csonbol<sup>230</sup>

*Current name*: Jimbolia city, Timiș County *Attestation*: 1332–1337 *Ottoman conquest date*: 1551 (?) *Current condition*: destroyed *Military units*: see Tab. 14

#### 2.24 *Kimin*<sup>231</sup>

*Attestation:* Not identified in the literature, mentioned only in the context of the *Karlowitz* Peace Treaty, 1699

*Current condition:* destroyed *Location:* in the vicinity of Lugoj Municipality (?)

#### 2.25 Köfin

The *Köfin* fortress is located on a former ford of the Danube, which it defended. It was built by the Ottomans on top of a Roman *castellum*. The former fortress existing there was occupied in the same period as the Haram fortification, namely by the late 15<sup>th</sup> century, before 1483<sup>232</sup>.

Current name: Kovin, Southern Banat district, Vojvodina, Serbia

Alternate name: Kufin Attestation:  $1185^{233}$ Ottoman conquest date: late  $15^{\text{th}}$  century (?) Layout data: rectangular shaped, sized  $150 \times 130$  meters<sup>234</sup> Current condition: destroyed

<sup>229</sup> Sebastyén 1984, 44.

<sup>231</sup> Forțiu 2019, 3.

<sup>234</sup> Țeicu 2009, 101.

 $<sup>^{\</sup>rm 222}~$  Used today for touristic purposes.

<sup>&</sup>lt;sup>223</sup> Plan after Măruia 2011.

<sup>&</sup>lt;sup>224</sup> Name interpreted by N. Stoicescu as Jdioara apud. Mehmet, Stoicescu *el al*. 1976, 534.

<sup>&</sup>lt;sup>225</sup> Mehmet, Stoicescu *el al*. 1976, 534.

<sup>&</sup>lt;sup>226</sup> Mehmet, Stoicescu *el al*. 1976, 541.

<sup>&</sup>lt;sup>227</sup> Bejan 1975, 157–62.

<sup>&</sup>lt;sup>228</sup> Bejan 1978.

<sup>&</sup>lt;sup>230</sup> Hegyi 2007, 1404.

<sup>&</sup>lt;sup>232</sup> Feneșan 2017, 127.

<sup>&</sup>lt;sup>233</sup> Țeicu 2009, 101. Year is erroneously edited 1885.

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*Location*: on the city territory (Pl. 2<sup>235</sup>), overlapped by private buildings<sup>236</sup> *Archaeological research*: 1968, 1986<sup>237</sup> *Military units*: see Tab. 5

#### 2.26 Küciük-Kanizse<sup>238</sup>

Alternate name: Klein Kanisa, Kis Kanizsa, Canija Mică<sup>239</sup>

*Attestation*: Not identified in the literature, mentioned only in the context of the *Karlowitz* Peace Treaty, 1699

*Current condition*: destroyed *Location*: on the Banat bank of the Tisza River, north of Novi Kneževac

#### 2.27 Küçük-Sadj

Current name: Sacoșu-Turcesc village, Sacoșu-Turcesc commune, Timiș county<sup>240</sup> Alternate name: Küciüksaci Attestation: 1321<sup>241</sup> Ottoman conquest date: 1551–1552 (?) Current condition: destroyed

*Mentions by foreign travellers*: The fortress is mentioned in 1529–1530 by chronicler Mustafa Gelalzade, who travelled in these parts after the siege of Mohács<sup>242</sup>. He calls it *Küciüksaci*, a very similar name to what Evliya Çelebi gave, *Küçük-Sadj*<sup>243</sup>.

#### 2.28 *Puva*<sup>244</sup>

Current name: Lipova city, Arad County

*Alternate name*: Pava

Attestation: 1344<sup>245</sup>

Ottoman conquest date: 1551<sup>246</sup> / 1595<sup>247</sup>

*Layout name*: pentagonal shape, with an approximate area of 7<sup>ha</sup>

Current condition: destroyed, topped by public and private buildings

*Location*: south-west the center of Lipova city, in the area of streets Timișoara, Cuza Vodă, Vasile Alecsandri etc. (Pl. 9<sup>248</sup>)

*Mentions by foreign travellers:* 

On the Lipova fortress, traveller Evliya Çelebi says its name comes from the Serbian language, where *lipa* means beautiful<sup>249</sup>. The Lipova fortress is a beautiful stone fortress, pentagonal in shape, according to the same Ottoman traveller. Its circumference is 10.000 feet. Similarly to Timișoara, the Lipova fortress has several gates: 1. The Bridge Gate

- 2. The Azaps Gate
- 3. The Water Gate
- 4. The Battal Gate
- 5. The Timișoara Gate
- 6. The Martalogi Gate

<sup>238</sup> Forțiu 2019, 3.

- <sup>242</sup> Guboglu, Mehmet 1966, 277.
  <sup>243</sup> Mehmet, Stoicescu *el al.* 1976, 502.
- <sup>244</sup> Mehmet, Stoicescu *el al*. 1976, 452.
- <sup>245</sup> Niedermaier 2016, 369.
- <sup>246</sup> See section IX.

<sup>248</sup> Illustrations and positioning after Niedermaier 2016.

<sup>&</sup>lt;sup>235</sup> Illustrations and positioning after Țeicu 2009.

<sup>&</sup>lt;sup>236</sup> Țeicu 2009, 101.

<sup>&</sup>lt;sup>237</sup> Iambor 2005, 67–69.

<sup>&</sup>lt;sup>239</sup> Forțiu 2019, 3.

<sup>&</sup>lt;sup>240</sup> Uncertain data.

<sup>&</sup>lt;sup>241</sup> Hațegan 2013, 321.

<sup>&</sup>lt;sup>247</sup> Feneşan 2017, 269.

 $<sup>^{\</sup>rm 249}~$  The fortress's name originates in fact from the Slavic language and means linden tree.

#### 7. The *Sarampo* Gate<sup>250</sup>

There are five mosques in the fortress and one small mosque. There are also 1500 houses with shingle roofs, related gardens and vines, 200 shops and wood-planked streets. Regarding water supply, E. Çelebi mentions that the city has no fountains, its inhabitants likely using the Mureş River waters<sup>251</sup>.

In the southern part of the large enclosure lies the middle fortress, pentagonal in shape with sound bastions and a circumference of approximately 5000 feet. It has a double-filling wall and ceiling and is approximately 50 feet high. It is entirely made of wood and has a defensive ditch where the Mureș River flows. Over the defensive ditch encircling the five-bastion fortress,<sup>252</sup> there is a mobile bridge in front of one of the gates, on the eastern side. In this part of the fortification there are 150 houses for soldiers<sup>253</sup>.

The last fortified enclosure from Lipova, called by Çelebi "the beautiful citadel" is a stone fortification with two defensive towers. The fortress ditch is filled with Mureş River waters and is crossed by a bridge towards the single entrance into the enclosure. Inside, there is a prison from which prisoners are removed in daytime for labor. This part of the fortification is dwelled only by the *dizdar*, the imam and muezzins, as there are stored valuables and warfare supplies. Regarding the town inhabitants, Evliya Çelebi reports they make belts and speak Hungarian and Bosnian<sup>254</sup>.

Archaeological research: we are not aware of any published archaeological excavations.

*Military units*: see Tab. 15

*Illustrations and mentions on cartographic documents*: a miniature rendering the occupation of the Lipova fortress in 1551<sup>255</sup>; a plan made by Luigi Fernando Marsigli in 1697<sup>256</sup>

#### 2.29 Lubkova

*Current name*: Liubcova village, Berzeasca commune, Timiș county *Ottoman conquest date*: built by the Ottomans, likely in the 16<sup>th</sup> century (?) *Current condition*: destroyed

Mentions by foreign travellers:

From data supplied by Evliya Çelebi, it results that the Liubcova fortification was built by the Ottomans. Inside the fortress, by the late 17<sup>th</sup> century there were 60 soldiers. The fortification located nearby the Danube is a small, four-cornered *palanka* situated on a wide meadow, 200 feet from the river. In it there are five houses. It is surrounded by a double defensive ditch and guarded by five towers. In front of the gate, in the *extra-muros* space there is a roofed mosque and plank minaret<sup>257</sup>.

*Archaeological research*: Archaeological excavations were conducted there during 1960–1980, however the medieval materials were either unidentified or disregarded when excavations results were published<sup>258</sup>.

Military units: see Tab. 16

#### 2.30 *Lugoş*

*Current name*: Lugoj Municipality, Timiș County *Attestation*: 1334<sup>259</sup>

Ottoman conquest date: 14 September 1658<sup>260</sup>

Layout data: flat pentagonal shape with an approximate area of 3.5 ha.

Current condition: strongly affected by modern and contemporary constructions

*Location*: destroyed, partially topped by buildings in the "Constantin Drăgan" University area, in the middle of the city (Pl. 14<sup>261</sup>)

<sup>&</sup>lt;sup>250</sup> *Şarampa* means ditch in Turkish.

<sup>&</sup>lt;sup>251</sup> Mehmet, Stoicescu *el al.* 1976, 505–507.

 $<sup>^{\</sup>rm 252}~$  On which are mounted 15 tower siege cannons.

<sup>&</sup>lt;sup>253</sup> Mehmet, Stoicescu *el al*. 1976, 507.

<sup>&</sup>lt;sup>254</sup> Mehmet, Stoicescu *el al*. 1976, 507–508.

<sup>&</sup>lt;sup>255</sup> Fehér 1976 apud Feneşan 2014, 432.

<sup>&</sup>lt;sup>256</sup> Sebastyén 1984, 45.

<sup>&</sup>lt;sup>257</sup> Mehmet, Stoicescu *el al*. 1976, 692–693.

<sup>&</sup>lt;sup>258</sup> http://arheologie.ulbsibiu.ro/publicatii/bibliotheca/arheologie/istorie/l.htm accessed on 22.09.2020.

<sup>&</sup>lt;sup>259</sup> Sebastyén 1984, 44.

<sup>&</sup>lt;sup>260</sup> Feneșan 2017, 276.

<sup>&</sup>lt;sup>261</sup> Illustration and positioning after Sebastyén 1984.

#### Illustrations and mentions on cartographic documents:

In 1603, István Szamosközy argues about the Lugoj fortification that the town was surrounded by a poor defensive ditch, the fortress being defended by ca. 12 soldiers<sup>262</sup>.

On the fortress of Lugoj, Evliya Çelebi wrote by mid–17<sup>th</sup> century that it was a timber-and-earth fortification, square, set in the plain on the bank of Timiș river, its ditches being filled with river water. The fortress has a single-entry gate in front of the mobile bridge. The bridge was pulled each night, says the said author<sup>263</sup>. Inside the fortress there are 300 houses covered with reeds and planks. Since it was a relatively new conquest, the Muslims did not build mosques, caravanserais, baths or shops. The internal citadel was also square, built-in stone with a related defensive ditch. The access gate inside the internal fortification was in wood and oriented eastwards, with a mobile bridge<sup>264</sup> in front of it as well.

Archaeological research: 1987–1993<sup>265</sup>

*Illustrations and mentions on cartographic documents*: A plan made by Luigi Fernando Marsigli in 1697<sup>266</sup>.

#### 2.31 Marçina

Current name: Margina village, Margina commune, Timiș county

Attestation: 1439<sup>267</sup>

*Ottoman conquest date*: 1552<sup>268</sup>

Current condition: destroyed

*Location*: likely east of the current city<sup>269</sup>, parallel with the road running from Margina to Coşava. *Mentions by foreign travellers*:

The fortress is mentioned in 1529–1530 by chronicler Mustafa Gelalzade, who travelled in these parts after the siege of Mohács<sup>270</sup>. In 1660 it is mentioned by Evliya Çelebi as *Marçina*<sup>271</sup>.

*Archaeological research*: A 1999 archaeological sondage did not identify elements evidencing an existing fortification on the eastern side of the current village<sup>272</sup>.

#### 2.32 Moşdar

*Current name*: Mănăștiur village, Mănăștiur commune, Timiș County *Attestation*: 1505<sup>273</sup>

Ottoman conquest date: 1552 (?)

Layout data: a circular enclosure with an approximate area of 1 ha

*Current condition*: destroyed

*Location*: to the north-east of the city hall of Mănăștiur city, at the point called "La mănăstire". This is likely the fortified church on whose location were identified archaeological materials datable to the 15<sup>th</sup>-18<sup>th</sup> century (Pl. 5<sup>274</sup>)

*Mentions by foreign travellers*: The fortress is mentioned by the Ottoman traveller Evliya Çelebi as *Moşdar*<sup>275</sup>.

*Archaeological research*: The archaeological excavations conducted between 1979–1986 yielded only a fortified church, likely the one which E. Çelebi identified as a fortress<sup>276</sup>.

<sup>&</sup>lt;sup>262</sup> Sebastyén 1984, 45.

<sup>&</sup>lt;sup>263</sup> Mehmet, Stoicescu *el al.* 1976, 533.

<sup>&</sup>lt;sup>264</sup> Mehmet, Stoicescu *el al*. 1976, 533–534.

<sup>&</sup>lt;sup>265</sup> http://cronica.cimec.ro/detaliu.asp?k=150&d=Lugoj-Timis-Cetatea-Veche-1994 accessed on 03.07.2020.

<sup>&</sup>lt;sup>266</sup> Sebastyén 1984, 42.

<sup>&</sup>lt;sup>267</sup> Păcurar *el al*. 2017, 58.

<sup>&</sup>lt;sup>268</sup> Păcurar *el al*. 2017, 27.

<sup>&</sup>lt;sup>269</sup> Măruia *el al*. 2011, 261.

<sup>&</sup>lt;sup>270</sup> Guboglu, Mehmet 1966, 277.

<sup>&</sup>lt;sup>271</sup> Mehmet, Stoicescu *el al*. 1976, 502.

<sup>&</sup>lt;sup>272</sup> L. Măruia *el al*. 2011, 261

<sup>&</sup>lt;sup>273</sup> Hațegan 2013, 247.

<sup>&</sup>lt;sup>274</sup> Plan after Măruia 2011

<sup>&</sup>lt;sup>275</sup> Mehmet, Stoicescu *el al*. 1976, 502.

<sup>&</sup>lt;sup>276</sup> Țeicu 2007, 78.

#### 2.33 Mehadia

Current name: Mehadia village, Mehadia commune, Caraș-Severin County Attestation: 1323<sup>277</sup> Ottoman conquest date: 1523 (?) Current condition: in ruin Location: at 1 km north-east the current settlement (Pl. 4<sup>278</sup>) Mentions by foreign travellers:

The Italian peregrine Giovan Andreea Gromo, who travelled in Banat in 1566–1567, describes the fortress of Mehadia as a strong castle, well defended, sitting on a cliff. The fortress is according to him well supplied with foodstuffs and warfare materials. About the surrounding settlement, he argues that *"nothing is plentiful"*, there is no wine, while the bread is almost inexistent<sup>279</sup>.

Military units: see Tab. 17

*Illustrations and mentions on cartographic documents*: a plan<sup>280</sup> made by Luigi Fernando Marsigli in 1697<sup>281</sup>.

#### 2.34 **Pece**

*Current name*: Novi Bečej, Banatul Central district, Voivodina, Serbia *Attestation*: 1315<sup>282</sup>

Ottoman conquest date: 19 September 1551<sup>283</sup>

*Layout data*: square in shape, four-cornered, with a defensive ditch only on the north-north-west side and an approximate surface area of 5 ha.

Current condition: in ruin, partially covered by the course of the Tisza

*Location*: in the vicinity of the Tisza River course, on the territory of Novi Bečej city<sup>284</sup> (Pl. 8<sup>285</sup>) *Mentions by foreign travellers*:

About the fortress at *Pece* Evliya Çelebi argues it was conquered by Mehmed Paşa in seven days, in Hijri year 958<sup>286</sup>, it was rebuilt and provided with many troops<sup>287</sup>. We believe that M. Guboglu erroneously identified *Pece* as Becei<sup>288</sup>, Timiş County. In the support of this argument, we mention the lack of bibliographical references of a Becei fortress in 1552–1716 as well as the large number of units reported by Çelebi: approximately 600 soldiers (recorded by registers) in 1552<sup>289</sup>.

*Archaeological research*: unpublished<sup>290</sup>

Military units: see Tab. 18

*Illustrations and mentions on cartographic documents*: an Ottoman miniature depicting the siege of the Bečej fortress in 1551<sup>291</sup>; the plans of engineer Johan Kristijan de Kolet drawn up by early 1700, prior to the fortress's demolishing<sup>292</sup>.

#### 2.35 **Irșova**<sup>293</sup>

Current name: Orșova Municipality, Mehedinți County

<sup>283</sup> Feneșan 2017, 131.

<sup>&</sup>lt;sup>277</sup> Hațegan 2013, 248.

<sup>&</sup>lt;sup>278</sup> Illustration and positioning after Munteanu-Dumitru 1988, 108.

<sup>&</sup>lt;sup>279</sup> Holban *el al.* 1970, 328.

<sup>&</sup>lt;sup>280</sup> Archaeological excavations contradict Marsigli's plan.

<sup>&</sup>lt;sup>281</sup> Sebastyén 1984, 43.

<sup>&</sup>lt;sup>282</sup> Țeicu 2009, 75.

<sup>&</sup>lt;sup>284</sup> Țeicu 2009, 76.

<sup>&</sup>lt;sup>285</sup> Identified in the field based on ruins visible on satellite images and sketches published in Šmit, Bošković 1939, 301–329 apud http://perpetuum-mobile.net/putopisi/2006-novi-becej-i-araca/ today non-functional, accessed on 10.10.2020.

 $<sup>^{\</sup>rm 286}~$  Which corresponds in the Christian calendar to year 1551.

<sup>&</sup>lt;sup>287</sup> Mehmet, Stoicescu *el al*. 1976, 492.

<sup>&</sup>lt;sup>288</sup> Guboglu 1970, 32.

<sup>&</sup>lt;sup>289</sup> See Tab. 2.

<sup>&</sup>lt;sup>290</sup> We were unable to identify published archaeological excavations, instead we found images of a 2009 rescue excavation and a video presentation of the 2020 excavations on Serbian authorities' sites, https://www.youtube.com/watch?v=-Vh4RQkBITGU&feature=emb\_title accessed on 20.10.2020.

<sup>&</sup>lt;sup>291</sup> Fehér 1976 *apud* Feneşan 2014, 429.

<sup>&</sup>lt;sup>292</sup> http://perpetuum-mobile.net/putopisi/2006-novi-becej-i-araca/ accessed on 10.10.2020.

<sup>&</sup>lt;sup>293</sup> Hegyi 2007, 1413.

Attestation: 1349<sup>294</sup>

Ottoman conquest date: 1542<sup>295</sup>

Current condition: destroyed

*Location*: topped by public and private buildings in the Cerna River flowing area into the Danube. *Mentions by foreign travellers*:

According to Evliya Çelebi, the Orşova fortress is a beautiful, four-cornered *palanka*, built in wood and encircled by earthen walls, with an approximate circumference of 800 feet. Access is made by two gates: one small, oriented eastward and another, whose sizes are unknown, oriented westwards, towards the city. The southern part of the fortress is very close to the Danube so during heavy rainfall seasons the fortification is partially flooded. On the northern side of the fortress there are heights and deeper ditches. Within the walls, the most beautiful building is the Bey palace and a total number of 50 houses covered with shingles. The same traveller reports that nearby the northern gate there was a small mosque. The internal citadel was stone made before the Ottoman conquest and is according to Çelebi, very sturdy. Inside dwell only the *dizdar*, the imam, the *muezzin* and the *metterbasi*. Nearby the dungeon of this internal fortress there was a wooden tower with a large clock whose bang was heard from far away<sup>296</sup>.

*Archaeological research*: we are not aware of any published archaeological excavations of the Orșova fortress.

*Military units*: see Tab. 19 *Illustrations and mentions on cartographic documents*: first Austrian survey (ruins)<sup>297</sup>.

#### 2.36 **Pançova**

Current name: Pančevo, Southern Banat, Vojvodina, Serbia Attestation: 1414<sup>298</sup> Ottoman conquest date: 1551 (?) Current condition: in ruin Location: covered by the waters of the Danube<sup>299</sup> Mentions by foreign travellers:

About the fortress of *Pançova* Evliya Çelebi argues it is a wooden *palanka*, square in shape, sitting in a meadow formed by the Sava River flowing into the Danube. The fortress's circumference is approximately 100 feet. Within, there is a *dizdar* and 50 soldiers, ammunition storage facilities, sufficient warfare material, one mosque, a caravanserai and a small bazaar. Çelebi mentions there was no bath. The houses within the fortress are covered with reed and wattle<sup>300</sup>. Similarly to other fortresses from the Timișoara Eyalet, one may assume this fortress also had a defensive ditch and mobile bridge, which the Ottoman traveller failed to mention.

*Archaeological research*: archaeological excavations were performed over the course of the '80–'90s of the past century, research being published in a few articles of excavation reports type<sup>301</sup>.

*Military units*: see Tab. 20

*Illustrations and mentions on cartographic documents*: two maps that depict the Panciova fortress prior to the Austrian systemization found in the *Hadtörténeti Intézetés Múzeum* Collections, call numbers G I h 490/2<sup>302</sup> and G I h 482<sup>303</sup>.

#### 2.37 **Peciu**

*Current name*: Peciu Nou village, Peciu nou commune, Timiș county *Attestation*: 1333–1335<sup>304</sup>

<sup>&</sup>lt;sup>294</sup> Țeicu 2009, 105.

<sup>&</sup>lt;sup>295</sup> Holban *el al.* 1970, 326.

<sup>&</sup>lt;sup>296</sup> Mehmet, Stoicescu *el al.* 1976, 694–695.

 $<sup>^{\</sup>rm 297}\,$  www.mapire.eu accessed on 09.10.2020.

<sup>&</sup>lt;sup>298</sup> Țeicu 2009, 82.

<sup>&</sup>lt;sup>299</sup> Țeicu 2009, 82.

<sup>&</sup>lt;sup>300</sup> Mehmet, Stoicescu *el al*. 1976, 491.

<sup>&</sup>lt;sup>301</sup> Đorđević 2013, 15–16.

 $<sup>^{302} \</sup> https://maps.hungaricana.hu/en/HTITerkeptar/35727/?list=eyJxdWVyeSI6ICJwYW5jZXZvIn0\ accessed\ on\ 15.10.2020.$ 

 $<sup>^{303} \</sup> https://maps.hungaricana.hu/en/HTITerkeptar/35722/?list=eyJxdWVyeSI6ICJwYW5jZXZvIn0\ accessed\ on\ 15.10.2020.$ 

<sup>&</sup>lt;sup>304</sup> Hațegan 2013, 287.

Ottoman conquest date: 1551<sup>305</sup> Current condition: destroyed Location: unidentified in the field Mentions by foreign travellers:

The fortress was conquered, according to E. Çelebi, in 1551 by Kodja Mehmed Pasha. Within its walls were then camped a commander and 40 guarding soldiers. The construction is brick made, square, and no more than 500 feet in circumference. The fortress ditch is filled with water crossed by mobile bridges in front of the two entrance gates into the fortress. In the settlement nearby the fortification, there is a mosque, a *medrese*, three schools, a bath, forty small shops and 100 low houses covered with tiles or reed<sup>306</sup>.

Archaeological research: we are not aware of any existing published archaeological research.

#### 2.38 Rudna

*Current name*: Ruda village, Giulvăz commune, Timiș County *Attestation*: 1333<sup>307</sup> *Ottoman conquest date*: 1551 (?) *Current condition*: destroyed *Location*: the fortress was not identified in the field.

On the fortress of Rudna, Evliya Çelebi argues it is a *palanka* built by Ulama Pasha in the 16<sup>th</sup> century. At the time when the Ottoman explorer travelled through Banat (mid–17<sup>th</sup> century) the fortress lay in ruin. Within, there were still found 20 Christian houses and a commander with 20 *martolos*<sup>308</sup>.

Military units: see Tab. 21

#### 2.39 **Sarad**

Attestation: 1479<sup>309</sup> Ottoman conquest date: 1551–1552 (?) Current condition: destroyed Location: likely south the Pişchia village, Timiş County Military units: see Tab. 22

#### 2.40 **Şemkoloş**

*Current name*: Sânnicolau Mare city, Timiș County *Attestation*: the 14<sup>th</sup> century (?) *Ottoman conquest date*: 1551–1552 (?)

Current condition: destroyed

Location: the fortress was not identified in the field

*Mentions by foreign travellers*: the fortress is mentioned by Evliya Çelebi as *Şemkoloş* however unfortunately no description is provided<sup>310</sup>.

*Archaeological research*: the excavations performed there in late the 90s and early 2000s did not evidence the existence of a medieval fortification in the investigated area<sup>311</sup>.

#### 2.41 Mezeusumlov<sup>312</sup>

*Current name*: Şemlacul Mare village, Gătaia city, Timiș County *Attestation*: 1424<sup>313</sup> *Ottoman conquest date*: 1552 (?) *Current condition*: destroyed

<sup>308</sup> Mehmet, Stoicescu *el al*. 1976, 509.

<sup>310</sup> Mehmet, Stoicescu *el al.* 1976, 502.

<sup>312</sup> Rădulescu 2002, 79.

<sup>&</sup>lt;sup>305</sup> According to Evliya Çelebi.

<sup>&</sup>lt;sup>306</sup> Mehmet, Stoicescu *el al*. 1976, 649.

<sup>&</sup>lt;sup>307</sup> Hațegan 2013, 319.

<sup>&</sup>lt;sup>309</sup> Țeicu 2009, 107.

<sup>&</sup>lt;sup>311</sup> Bejan, Măruia 2007, 311.

<sup>&</sup>lt;sup>313</sup> Rădulescu 2002, 78.

#### 2.42 Tamaşvar

*Current name*: Timișoara Municipality, Timiș County *Alternate name*: Temesvár, Temeschwar *Attestation*: 1322<sup>314</sup>

Ottoman conquest date: 27 July 1552 (with a failed siege in the autumn of 1551)<sup>315</sup>

*Layout data*: the fortress (together with its suburbs) had a pentagonal shape and a surface area of approximately 36 hectares<sup>316</sup>.

*Current condition*: topped by the current town of Timișoara *Location*: Cetate quarters, Timișoara (Pl. 11<sup>317</sup>) *Mentions by foreign travellers*:

There are three descriptions and one graphic representation of the Timişoara fortress, all dated to the 17<sup>th</sup>-18<sup>th</sup> century. Since we did not note major differences between the four documents, we shall attempt to synthesize the information to draft a clear, concise text, as close to historical facts as possible. Chronologically, the four authors who directly or indirectly described the fortress of Timişoara are as follows: Wathay Ferenc, Evliya Çelebi, Henrik Ottendorf and Tutovicz Janos. The first is a graphical representation in the form of a miniature, the next three providing text descriptions (commonly drafted for a military purpose) as well as plans and sketches.

According to the descriptions of the period, the fortress of Timişoara lay on rank soil, in the marshlands created by the Timiş and Bega (or Beghei) rivers and was built of thick oak or elm trunks. The fortification's walls are built of wattle plastered with clay or gypsum and whitewashed. The inner fortress was made of timber and had, according to E. Çelebi a double wall of logs in-between battered with clay and mortar. It was made in this manner because of the flexibility provided by the constructional technique. Because of the surrounding marshes and the fact that walls were plastered, such a construction was unlikely to burn, while the barely accessible land just nearby the fortification hindered the construction of redoubts or trenches. On all its sides, the fortified structure was surrounded by defensive ditches of variable sizes. E. Çelebi explained that wood was the main building material because a hard-material-built fortress could easily sink into the marshy soil of Timişoara while building stone was missing from the area<sup>318</sup>. The fortification had five gates, which according to Evliya Çelebi were iron-made and fixed in wood, in front of which there was a retractable bridge. The five entrances were called:

1. The Rooster Gate<sup>319</sup> (or the Seghedin Gate<sup>320</sup>)

The Rooster Gate was thus called as most likely there stood a sheet iron rooster. It lies on the northwest side of the town and was entirely built in stone or brick before 1552. To the exterior, it was protected by a semicircular fortification on which small artillery pieces could be assembled. Directly on top of the gate's masonry there stood a roof, so artillery equipment could not be mounted there<sup>321</sup>.

2. The Azaps Gate (or the Arad Gate)

On the Azaps Gate was placed a clock, which most often did not work, according to H. Ottendorf. The gate lies on the opposite side of the Rooster Gate and was also protected by a semicircular fortification. The structure was built only in the *intra-muros* part and together with the earth fortification erected there, the wall was approximately 3.8 meters wide in total. The author of the description mentions that between the Azaps Gate and the Rooster Gate the wall was protected by a double defensive ditch<sup>322</sup>.

#### 3. The Bank Gate (or Water Gate)

This gate was situated according to the examined plans on the south-eastern side of the citadel. The ditch between the Water Gate and the Azaps Gate is, according to the descriptions, lined with

<sup>&</sup>lt;sup>314</sup> Țeicu 2009, 112.

<sup>&</sup>lt;sup>315</sup> Feneșan 2014, 119.

<sup>&</sup>lt;sup>316</sup> Area computed by software Qgis 3.14 PI based on georeferencing the map of cartographer François Perrette.

 $<sup>^{\</sup>rm 317}~$  Plan georeferenced after Opriș 2007.

<sup>&</sup>lt;sup>318</sup> Mehmet, Stoicescu *el al*. 1976, 496–500.

 $<sup>^{\</sup>scriptscriptstyle 319}~$  First name is provided according to Evliya Çelebi.

<sup>&</sup>lt;sup>320</sup> The second name is provided by Tutovicz János.

<sup>&</sup>lt;sup>321</sup> Feneșan 2014b, 296.

<sup>&</sup>lt;sup>322</sup> Feneşan 2014b, 296–297.

longs on both sides and filled with water. The ditch-related rampart was 3.5 meters high and not serviced by a covered road. According to the Austrian spy, Tutovicz, the more elevated land favoured the construction of trenches<sup>323</sup> there.

4. The Citadel Gate (the small castle gate)

This entrance lies on the southern side of the fortress and is connected to the fortified city and the fortress by a mobile bridge. The ditch before this gate was narrow and filled with the Beghei river water<sup>324</sup>.

5. The Blood Gate (or the Tower Gate)

Tutovicz also mentions a fifth gate, likely located on the southwestern side of the fortress, the socalled Gate of the Blood (as termed by H. Ottendorf), yet no description follows<sup>325</sup>.

Within the town there are four suburbs with 1200 single-roofed, stove-heated houses<sup>326</sup>. Çelebi speaks of four mosques<sup>327</sup>, 400 small shops, one bazaar yet also of wood-planked streets. Regarding the water supply of the inhabitants, the Ottoman traveller argues that the Muslims preferred running water, so they drank water from fortress ditches, where everybody discarded their waste. The same scholar reminds the existence within the fortress of coffee houses and grain barns<sup>328</sup>.

The internal courtyard is flat rectangular and stone-built, described as a sturdy, beautiful construction surrounded by the Timiş River. In front, there was a large square paved with a hard mortar layer, most likely the same discovered on street Lucian Blaga during the archaeological campaign of 16 January – 10 April 2014<sup>329</sup>. The fortress towers and storage facilities are, according to Çelebi, full of treasures, equipment and supplies and no one, except the high priests, is allowed access inside.

According to Henrik Ottendorf, who visited the town in 1663, the castle is an old construction, with a simple, rectangular layout and strong walls and towers. The town is surrounded by a wall with sound palisades made of wattle-and-daub and on certain stretches, it was doubled and filled with earth. The ditches encircling the fortress are deep yet neglected, the Ottomans cleaning them rarely<sup>330</sup>. Town streets and suburbs are wooden planked because of the marshy soil, which, even in little rain turned into mud. The "island"<sup>331</sup> inhabitants are all "Turks"<sup>332</sup>, while the Christians inhabited the suburbs and lived, like many Muslims, on trade and farming<sup>333</sup>. Ottendorf also reports certain topical events that affected the fortress of Timișoara in one way or another: in 1566, the fortress was partially destroyed by the explosion of the gunpowder house, in 1597 it was unsuccessfully besieged and in 1603, the suburbs were set ablaze by outlaws<sup>334</sup>.

The last traveller to speak of the fortress of Timișoara during the Ottoman period was Tutovicz János, the town judge of Seghedin (Szeged, Hungary). He was most likely contacted in 1716 by the leadership of the Austrian troops sometime prior to the conquest of Petrovaradin (on 5 August 1716). It is unclear how he entered the fortress, yet his description seems to have been decisive for the Austrian conquest<sup>335</sup>. He generally spoke of the weak points of the Ottoman fortress of Timișoara. We mentioned his reports when discussing the fortification gates above.

In the illustration made in the early 17<sup>th</sup> century by Wathay Ferenc are visible two of Timişoara's mosques, the citadel with four towers (out of which three are circular and one is square), a few taller buildings, the houses inside the fortification as well as three of the fortress gates. On the left side is rendered the Rooster Gate, in the middle likely the Azaps Gate and to the left, in front of the castle, the small fortress gate, the only of all the three rendered as provided with a defensive tower. According to

<sup>&</sup>lt;sup>323</sup> Feneșan 2014b, 297.

<sup>&</sup>lt;sup>324</sup> Feneșan 2014b, 297.

<sup>&</sup>lt;sup>325</sup> Feneșan 2014b, 297.

<sup>&</sup>lt;sup>326</sup> Çelebi reports that the only "stone" structures of the town are house chimneys.

<sup>&</sup>lt;sup>327</sup> Compared to Ottendorf, who mentions eight.

<sup>&</sup>lt;sup>328</sup> Mehmet, Stoicescu *el al*. 1976, 497–499.

<sup>&</sup>lt;sup>329</sup> Flutur *el al*. 2018, 9–11.

<sup>&</sup>lt;sup>330</sup> Hațegan, Negrescu 2006, 11.

<sup>&</sup>lt;sup>331</sup> The inner city.

<sup>&</sup>lt;sup>332</sup> Likely, the traveller was strictly referring to the religious affiliation of the fortified town inhabitants.

<sup>&</sup>lt;sup>333</sup> Hațegan, Negrescu 2006, 16.

<sup>&</sup>lt;sup>334</sup> Hațegan, Negrescu 2006, 17.

<sup>&</sup>lt;sup>335</sup> Feneșan 2014, 296.

the depiction, the only gate figured differently is the Rooster Gate (or the Seghedin Gate), the material of which it was made likely being brick or worked stone blocks. According to Ottendorf's description, between the two mosques figured by W. Ferenc lies the bazaar of Timișoara's fortress, described as composed of vaulted structures in which various foodstuffs were sold and purchased<sup>336</sup>.

Thus, according to the three descriptions of Ottoman Timișoara, the town was very well fortified, defended by ditches and high palisades on all sides. Its inhabitants had available beside the bazaar, also market places, coffee houses and baths (archaeologically recorded since 2015) as well as eight cult places. One may assume that the last description of the town city aided its conquest by the Austrians to a certain extent as the decisive attack of the Habsburg troops occurred precisely on the segment described by Tutovicz as the most poorly fortified, namely somewhere nearby the Water Gate area.

*Archaeological research*: approximately 25 archaeological excavations campaigns were conducted on the territory of medieval Timișoara<sup>337</sup>.

Military units: see Tab. 23

*Illustrations and mentions on cartographic documents*: a miniature depicting the conquest of the fortress of Timișoara in 1552<sup>338</sup>; a Persian miniature made by Fütühat-i Camila<sup>339</sup>; miniature by Wathay Ferenc, a drawing made by H. Ottendorf during his visit of the Timișoara town<sup>340</sup>; plans drawn up by captain-chief engineer Perrette<sup>341</sup>.

#### 2.43 **Semlik**<sup>342</sup>

Current name: Vršac, Southern Banat district, Vojvodina, Serbia Alternate names: Virsics, Versec<sup>343</sup> Attestation: 1323<sup>344</sup> Ottoman conquest date: 1551 Layout data: pentagonal shape, approximate surface area of 1300 m<sup>2</sup> Current condition: restored Location: north-west the city of Vârșeț (Pl. 3<sup>345</sup>) Archaeological research<sup>346</sup>: 1997–2000<sup>347</sup> Military units: see Tab. 24

#### 2.44 Yenipalanka

*Current name*: Banatska Palanka, South Banat district, Vojvodina, Serbia *Alternate names*: *Ienipalanka*, *Uj-Palanka Attestation*: the 15<sup>th</sup> century (?) *Ottoman conquest date*: according to E. Çelebi, in the 15<sup>th</sup> century *Current condition*: destroyed *Mentions by foreign travellers*: According to Evliva Celebi's descriptions, the Ui-Palanka fortification w

According to Evliya Çelebi's descriptions, the Uj-Palanka fortification was conquered by the late 15<sup>th</sup> century. In 1661–1662, Ahmed Pasha built a new fortification there (hence the name *Uj-Palanka* or *Ieni Palanka*). The fortress, square in shape, stands on a height in the vicinity of the Danube and had inside a mosque, 50 houses covered with planks and the Pasha Sarayi covered with tiles. Access was made by two gates, one eastward and another, smaller, towards the Danube. Before the gates, there was a deep ditch covered by mobile bridges pulled by cranes (pulleys?)<sup>348</sup>.

<sup>&</sup>lt;sup>336</sup> Hațegan, Negrescu 2006, 14.

<sup>&</sup>lt;sup>337</sup> We also included the excavations performed in the Palanca Mare and Palanca Mică suburbs.

<sup>&</sup>lt;sup>338</sup> Fehér 1976 *apud* Feneşan 2014, 434.

<sup>&</sup>lt;sup>339</sup> Fehér 1976 *apud* Feneşan 2014, 433.

<sup>&</sup>lt;sup>340</sup> Feneșan 2014, 440.

<sup>&</sup>lt;sup>341</sup> Opriș 2007, 16–19.

<sup>&</sup>lt;sup>342</sup> Hegyi 2007, 1371.

<sup>&</sup>lt;sup>343</sup> Hegyi 2007, 1371.

<sup>&</sup>lt;sup>344</sup> Țeicu 2009, 113.

 $<sup>^{\</sup>rm 345}~$  Plan after Nikolić 2011 and current satellite images.

<sup>&</sup>lt;sup>346</sup> The archaeological investigations make no mention of Ottoman date finds.

<sup>&</sup>lt;sup>347</sup> Nikolić 2011, 95.

<sup>&</sup>lt;sup>348</sup> Guboglu 1970, 55.

Military units: see Tab. 25

*Illustrations and mentions on cartographic documents*: an undated plan of which there is no further information, found by chance, most likely the closest to 16<sup>th</sup>–18<sup>th</sup>-century facts<sup>349</sup>; a 1722 plan, likely the fortification was fundamentally changed by the Habsburgs<sup>350</sup>; the map *Plan der Gegendum Weisskirchennebst der Schanze bei Uipalanka* now with the *Hadtörténeti Intézetés Múzeum*, Budapest, call number G I h 168/1<sup>351</sup>.

#### 2.45 Beşkelek

Current name: Zrenjanin, Central Banat, Voivodina, Serbia Alternate name: Becicherec Attestation: the 14<sup>th</sup> century<sup>352</sup> Ottoman conquest date: 25 September 1551<sup>353</sup> Layout data: rectangular shape, with an approximate area of 4.5 ha Current condition: destroyed Location: in the middle of the town, topped by public and private buildings (Pl. 6<sup>354</sup>)<sup>355</sup> Mentions by foreign travellers:

According to the Ottoman traveller Evliya Çelebi, the name means in the Ottoman Turkish language "cinci pepeni galbeni<sup>356</sup>" ("*five melons*"). The fortification was conquered by Kodja Sokollu Tavil Mehmet Pasha in 1551, who made it prosper. All public buildings were built in the town upon his orders: caravanserais, baths, guest houses, *medrese*, the bazaar, etc. The fortress is not properly described, Çelebi mentioning only that prior to its conquest, the fortification was a small *palanka*<sup>357</sup>.

Military units: see Tab. 26

*Illustrations and mentions on cartographic documents*: one miniature rendering the fortress siege in 1551<sup>358</sup>; sketches made by Luigi Fernando Marsigli in the 17<sup>th</sup> century<sup>359</sup>.

#### Conclusions

The study of the Ottoman period in Romania received an impetus in recent years, owing to the Hungarian scholar's interest, who published large scale-studies (both historical and archaeological) discussing the respective period, and the increased attention for the examination of the Near East in general historiography. The impulse offered by the Hungarian scientific community made the Romanian and Serbian scholars put out studies, which, corroborated, and lay the foundations for the study of the Ottoman period in the Banat. We attempted here to answer the question we posed in the introductory part of this paper: "What does the Ottoman defensive system actually looks like in the area known today as the Banat?". Thus, we started by explaining how the Ottoman defence operated in the area, starting from fortifications built by the Hungarian administration and the pathways by which the Ottomans consolidated their power in this region. We further addressed the issue of the three fortification types identified in Ottoman censuses: *kale, palanka* and *parkan* and provided new information related to certain aspects of the communications network in the Banat, in our view, the most important component of the entire defensive system. Next, we reviewed all available data on the construction and repair manner of the fortifications. Because of the Ottoman practice not to draft

<sup>&</sup>lt;sup>349</sup> https://sok.riksarkivet.se/amnesomrade?postid=Arkis+62d1c66b-4674-4553-846e-cd992c333eca&infosida=amnesomrade-militaria&flik=1&s=Balder accessed on 08.10.2020.

<sup>&</sup>lt;sup>350</sup> https://mapy.mzk.cz/mzk03/001/052/925/2619316594/ accessed on 09.10.2020.

<sup>&</sup>lt;sup>351</sup> https://maps.hungaricana.hu/en/HTITerkeptar/34928/?list=eyJxdWVyeSI6ICJ1aXBhbGFua2EifQ accessed on 08.10.2020.

<sup>&</sup>lt;sup>352</sup> The fortress is recorded by the same papal diploma that records the fortress of Caraşova, in 1323, issued by Pope John the 22nd.

<sup>&</sup>lt;sup>353</sup> Feneșan 2017, 131.

<sup>&</sup>lt;sup>354</sup> Approximate location with the aid of Marsigli's sketches and the official site of the Zrenjanin Cityhall; http://www.zrenjanin.rs/sr-lat/o-gradu/gradska-kuca/na-temeljima-beckerecke-tvrdjave accessed on 15.10.2020.

<sup>&</sup>lt;sup>355</sup> Approximate location.

<sup>&</sup>lt;sup>356</sup> Ottoman Turkish – *Beş Kelek*.

<sup>&</sup>lt;sup>357</sup> Mehmet, Stoicescu *el al.* 1976, 649–650.

<sup>&</sup>lt;sup>358</sup> Fehér 1976 *apud* Feneşan 2014, 430.

<sup>&</sup>lt;sup>359</sup> http://www.zrenjanin.rs/sr-lat/o-gradu/gradska-kuca/na-temeljima-beckerecke-tvrdjave accessed on 15.10.2020.

military architecture treaties (mainly for military reasons), explaining how they built their fortifications is we believe difficult and far from being entirely clarified.

Regarding the field location of the fortifications, most existing data come at this point from Romania. This is due to the Hungarian and Serbian specialists' preference to address less the topic of the fortresses from the Banat for reasons that remain unknown to us so far. By mapping fortresses and road networks, it may be noted that fortifications always lie on military or trade important arteries or waterways that allow upstream or downstream movement towards neighboring fortifications, swiftly and efficiently. Using available data to date, we could make approximate determinations of displacement times between fortresses or reaction times in the event of attacks. An interesting analysis whose concept we adopted from one of the examined Hungarian scholars reconfirmed that, similarly to Hungary, in the Banat the Ottomans were well aware of the area's geography and acted as such. In fortresses located in marshlands they settled troops according to the land peculiarities – the ratio between infantry and cavalry units being well proportionate. Cavalrymen, placed in most fortresses from the Banat were fewer than infanterists - owing to the cavalry's reduced mobility. Their role was nonetheless well established, being efficient, in the event of an attack, in weakening the enemy's communication and supply lines. In the second part of the work we reviewed, where available, all information found in the academic literature on the forty-five identified fortresses in the Ottoman Banat area. The main discussed aspects included the following: names (current and Ottoman as well), attestation, the date of the Ottoman conquest, layout data, condition, location, contemporary mentions, conducted archaeological research, known military units and illustrations. We have thus drawn up a catalogue that may be a starting point for future studies addressing each fortification.

Returning to the question posed in the introduction here, we may contend, as we did over the course of the paper, that the defensive system in the Banat operated for 164 years similarly to a living organism, being an intricate network that facilitated transport and communications between the for-tresses, alike a neuronal network by which information moves at high speed, whilst any possible dangers were removed in the shortest time with the aid of the centers nearby.

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Tab. 1. Troops stationed in Bocșa.

	1554	1569	1579	1591	1621	1628-1630	1634	1655
Bocșa <sup>1</sup>	20AP 3T	19AP	19AP 3T	31C 32M	27C 22AZ 16M	16C 9M	19C 11M	300S

<sup>1</sup> Hegyi 2007, 1386–1390.

Tab. 2. Troops stationed in Cenad.

	1591	1621	1628-1630	1634	1655	1700-1707
<b>Cenad</b> <sup>1</sup>	43C	20AP	31AP	31AP	300S	40, 40, 34S
	31M	10T	11T	11T		
		38C	46C	69C		
		19AZ	31AZ	31AZ		
		15M	18M	19M		

<sup>1</sup> Hegyi 2007, 1430–1434.

Tab. 3. Troops stationed in Ciacova.

	1554	1569	1579	1621	1634
Ciacova <sup>1</sup>	12AP	10AP	10AP	4AP	5AP
	1T	2T		17C	17M
		1MŞ		18AZ	
		· · ·		29M	

<sup>1</sup> Hegyi 2007, 1391–1393.

Tab. 4. Troops stationed in Coronini.

	1569	1579	1591*	1604-1605	1621	1634	1655
<b>Coronini</b> <sup>1</sup>	29AP 35T 20AZ 24M	28AP 4T	22AZ 26M ?SP <sup>2</sup>	28C 53AZ 22M	16C 44AZ 35M	41AZ	300S

<sup>1</sup> Hegyi 2007, 1407–1412.

<sup>2</sup> Unknown number

Tab. 5. Troops stationed in Kovin.

	1606	1621	1629-1630
Kovin <sup>1</sup>	29AP 8T 29AZ 40M	17AP 6T 19AZ	14AP 4T

<sup>1</sup> Hegyi 2007, 1398–1399.

Tab. 6. Troops stationed in Daubadad.

	1581	1629-1630	1634
Daubadad <sup>1</sup>	22AZ	11AZ	11AZ
		10M	10M

<sup>1</sup> Hegyi 2007, 1420–1422.

Tab. 7. Troops stationed in Denta.

	1621	1634	1650	1700-1707
Denta <sup>1</sup>	12AP	17C	50S	47, 40, 36S
	30C	1IM		
	1I			
	18AZ			
	26M			

<sup>1</sup> Hegyi 2007, 1400–1402.

Tab. 8. Troops stationed in Drencova.

	1621
Drencova <sup>1</sup>	17M
<sup>1</sup> Hegyi 2007, 1429.	

Tab. 9. Troops stationed in Dudeștii-Vechi.

	1621	1628-1630	1634	1655
Dudeștii-Vechi <sup>1</sup>	15AP	18AP	14AZ	80S
,	5T	14T	4T	
	21C	17M	18M	
	21M			

<sup>1</sup> Hegyi 2007, 1445–1446.

Tab. 10. Troops stationed in Făget.

	1554	1569	1579	1591	1629-1630	1634	1660	1700-1707
Făget <sup>1</sup>	26AP 4T	32AP 8T	32AP 8T	91C 12AZ	?AP <sup>2</sup> ?T <sup>3</sup>	34C 18AZ	300S	25, 25, 21S
					34C 18AZ			

<sup>1</sup> Hegyi 2007, 1381–1385.

<sup>2</sup> Unknown number

<sup>3</sup> Unknown number

Tab. 11. Troops stationed in Felnac.

	1554	1569	1579	1621	<b>1629–1630</b> *1	1634*	1660
Felnac <sup>2</sup>	25AP	17S	16AP	2AP	?AP	23C	50S
	4T			2T	?T	8M	
				34C	?C		
				46AZ	?M		
				27M			

<sup>1</sup> Available data unfortunately does not provide exact numbers.

<sup>2</sup> Hegyi 2007, 1377–1380.

Tab. 12. Troops stationed in Haram.

	<b>1607</b> *	1621
Haram <sup>1</sup>	84S (AP+T+C+M)	15AP
		12T
		24C
		27AZ

<sup>1</sup> Hegyi 2007, 1417–1418.

Tab. 13. Troops stationed in Ictar-Budinț.

	1621*	1622
Ictar-Budinț <sup>1</sup>	93S (AP+T)	34C
		39M

<sup>1</sup> Hegyi 2007, 1403.

Tab. 14. Troops stationed in Jimbolia.

	1628-1630*	1634
<b>Jimbolia</b> <sup>1</sup>	?M <sup>2</sup>	23M

<sup>1</sup> Hegyi 2007, 1404.

<sup>2</sup> Unknown number

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Tab. 15. Troops stationed in Lipova.

	1554	1567	1579	1591	1621	1628-1630	1660	1700-1707
Lipova <sup>1</sup>	133AP	103AP	103AZ	62C	87AP	54AP	800S	40, 40, 34
	31T	27T	17T	ЗМŞ	18T	17T		
	1B			117ÁZ	46G	19G		
				43M	309C	303C		
					350AZ	365AZ		
					9P	10P		
					134M	108M		

<sup>1</sup> Hegyi 2007, 1447–1457.

Tab. 16. Troops stationed in Liubcova.

	1603-1608	1621	1629-1630	1634	1655
Liubcova <sup>1</sup>	6T 64M	20AP 3T 20M	2T 37M	2T 40M	60S

<sup>1</sup> Hegyi 2007, 1423–1425.

Tab. 17. Troops stationed in Mehadia.

	1621	1629-1630	1634	1700
<b>Mehadia</b> <sup>1</sup>	11AP	11AP	10AP	37S
	20C	20C	20C	
	15AZ	15AZ	15AZ	
	17M	18M	18M	

<sup>1</sup> Hegyi 2007, 1426–1428.

Tab. 18. Troops stationed in Novi-Bečej.

	1552	1621	<b>1629–1630</b> *	1655
Novi-Bečej <sup>1</sup>	104AP	18AP	?AP <sup>2</sup>	40S
	27T	5T	?T <sup>3</sup>	
	201C	26AZ	27AZ	
	165AZ	1M	$?M^4$	
	100M			

<sup>1</sup> Hegyi 2007, 1439–1442. <sup>2</sup> Unknown number.

<sup>3</sup> Unknown number.

<sup>4</sup> Unknown number.

Tab. 19. Troops stationed in Orșova.

	1621	1629-1630	1634	1655
Orșova <sup>1</sup>	30AP	28AP	27AP	150S
ŕ	13T	15T	13T	
	38C	29C	29C	
	62AZ	51AZ	55AZ	
	45M	45M	40M	

<sup>1</sup> Hegyi 2007, 1413–1416.

Tab. 20. Troops stationed in Pančevo.

	1606	1621	1629-1630	1634	1660	1700-1707
Pančevo <sup>1</sup>	37AP 46C 50AZ 80M	31AP 49C 31AZ	34AP 40C 12M	35AP 43C	50S	169, 169, 151

<sup>1</sup> Hegyi 2007, 1394–1397.

Tab. 21. Troops stationed in Rudna.

	1628-1630	1634
Rudna <sup>1</sup>	33M	12M
111 :0007 44	05	

<sup>1</sup> Hegyi 2007, 1405.

Tab. 22. Troops stationed in Sarad.

	1628-1630	1634	1650
Sarad <sup>1</sup>	14M	14M	30C
			14M

<sup>1</sup> Hegyi 2007, 1406.

Tab. 23. Troops stationed in Timișoara.

, 50T 6MŞ 27MŞ 120AZ 55T 70T 76T 77T		1552	1554	1569	1579	1591	1621	1629- 1630	<b>1631–</b> <b>1632</b> *1	1633- 1634	Sec 17–18
9M\$       41T       41T       41M       19G       36S       35S       31S         15S       71M\$       73M\$       75M\$       69M       289C       259C       320C         278C       224AZ       261AZ       249AZ         202AZ       14P       14P       14P         11P       63M       63M       63M         22M       161JS       53M       53M	<b>Timișoara</b> <sup>2</sup>	1600S?					55T 19G 15S 69M 278C 202AZ 11P	118AP 70T 36S 71MŞ 289C 224AZ 14P 63M	96AP 76T 35S 73MŞ 259C 261AZ 14P	134AP 77T 31S 75MŞ 320C 249AZ 14P	3371S <sup>3</sup>

<sup>1</sup> AP outside the first enclosure were not included in this record.

<sup>2</sup> Hegyi 2007, 1351–1370.

<sup>3</sup> Maximum number of troops in the discussed interval.

## Tab. 24. Troops stationed in Vârșeț.

	1554	1569	1579	1591	1607	1621	1628- 1630	1634	1655	1700- 1707
Vârșeț <sup>1</sup>	11AP	11AP	11AP	22AP 22M	11T 21C 33M	2AP 12T 77C 24AZ 64M	10AP 6T 32C 16AZ 30M	12AP 10T 35C 26AZ 33M	205	50, 57, 48S

<sup>1</sup> Hegyi 2007, 1371–1376.

Tab. 25. Troops stationed in Yenipalanka.

	1621	1628-1630	1634
Yenipalanka <sup>1</sup>	24M	15AP	15AP
		7T	8T
		15M	17M

<sup>1</sup> Hegyi 2007, 1419–1420.

Tab. 26. Troops stationed in Zdrenjanin.

	1552	1621	1700-1707
<b>Zdrenjanin</b> <sup>1</sup>	132AP	19AP	40, 40, 34S
·	15T	6T	
	5MŞ	5TEX	
	302C	11C	
	134AZ		
	101M		

<sup>1</sup> Hegyi 2007, 1435–1438.

	ST	9ST	69ST	6 <b>2</b> 9T	<b>T8ST</b>	t6st	1909 1903 1903	509T ₱09T	909T	209T	1621	1622	1630 1628-	1632 1631-	тез <del>4</del> тезз-	₽£9T	0S9T
	100:0	X	100:0	100:0	Х	Х	Х	Х	Х	Х	59:41	Х	36:64	Х	Х	63:37	Х
	X	Х	Х	Х	Х	42:58	Х	Х	Х	Х	63:37	Х	67:33	Х	Х	57:43	Х
Ciacova X	100:0	X	100:0	100:0	X	X	X	X	X	X	75:25	X	X	X	X	100:0	X
<b>Coronini</b> X	X	X	100:0	100:0	X	100:0	х	74:26	Х	Х	83:17	х	Х	Х	Х	100:0	Х
Kovin X	X	X	Х	Х	X	X	X	X	100:0	Х	100:0	Х	100:0	Х	X	X	Х
Daubadad X	X	X	Х	Х	100:0	X	X	X	X	Х	X	х	100:0	Х	X	100:0	X
<b>Denta</b> X	X	X	Х	Х	Х	Х	Х	Х	X	Х	56:34	Х	Х	Х	X	100:0	Х
Drencova X	X	Х	Х	Х	Х	X	Х	Х	Х	Х	100:0	Х	Х	Х	Х	Х	Х
Dudeștii- X Vechi	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	67:33	Х	100:0	Х	Х	X	Х
<b>Făget</b> X	100:0	X	100:0	100:0	X	X	X	X	X	х	х	X	35:65	Х	X	35:65	Х
<b>Felnac</b> X	100:0	X	100:0	100:0	X	X	X	X	X	Х	70:30	X	Х	Х	X	26:74	Х
Haram X	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	69:31	Х	Х	Х	Х	Х	Х
Ictar-Budinț X	X	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	47:53	Х	Х	Х	Х	Х
<b>Jimbolia</b> X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	100:0	Х	Х	100:0	Х
<b>Lipova</b> X	100:0	100:0	Х	100:0	Х	61:39	Х	Х	Х	Х	67:33	Х	66:34	Х	Х	Х	Х
Liubcova X	X	X	Х	Х	Х	Х	100:0	Х	Х	Х	100:0	Х	100:0	Х	Х	100:0	Х
<b>Mehadia</b> X	X	X	Х	Х	Х	X	Х	Х	X	Х	68:32	Х	69:31	Х	Х	68:32	Х
Novi-Bečej 67:33	8 X	Х	Х	Х	Х	Х	Х	Х	Х	Х	100:0	Х	Х	Х	Х	Х	Х
<b>Orșova</b> X	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	80:20	Х	83:17	Х	Х	82:18	Х
<b>Pančevo</b> X	Х	Х	Х	Х	Х	Х	Х	Х	79:21	Х	56:44	Х	54:46	Х	Х	45:55	Х
Rudna X	X	X	Х	Х	Х	X	Х	Х	X	Х	Х	Х	100:0	X	X	100:0	Х
Sarad X	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	100:0	Х	Х	Х	68:32
<b>Timișoara</b> X	100:0	X	100:0	100:0	Х	59:41	Х	Х	Х	Х	63:37	Х	70:30	68:32	64:36	Х	Х
Vårşet X	100:0	Х	100:0	100:0	Х	100:0	Х	Х	Х	68:32	Х	Х	66:34	Х	Х	70:30	Х
<b>Yenipalanka</b> X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	100:0	Х	100:0	Х	Х	100:0	Х
Zdrenjanin 57:43	X	Х	Х	Х	X	Х	Х	Х	Х	Х	74:26	Х	Х	Х	Х	Х	Х

1552-1650.
units between
of infantry-cavalry
Tab. 27. Ratio o

<sup>1</sup> No data

Bocșa	46:54
Cenad	57:43
Ciacova	75:25
Coronini	78:22
Kovin	100:0
Daubadad	100:0
Denta	33:67
Drencova	100:0
Dudeștii-Vechi	67:33
Făget	27:73
Felnac	48:52
Haram	69:31
Ictar-Budinț	47:53
Jimbolia	100:0
Lipova	65:35
Liubcova	100:0
Mehadia	68:32
Novi-Bečej	67:33
Orșova	82:18
Pančevo	67:33
Rudna	100:0
Sarad	32:68
Timișoara	65:35
Vârșet	68:32
Yenipalanka	100:0
Zrenjanin	65:35

Tab. 28. Infantry-cavalry ratio mean between 1552–1650<sup>360</sup>.

## **List of Abbreviations**

Table: \* = incomplete register AP = fortress defenders T = gunners TEX = field gunners C = cavalryG = guardsB = producer of explosive materials M = martolosAZ = azapsMŞ = craftsmen I = Imam P = pontonier JS = janissaries S = soldiers without established function SP = paid soldiers

<sup>&</sup>lt;sup>360</sup> Resulted values represent the arithmetic mean of infantry-cavalry percentages from table 27 computed only for the years when the fortress registers listed cavalry units. For fortresses where cavalry units were not recorded in any registers, the value is 100% infantry.

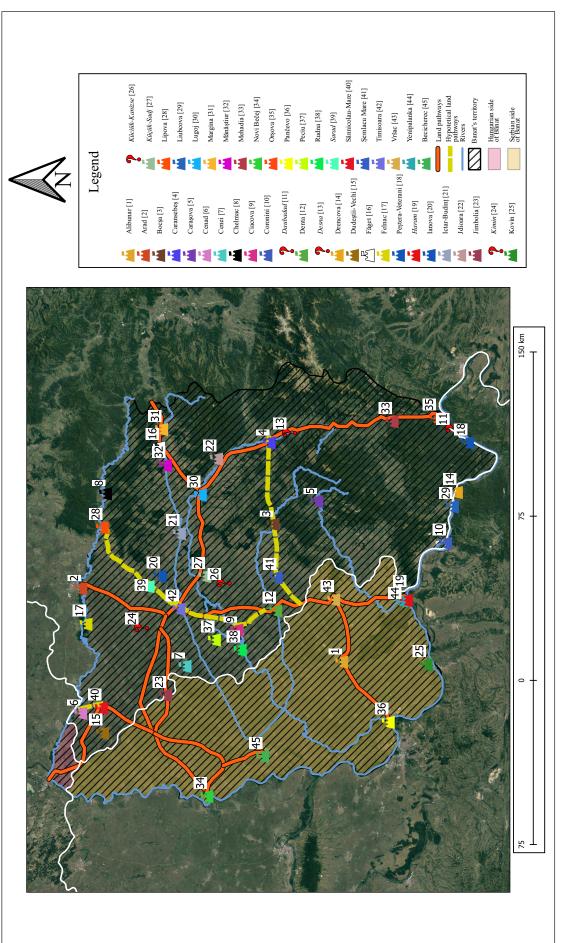
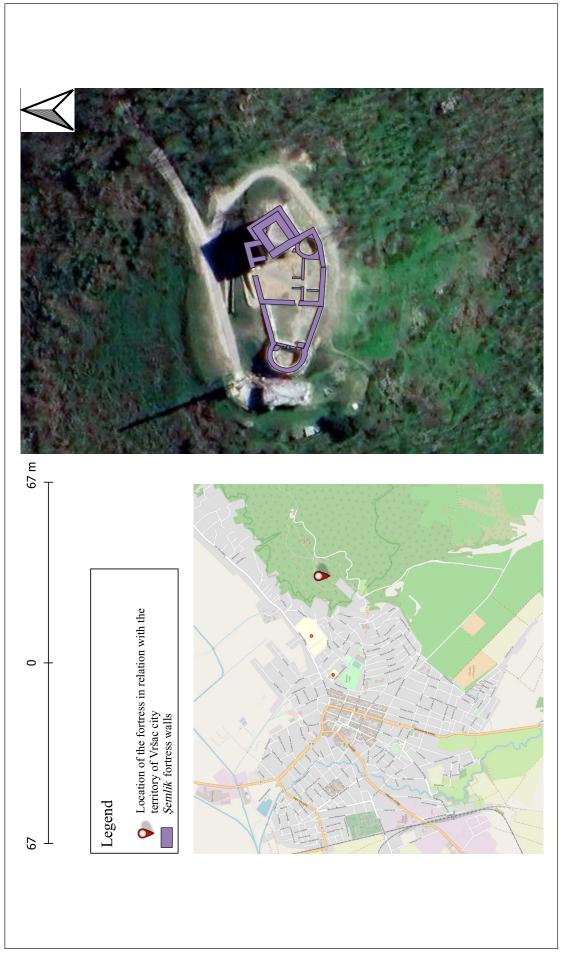
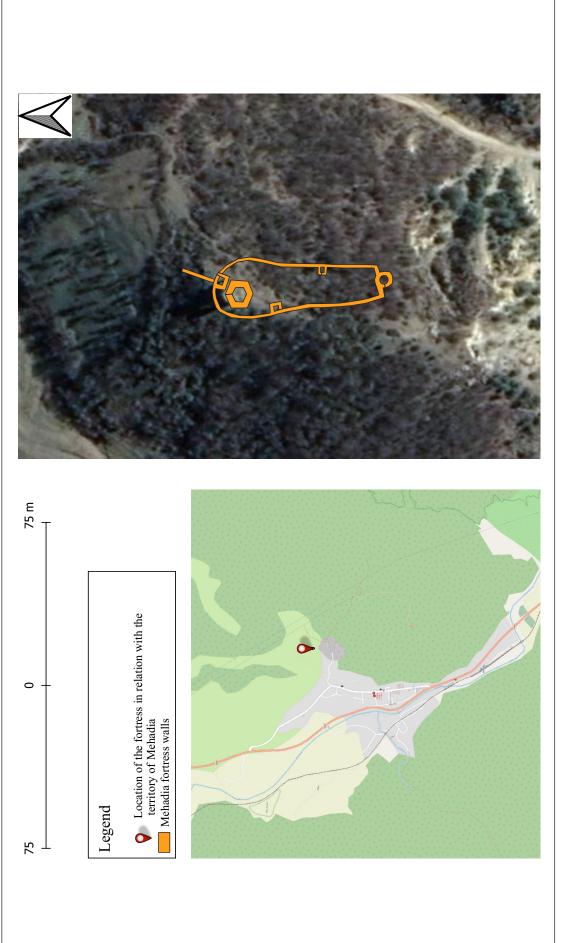


Plate 1. The defence system of the Banat during the Ottoman rule (the  $16^{
m th}$  –  $18^{
m th}$  century)

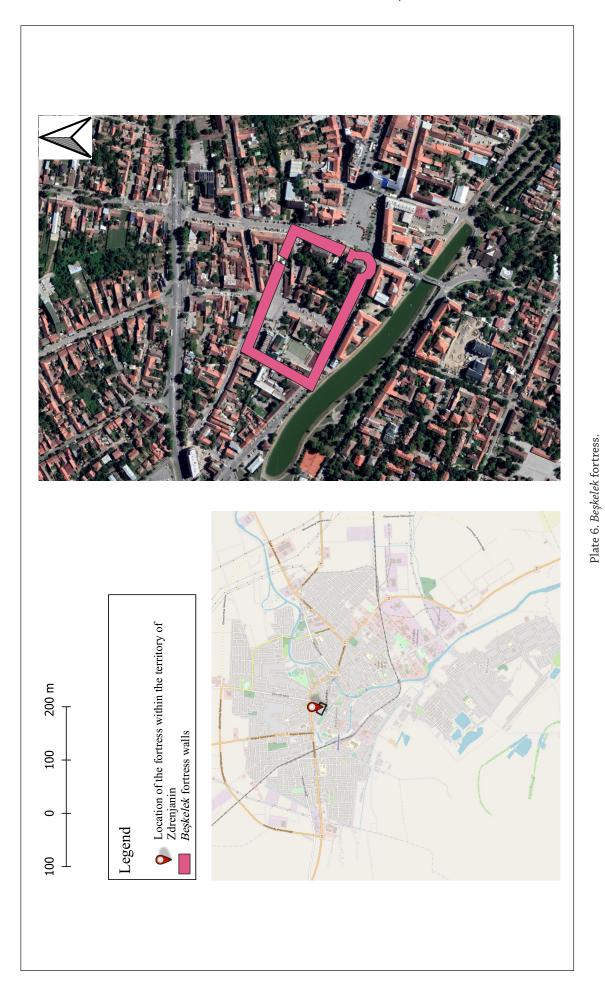


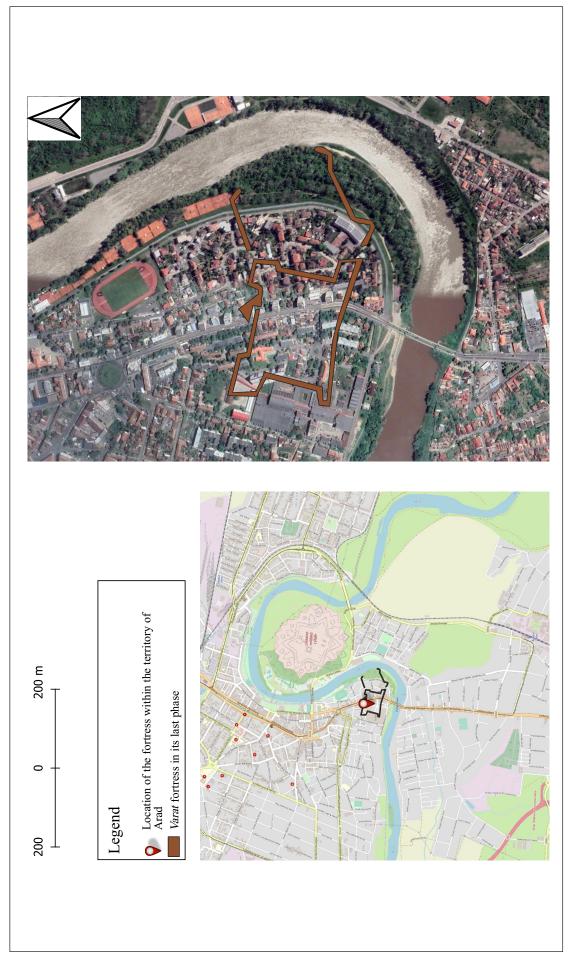




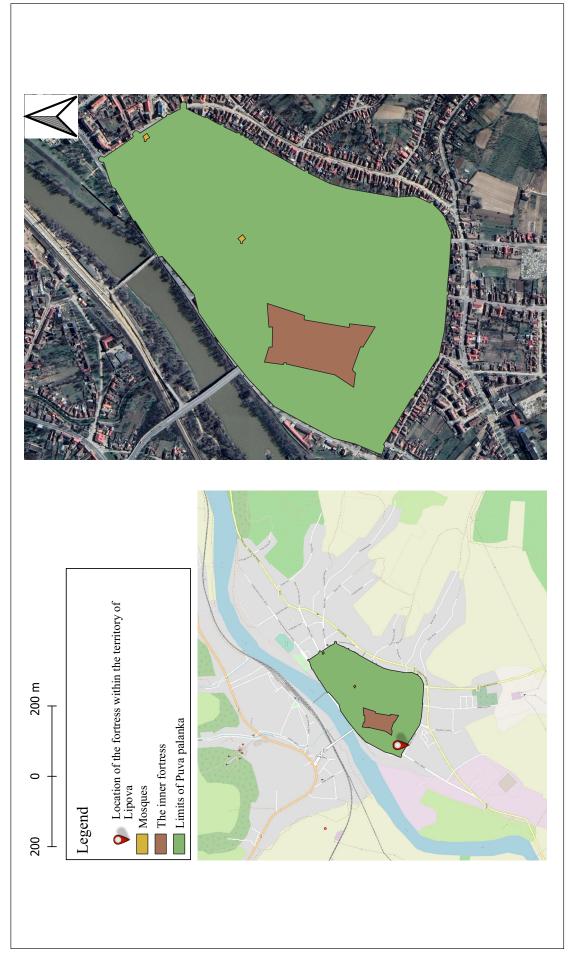


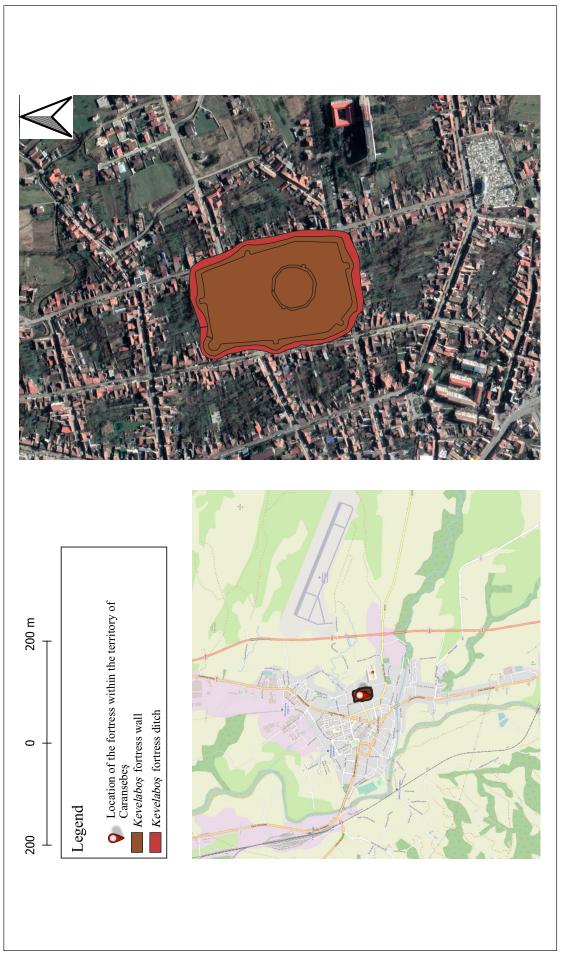


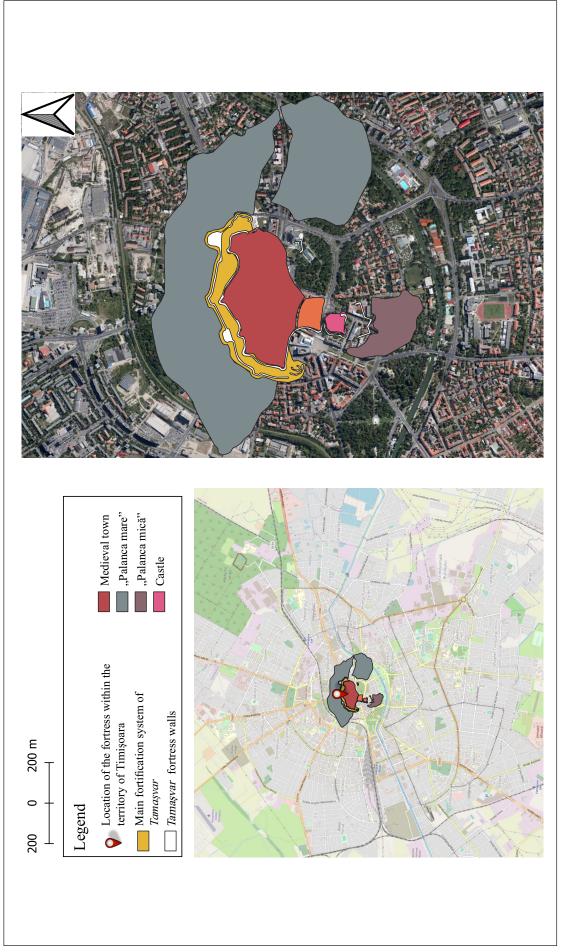




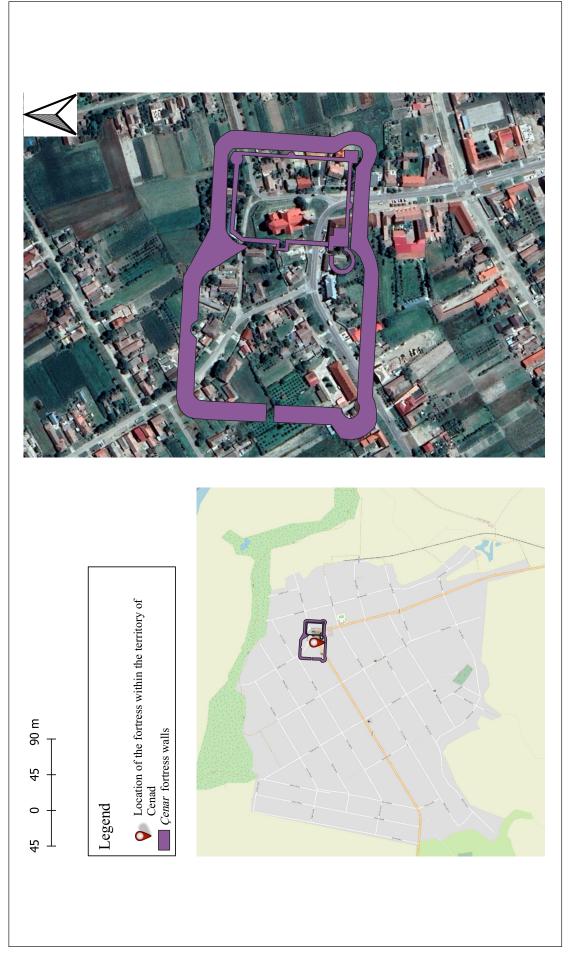


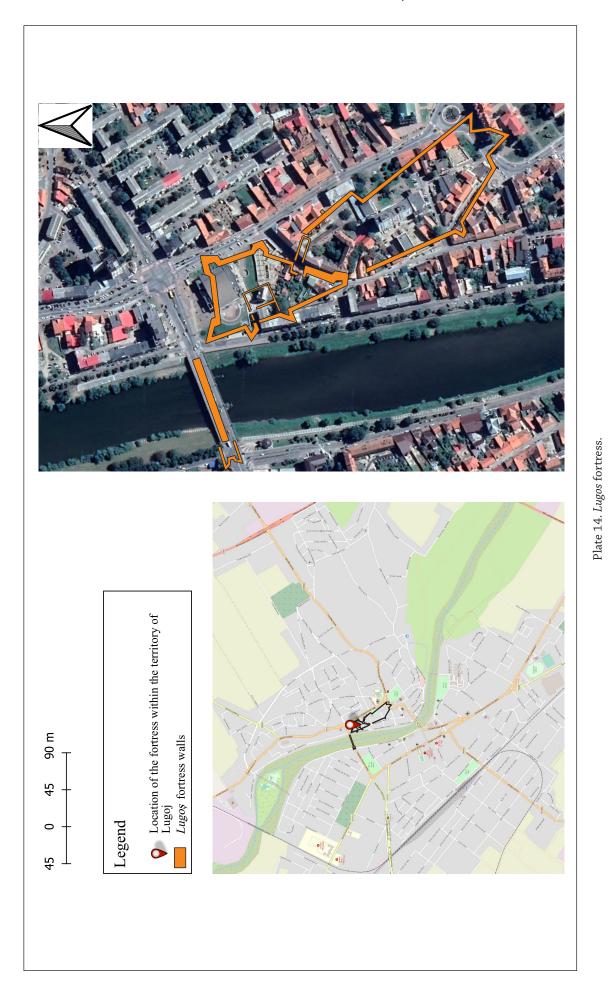
















# Abbreviations

AB	Analele Banatului, I-IV 1928–1931; S.N. I 1981-, The Museum of Banat/The National Museum of Banat, Timișoara.
АСТА	Yearbook of the Székely Museum in Csík and the Székely National Museum, Miercurea Ciuc – Sepsiszentgyörgy.
ActaArchHung	Acta Archaeologica Academiae Scentiarum Hungaricae, Budapest.
AÉ	Archaeologiai Értesitö, Budapest.
Acta Historica	Acta Universitatis Szegediensis (Szeged).
ArchHung	Archaeologia Hungarica.
ArhMed	Arheologia Medievală.
AM	Mitteilungen des Kaiserlich Deutschen Archaeologischen Instituts, Athenische
Alvi	Abteilung (Athenische Mitteilungen), Athen, (1876-).
AMM	Acta MoldaviaeMeridionalis (Vaslui).
AMN	Acta Musei Napocensis, The National History Museum of Transylvania, Cluj – Napoca.
AMP	Acta Musei Porolisensis, County History and Art Museum of Zalău.
ArhMold	Arheologia Moldovei, Iași.
BCH	Bulletin de Correspondence Hellénique, Paris, 1 (1877-).
BerRGK	Berichte der Römisch-Germanischen Kommission.Roman-Germanic
Demon	Commission. Frankfurt am Main.
EphNap	Ephemeris Napocensis, Cluj-Napoca.
CCA	Cronica Cercetărilor Arheologice din România, Ministry of Culture.
CCCA I	M. J. Vermaseren, Corpus cultus Cybelae Attidisque (CCCA), I. Asia Minor, Leiden, New York, København, Köln, 1987.
CIG	Corpus Inscriptionum Graecarum, I-IV, (ed. A. Boeckh), Berlin, 1828–1877.
CIL	Corpus Inscriptionum Latinarum, consilio et auctoritate Academiae litterarum regiae Borussicae editum. (1863-).
Dacia	Dacia. Recherches et découverts archéologiques en Roumanie, S.V. I-XII; N.S. Revue d´archéologie et d´histoire ancienne, I. 1957 și urm., Vasile Pârvan
	Institute of Archaeology, Bucharest.
DAGR	Dictionnaire des Antiquités grecques et romaines, I-X, sous la direction de Ch. Daremberg et E. Saglio, Paris, 1877–1929.
DolgSzeged	Dolgozatok a Szegedi Josef Tudomanyegyetem Archaeologiai Interzetbol (I, 1925XIX, 1943).
IGB V	Inscriptiones Graecae in Bulgaria repertae, (ed. Georgi Mihailov), vol. V: Supplementum, addenda et corrigenda. Sofia, 1997.
IGDOP	Inscriptions grecques dialectales d'Olbia du Pont, (ed. L. Dubois), Genève, 1996.
IGRR IV	Inscriptiones Graecae ad Res Romanas Pertinentes, IV (ed. G. Lafaye), Paris, 1927.
ISM I, II	Inscriptiones Scythiae Minoris – Inscripțiile din Scythia Minor, I: Histria și împrejurim- ile (ed. D. M. Pippidi), Bucharest, 1983; II: Tomis și teritoriul său, (ed. Iorgu Stoian), Bucharest, 1987.
LIMC	Lexicon Iconographicum Mythologiae Classicae, I–VIII + index vol., (eds. J. Ch. Balty, E. Berger, J. Boardman, Ph. Bruneau, F. Canciani, L. Kahil, V. Lambrinoudakis, E. Simon), Zürich, München, Düsseldorf, 1981–1999.
LSJ	Liddell H. G., Scott R., Jones H. S., A Greek-English Lexicon, with a revised supplement. Oxford, 1996.
MAA	Monumenta Avarorum Archaeologica.
ОМ	Orbis Mediaevalis.
PBF	Prähistorische Bronzefunde, München.

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RA	Revue Archéologique, Paris (1844-).
RAC	Rivista di archeologia cristiana, Rome (1924-).
RevBistr	Revista Bistritei, Bistrița-Năsăud Museum Complex, Bistrița.
RH	Revue historique, Paris, (1876-).
RIG	Recueil d'inscriptions grecques, par Ch. Michel, Bruxelles, 1900.
Sargetia	Sargetia. Acta Musei Devensis, Deva.
SCIV(A)	Studii și Cercetări de Istorie Veche, tom 1–25, Bucharest, 1950–1974; începând din 1974 (tom 25): Studii și Cercetări de Istorie Veche și Arheologie, Bucharest.
SCN	Studii și Cercetări de Numismatică, Bucharest.
SEG	Supplementum epigraphicum graecum, Lugdunum Batavorum, Leiden, 1923–1971; Alphen aan den Rijn 1979–1980; Amsterdam, 1979–2005; Boston, 2006
StCl	Studii Clasice, Bucharest.
Syll <sup>3</sup>	Sylloge inscriptionum Graecarum, (3rd edition), (ed. W. Dittenberger), 1915–1924.
Terra Sebus	Terra Sebus, Sebeș.
ThesCRA	Thesaurus Cultus et Rituum Antiquorum, I–V + index vol., (eds. J. Ch. Balty, J. Boardman, Ph. Bruneau, R. G. A. Buxton, G. Camporeale, F. Canciani, F. Graf, T. Hölscher, V. Lambrinoudakis, E. Simon), Basel, Los Angeles, (2004–2006).
UPA	Uiversitätsforchungen zur Prähistorischen Archäologie, Institut für Ur-und Frühgeschichte der Universität Kiel.
ZSA	Ziridava. Studia Archaeologica, Arad Museum, Cluj-Napoca.