

Renata Ciołek

## FINDS OF PROVINCIAL ROMAN COINAGE IN NOVAE<sup>1</sup>

**Abstract:** The article concerns finds of Roman provincial coins from the excavations of a legionary army camp carried out in Novae (Bulgaria) by the Antiquity of Southeastern Europe Research Center of the University of Warsaw. Current research is based on a set of close to 200 provincial coins from 60 years of excavations (between 1960 and 2022) in two areas of the site, the army hospital (so-called Sector IV) and the barracks of the first cohors in Sector XII. The results have by and large confirmed findings made earlier, concerning monetary circulation in the army camps on the Lower Danube, but have added information about the proportions of coinage coming from the two main minting centers from this period, Nicopolis ad Istrum and Marcianopolis, which were working from the early third century CE through the reign of Gordian III. It turns out that there is much less quantitative difference between them (a tabular presentation of the finds is included to underscore the results) and that the role of the Marcianopolis mint was greater than previously thought, a fact that was not so clear before. The growing importance of Marcianopolis coinage is attested by their number matching that of strictly Roman coins. Moreover, a coin from Ephesus proved very interesting and rare in this Danubian assemblage.

**Keywords:** Novae, provincial minting, Moesia, Nicopolis ad Istrum, Marcianopolis, Roman minting

The administrative incorporation of the territories of Moesia and Thrace (modern Bulgaria, eastern Greece and northwestern Turkey) into the Roman Empire<sup>2</sup> made the region part of the huge and complex economic machinery of the Roman state, including a developed monetary system. The process was not hurried, with the Romans gradually integrating all the territories also economically. Even so, from an economic point of view the large and highly differentiated entity that was the Empire was governed throughout by a single economic factor, namely coinage issued according to the same strict standards enforced all over the Roman world. Over the years various more or less revolutionary transformations, both official and “behind the scenes”, were introduced gradually and in more or less the same form in all the territories throughout the Empire, but one aspect never changed: the monetary economy remained, intrinsically and consistently, in Rome’s hands.<sup>3</sup>

<sup>1</sup> Study co-financed from the state budget under the program of the Minister of Education and Science (Poland) entitled “Science for Society”, project no. NdS/549 035/2022/2022, co-financing amount 1,295,867 PLN, total value of the project 1,295,867.00 PLN.

<sup>2</sup> GEROV 1983.

<sup>3</sup> See BOTEVA-BOJANOVA 1997, *passim*.

Moesia was a strategic region for Rome.<sup>4</sup> From four to five Roman legions were stationed in this short section of the Danubian limes.<sup>5</sup> One of them, the legio VIII Augusta, put up the first fortifications at Novae more or less in the mid-first century CE,<sup>6</sup> and in 69 CE was replaced there by legio I Italica.<sup>7</sup> Coinage then in circulation flooded into the region which had only recently been included in the fold, in the times of the emperor Claudius.<sup>8</sup> The system at the time was not quite unified yet, with each province showing individual characteristics. The pool of coins found at Novae during 63 years of excavations reveals many regularities that are an indication of how the region of Moesia was treated from the time of its integration into the complex Roman economic system.<sup>9</sup> Demand for “Roman” coinage snowballed at the time, triggered by the intensive building programs initiated in the new provinces, in Moesia and elsewhere, including, for example, road-building, that have had an impact on this territory ever since.

In 86, Moesia was divided into two provinces.<sup>10</sup> Novae found itself in Moesia Inferior (Lower) and from this time until the end of the second century CE the monetary circulation system in this territory closely reflected the Roman system. After that there was more diversification in different parts of the Roman state. Central-issue “bronze” coinage (from the mint of Rome) continued to dominate for a long time still, but started to be supplemented with coins struck locally ever since the reign of Septimius Severus. The snowballing production of “bronzes” in local minting centers swamped the market practically everywhere where supplies from the central mint in Rome did not meet the demand in the first half of the third century CE.<sup>11</sup> It was a period of general unrest, both internally and externally, with an economic crisis undercutting the stability of the Empire as a whole and barbarian raids crossing the border at will.<sup>12</sup> One effect was hoarding property on a mass scale, which is manifested in the archaeological record mainly by hoards of coins and valuables, for which those hiding them never returned for a variety of reasons.<sup>13</sup> These hoards have greatly contributed to a reconstruction of the monetary circulation system in Moesia. The provincial coinage, specific to each province in the Roman Empire, played a crucial role in the imperial monetary system, filling the local market demand for coins and covering soldierly payments. Provincial mints were very sensitive to political and military events. They were part of the imperial monetary system but at the same time reflected the identities of the local peoples living in the provinces.

Provincial coinage is clearly distinguished in the pool of coins coming from the excavated parts of the Novae fortress.<sup>14</sup> It is a veritable “brand” in Moesian territory.<sup>15</sup> In statistical terms, this coinage supersedes in importance central Roman issues from the time of Commodus, reaching an absolute superiority in numbers in the 210s and 220s (see Table 1).

The new pool of provincial coins from sector XII at Novae has shed even more light on monetary circulation of the first half of the third century CE.<sup>16</sup> These changes are subtle and yet significant. Together with finds from the previously excavated sector IV of the army camp at Novae, it clearly illustrates the production peak of the Moesian and Thracian mints supplying Novae with “bronze” coinage at this time.<sup>17</sup> To date, 197 provincial coins have been recorded

<sup>4</sup> POPOVIĆ 1995; MIRKOVIC 2008, with further references.

<sup>5</sup> WHATELY 2016, *passim*.

<sup>6</sup> MIRKOVIC 1998, pp. 89–98; DYCZEK 2019a, pp. 55–64.

<sup>7</sup> WHATELY 2016, pp. 12–19.

<sup>8</sup> CIOŁEK 2020 [2023].

<sup>9</sup> DIMITROV 2011; CIOŁEK, DYCZEK 2011.

<sup>10</sup> POPOVIĆ 1995.

<sup>11</sup> GUSHTERAKLIEV 2002, pp. 123–25.

<sup>12</sup> See GEROV 1952/53, pp. 26–29.

<sup>13</sup> BOLIN 1958, pp. 52–65, 178, 179.

<sup>14</sup> P. DYCZEK, “Forty Years of Excavations at Novae”, *Novenia* 14, 2003, pp. 7–20; P. DYCZEK (ed.), *Novae. Legionary Fortress and Late Antique Town*, vol. I, Warszawa 2008; P. DYCZEK, *The Lower Danube Limes in Bulgaria*, Warszawa–Vienna 2008, pp. 65–78; DYCZEK 2015, pp. 169–177; DYCZEK 2018, pp. 39–80; LEMKE 2018, pp. 74–82; DYCZEK 2019b, pp. 115–126.

<sup>15</sup> CIOŁEK 2022, pp. 51–84.

<sup>16</sup> CIOŁEK 2019, pp. 79–99.

<sup>17</sup> CIOŁEK 2022, pp. 51–84.

Table 1. Provincial minting: finds of coins from Novae sectors IV and XII (left and right side of the column, respectively) presented by mints<sup>18</sup>

Emitent	MINTS										Total
	Viminacium	Nikopolis	Hadrianopolis	Anchialos	Martianopolis	Perinthos	Dionysopolis	Tomis	Pergamon	Nicaea/Deultum	
Domitian					1						1
Marcus Aurelius		2									2
Commodus								1	1		2
Anastasis										1	1
Septimius S.	6	15	1	2	21					3	1 49
Geta		3			1					1	5
Caracalla	3	10	1	4	2	4				1	2 28
Macrinus	2	4									6
Elagabal	2	6		2	7					1E	1 2 21
Diadumenian		6		2				1			9
Alexander S.		1			5		1			1	9
Maximinus Thrax								1		1	2
Gordian III	2	4	2	3	1	2	4	1	1	1	21
Philip I										0	0
Herennia Et.	1										1
Trebonian Gallus	1										1
Trajan Decius										0	
Volusianus	1										1
Unidentified										25	13 38
<b>SUM</b>											<b>197</b>
<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>13</b>	<b>49</b>	<b>2</b>	<b>6</b>	<b>2</b>	<b>6</b>	<b>6</b>	<b>43</b>	<b>1</b>
											<b>18 68 127</b>

<sup>18</sup> Only coins discovered at Novae by the expedition from the Antiquities of Southeastern Europe Research Center of the University of Warsaw in 1960–2022.

from the site, with the new sector yielding 100% more provincial coins compared to the number of finds from the army hospital (*valetudinarium*).<sup>19</sup> After ten years of research in the new sector, this coinage group constitutes 65% of all of the coin finds from the two sectors taken together (sectors IV and XII). Intensive minting of provincial “bronzes” started in the times of Septimius Severus and lasted through the end of the reign of Gordian III. The coins of Septimius Severus are the most numerous, but those of other rulers are not significantly less in number. Coins of short-lived emperors like Macrinus (217–218)<sup>20</sup> or Diadumenianos<sup>21</sup> are just as numerous.

The Nikopolis ad Istrum mint is the most extensively represented provincial mint among the finds from Novae.<sup>22</sup> This situation appears to be constant and there is no indication that things will change with the coming of new finds, considering that sector XII has added a huge number of coins from this mint. At present there are 62 coins constituting 32% of the total of 197 recorded provincial “bronzes”. One is also entitled to assume that most of the unidentified provincial coins (see Table 1) also came from this mint. Thus, it is reasonable to say that at least half of the coins in circulation in the army camps on the Lower Danube came from Nicopolis ad Istrum.

The town of Nicopolis ad Istrum, established by Trajan,<sup>23</sup> also abounded in provincial coinage,<sup>24</sup> although the coin pool from the site demonstrates considerable variety:<sup>25</sup> not only coins from the local mint, which is to be expected considering the extent of this mint’s production, but also other mints, e.g., Marcianopolis, Phillipopolis, Anchialos, Hadrianopolis, Deultum, all of which are represented in the hoards discovered at Hotnitsa, Phelishte, Rodina, Suhindol, Gorna Rositsa and Lyaskovets. The hoards also show that the mints of Tomis, Odessus, Mesembria and Bizye, none of which have yet appeared among the finds from Novae, were also represented in Nicopolis.

What then are the “subtle” changes hinted at earlier? The new finds suggest that Marcianopolis was just as active in supplying the army camps on the Lower Danube with coins from its mint (see Table 1)<sup>26</sup> The city, which peaked in prosperity in the times of the Severan emperors (clearly indicated in Table 1), was very important for the province. Two hoards from this time were discovered within the city and six more outside of it.<sup>27</sup> Of the pool of coins found at Novae to date, 49 (that is, 25%) were issued by the Marcianopolis mint and 88% of this number come from the recent excavations. In other words, the results from Sector XII show a rising trend for the coinage of Marcianopolis (see Fig. 1, Fig. 2).

The ratio of coins from the two mints is currently 32% to 25%, highlighting the substantial position of the second of the two mints in the Lower Danubian economy of the first half of the third century CE. The same statistic for the finds from the army hospital was 20% to 9% in favor of the Nicopolis ad Istrum mint. In light of the new finds, the position of Marcianopolis has started to look better. The number of coins from this mint has grown by 88%.

The Hadrianopolis mint<sup>28</sup> is represented by eight coins (4%) and it appears that it was not very common on the Lower Danube. The other mints are present in either one or two examples with the exception of Viminacium,<sup>29</sup> which is represented by five coins (see Fig. 3), dating from Gordian III to Volusian,<sup>30</sup> making the latter the youngest provincial coins discovered at Novae. When Viminacium was producing its coins for circulation on the Lower Danube, the other provincial mints were no longer operational. As a matter of fact, when the Viminacium mint

<sup>19</sup> CIOŁEK, DYCZEK 2011.

<sup>20</sup> BOTEVA 1995, *passim*.

<sup>21</sup> Cf. BOTEVA-BOJANOVA 1997, *passim*.

<sup>22</sup> IVANOV 1983; POULTNER 1995; IVANOV 2012; TOPALILOV 2005, pp. 251–262.

<sup>23</sup> See TOPALILOV 2005, with further references.

<sup>24</sup> VLADKOVA 2020.

<sup>25</sup> MINKOVA 2002, pp. 128–131.

<sup>26</sup> GEROV 1975, pp. 49–72.

<sup>27</sup> KOWALCZYK-MIZERAKOWSKA (2025, in print).

<sup>28</sup> JURUKOVA 1987; VARBANOV 2002

<sup>29</sup> KOS 1992.

<sup>30</sup> AMNG, vol. I, pp. 21–80.

<sup>31</sup> SPASIĆ-ĐURIĆ 2002 (with further references).



Fig. 1. Bronze coin of Caracalla from Martianopolis (Inv. no. 22/22) discovered at Novae, reference: *AMNG* I 688–689, see VARBANOV 1050 (photo: Krzysztof Narloch).



Fig. 2. Bronze coin of Gordian III from Viminacium, Upper Moesia (Inv. no. 67/22) discovered at Novae, reference: VARBANOV 115 (photo: Krzysztof Narloch).

started making coins, which was in 239–255 CE,<sup>31</sup> the Thracian and Moesian operations had already ceased.<sup>32</sup>

Other mints that issued their coins for circulation in Lower Moesia in the first half of the third century CE included Anchialos (8 coins, 4%), Dionysopolis and Deultum (two coins each)

<sup>32</sup> See G. ORLOV, *Viminacijum: Emisije lokalnog novaca*, Belgrade–Požarevac 1970; F. MARTIN, “A viminaciumi tartományi verotoveinek pozicioja”, *Numizmatikai Közlöny* 1991–1992, pp. 214–217; P. KOS, “The Provincia Moesia Superior in Viminacium”, *Zeitschrift für Papyrologie und Epigraphik* (Bonn) 1992, pp. 209–214.



Fig. 3. Bronze coin of Septimius Severus from Martianopolis (Inv. no. 23/22) discovered at Novae, reference: *AMNG I* 571-2 (photo: Krzysztof Narloch).



Fig. 4. Bronze coin of Elagabalus (Inv. no. 55/22) discovered at Novae (photo: Krzysztof Narloch).

and Tomis, Nocaei, Amastris, Laodicea (one coin each). A recent find proved to be a highly interesting example of a coin from Ephesos (inv. no. 55/22, see Fig. 4), struck for Elagabalus and dated to his reign in general, that is, 218–222 CE. It bears the image of a speared boar and the legend ΕΦΕCCI-ΩΝ, which should actually read ΕΦΕCCI-ΩΝ, because the coin was struck twice doubling in effect the letter C.<sup>33</sup>

The superior numbers of coins from Nicopolis ad Istrum and Marcianopolis is not surprising in view of their proximity to the army camp at Novae. It is only natural that their issues flooded the market at Novae. The Nicopolis mint during its short operational life produced a great

<sup>33</sup> SNG COP 452. Coin identified by Tomasz Więcek. <sup>34</sup> TOPALILIOV 2005, pp. 242–250.

number of coins,<sup>34</sup> especially in the rule of the Severan emperors: Septimius Severus, Caracalla and Geta, and Elagabalus, when the mint at Rome was unable to meet the demand for bronze coinage with its own issues. The number of mints producing their own coinage throughout the Roman Empire in the reign of Septimius Severus rose to a record high of 365.<sup>35</sup>

A hoard of 46 provincial coins found a few years ago and published elsewhere<sup>36</sup> consisted for the most part of coins from the two most important Moesian mints but in a reverse proportion with 22 issues from Marcianopolis (48%) to 17 from Nicopolis ad Istrum (37%).<sup>37</sup> The hoard also included two coins each from Anchialos and Hadrianopolis and one coin each from Deultum and Dionysopolis. Interestingly, another bronze from Deultum (no other issues from this mint are known from Novae) was discovered in Sector XII near the find location of a second hoard deposited in the reign of Gordian III (238–244). In this case, too, the largest number of coins was struck for Septimius Severus (30 in all; 67%) and of these almost 40% were from Marcianopolis. The most active mint at Nicopolis ad Istrum in this case had a lesser share of just 12 coins (25%).

The mints in question were extremely sensitive to the political events taking place in the province. For instance, Elagabalus' tour of Moesia in 218 CE was marked by a relatively high number of “bronzes” from the two most important Moesian mints. The same can be said of the coins of Gordian III<sup>38</sup> as evidenced in the coin assemblage from the two excavated sectors of the army camp. In the latter case, the abundance of coinage may correspond to troops crossing the Balkans on their way to the East in 241 CE. The decline of most of the Thracian and Moesian mints in this period is also correlated with political events and linked to the specificity of the monetary system in the second half of the third century CE, namely, the rapid and definite devaluation of the silver antoninianus which made the production of “bronze” coinage hardly remunerative. For this reason, coin finds from the second half of the third century CE from the two excavated sectors consist of nothing but extremely devaluated antoniniani.<sup>39</sup>

Finds of coins from Novae from the first half of the third century CE (see Table 2) show that the demand was met at this time solely by the nearby Moesian mints of Nicopolis ad Istrum and Marcianopolis. Even keeping in mind that the research assemblage of coins is only a small part of the “living culture”, it is still beyond all doubt that coins from Nicopolis ad Istrum, followed closely by Marcianopolis, dominated the market in the army camp. The coinage that reached Novae represented what was currently in circulation in the region. This is demonstrated very well by the makeup of coin hoards from both the cities with mints, which contained examples of coins from the same mints that are represented at Novae as indicated by an analysis of coin hoards from the first half of the third century CE.<sup>40</sup> In this period soldiers were paid exclusively with provincial “bronzes”, especially as it was a time of intensive warfare generating an excessive demand for coinage. One should keep in mind that the state treasury did not hold enough silver, whereas Septimius Severus was faced with a long and bitter battle with four other pretenders to the imperial throne. He was victorious only thanks to his 15 legions, including the *legio I Italica* stationed at Novae.<sup>41</sup> The deepening crisis resulted in progressive changes in the monetary system, which resulted in turn in the growing importance of provincial minting. Three dating “horizons” have been observed for hoards from this period: the reign of Caracalla (198–217), then of Alexander

<sup>35</sup> BURSCHE 1992, p. 234, note 29.

<sup>36</sup> CIOŁEK 2019, pp. 79–98.

<sup>37</sup> CIOŁEK 2019, pp. 79–98. Pl. 5.

<sup>38</sup> MINKOVA 2002, p. 128–131.

<sup>39</sup> The original name of the new silver denomination unit is not known. The *argenteus antoninianus* is first attested in the times of Aurelian in the *Scriptores Historiae Augustae* (SHA 15,8); see W. KUBITSCHEK, “Antonini-

anus”, [in:] Pauly's Real-Encyclopaedie der Classischen Altertumswissenschaft 1893, cols 2568–2571.

<sup>40</sup> The results of this research, along with a catalogue of finds from this period, will be published in a monograph *Coinage of the Roman provinces of Moesia and Thrace. Imperial or provincial?* (publishing date 2025).

<sup>41</sup> CIOŁEK, KOLENDO 2009, pp. 225–235.

Table. 2. Finds of Roman coins from Novae legionary fortress sectors IV and XII (left and right side of the column, respectively) corresponding to the functioning of provincial mints

Issuer	Sester-tius	Dupon-dius	As	AE uniden-tified	Prov-in-cial	Dena-rius	Subae-ratus	Total	F <sup>c/r</sup>
Septimius Sever					10 6	4 1		21	1.16
Geta	1			1	2 3	1		8	<b>8</b>
Caracalla					6 10	1 1	2	20	<b>3.33</b>
Makrinus					2 3			5	<b>14</b>
Diadumenian					9			9	
Elagabal					6 13			19	<b>4.75</b>
Alexander Severus					2 5	3 2	3	15	1.15
Suma	1			1	28 49	9 4	5	<b>97</b>	<b>2.31</b>
<hr/>									
Issuer	Sester-tius	Dupon-dius	As	AE uniden-tified	Prov-in-cial	Antoninianus			F <sup>c/r</sup>
Maximinus Thrax					1			1	0.25
Gordian III					8 11			1 1	21 3.5
Phillip I	1				1			2 2	6 1.2
Trebonian Gallus					1			1 2	1
Trajan Decius					1	1	1	3	1
Volusianus					1			2 3	1.5
Valerian I					2			1 3	0.43
Gallienus					17			36 53	<b>3.53</b>
Claudius II					11			22 33	<b>16.5</b>
Aurelian					27			50 77	<b>15.4</b>
Tacitus								7 7	7
Probus					18			23 41	<b>6.84</b>
Carus					3			1 4	<b>4</b>
Cariunus					2			3 5	2.5
Diocletian					3			6 9	2.90
Maximi-anusHerkulius					1			1	
Galerius Maximianus								6 6	
Unidentified	1					13	10	24	
Total	1 1				12 12	101	<b>172</b>	<b>299</b>	4.27

Severus (222–235) and finally Gordian III (238–244). Yet the greatest number of hoards comes from the period of the most intensive barbarian raids during the reign of Phillip I (244–249) through that of Trajan Decius (245–251).<sup>42</sup> These hoards also contained many provincial coins, which had clearly ceased to be issued for the most part by the reign of Gordian III.

## Abbreviations

<i>AMNG</i>	<i>Die antiken Münzen Nord-Griechenlands</i> , ed. F. IMHOOF-BLUMER, Berlin, 1898–1913: vol. I : Dacia and Moesia.
<i>SNG Cop</i>	<i>Sylloge Nummorum Graecorum. The Royal Collection of coins and medals</i> , Danish National Museum, Copenhagen 1942–

## Bibliography

BOTEVA 1995 D. BOTEVA, “Thrake and Lower Moesia During the Reign of Macrinus (217–218 AD)”, *Thracia* 11, pp. 445–450.

BOTEVA-BOJANOVA 1997 D. BOTEVA-BOJANOVA, *Dolna Mizija i Trakija v rimskata imperska sistema (193–217/218 s. sl. Chr.)* [Lower Moesia and Thrace in the Roman Imperial System (193–217/218 AD)], St. Kliment Ohridski University Press 1997.

Božkova 1998 B. Božkova, “Gemischte Schatzfunde des 3. Jahrhunderts vom Territorium Bulgariens”, [in:] *Stephanos Numisamticos. Edith Schnert-Geiss zum 65. Geburtstag*, ed. U. PETER, Berlin, pp. 139–145.

BURSCHE 1984 A. BURSHE, „Emisje autonomiczne Mezji i Tracji oraz ich rozpowszechnienie w Europie środkowo-wschodniej” [Autonomous emissions of Moesia and Thrace and their spread in Central and Eastern Europe], *Balcanica Posnaniensis I – Mezja – Tracja – Bałkany*, Poznań, pp. 235–244.

CIOŁEK 2019 R. CIOŁEK, “Collection of 48 provincial coins from Novae (Bulgaria), Sector XII. Numismatic study”, *Novensia* 28, pp. 79–99.

CIOŁEK 2022 R. CIOŁEK, “Monetary circulation in Moesia. The Case of the Coin Finds from Novae (Bulgaria)”, *Polish Numismatic News* X, pp. 51–84.

CIOŁEK, DYCZEK 2011 R. CIOŁEK, P. DYCZEK, *Novae. Legionary Fortress and Late Antique Town, volume II: The Coins from Sector IV*. Warsaw.

CIOŁEK, KOLEND 2009 R. CIOŁEK, J. KOLEND, “*Legio I Italica on the Coins of Septimius Severus and Gallienus*”, [in:] *Novae. Legionary Fortress and Late Antique Town, vol. I: A Companion on the Study of Novae*, eds. T. DERDA, P. DYCZEK, J. KOLEND, Warsaw 2008 [2009], pp. 225–235.

DIMITROV 2011 K. DIMITROV, “Antični i rannovizantijski moneti ot sektor XI (Principia) v Nove (Dolina i Vtora Mizija)” [Ancient and early-Byzantine coins from Sector XI (Principia) in Novae (Lower Moesia and Moesia Secunda)], [in:] *Varia Thracica: Studia in honorem Mariae Čičikova*, ed. N. HRISTOVA, Sofia: Akademično Izdatelstvo, pp. 140–216.

DYCZEK 2015 P. DYCZEK, “The most splendid town of the Novesians”, [in:] *Limes XXII. Proceedings of the 22nd International Congress of Roman Frontier Studies. Ruse, Bulgaria, September 2012*, eds. L. VAGALINSKI, N. SHARANKOV, Sofia, pp. 169–177.

DYCZEK 2016 P. DYCZEK, “Amphorae from the barracks of Legio VIII Augusta and Legio I Italica in Novae”, *Rei Cretariae Romanae Fautorum Acta* 44, pp. 563–570.

<sup>42</sup> Božkova 1998, pp. 139–143.

DYCZEK 2019a

DYCZEK 2019b

GEROV 1952/53

GEROV 1975

GEROV 1983

GUŠTERAKLIEV 2002

IVANOV 1983

IVANOV 2012

JURUKOVA 1987

Kos 1992

KOWALCZYK-MIZERAKOWSKA  
2025

MINKOVA 2002

MIRKOVIĆ 1998

P. DYCZEK, "Novae – Western Sector (Section XII), 2011–2018. Preliminary report on the excavations of the Center For Research on the Antiquity of Southeastern Europe, University of Warsaw", *Novensia* 29, pp. 27–71.

P. DYCZEK, "Novae and its natural environment in the 1st c. AD and beginning of the 2nd c. AD", [in:] *Salve, Edvarde! A Toast to the Jubilee of Professor E. Kreković* (= *Studia Archaeologica et Medievalia* 12), eds. J. MELLNEROVÁ-ŠUTEKOVÁ, M. BAĆA, P. PAVUK, pp. 55–64.

P. DYCZEK, "Discovering the history of the VIII Augusta legion in Novae", [in:] *Visy 75. Artificem commendat opus. Studia in honorem Zsolt Visy*, eds. G. I. FARKAS, R. NEMENYI, M. SZABÓ, Pécs, pp. 115–126.

B. GEROV, "Romanizmat među Dunava i Balkana ot Hadrian do Konstantin Veliki", [Romanism between the Danube and the Balkans from Hadrian to Constantine the Great], *Godišnik na Sofijskija Univeritet, Filologičeski Fakultet* 48, No. 778.

B. GEROV, "Marcjanopolis im Lichte der historischen Angaben und der archäologischen, epigraphischen und numismatischen Materialien und Forschungen", *Studia Balcanica* 10, pp. 49–72.

B. GEROV, "Aspekte des Grund- und Bodenbesitzes im römischen Thrakien und Moesien (1–3 Jh.)", [in:] *Ancient Bulgaria : papers presented to the International Symposium on the Ancient History and Archaeology of Bulgaria*, ed. A. G. POULTER University of Nottingham, pp. 1–10.

R. GUŠTERAKLIEV, "Moneti na Nikopolis ad Istrum v nahodka Malinovo i v nahodkite ot Severna Bulgarija [Coins of Nicopolis ad Istrum in The Malinovo Hoard and in Hoards from Northern Bulgaria]", [in:] Rimskijat i kăsnoantičnijat grad. Meždunarodna Naučna Konferencija (Veliko Tărnovo 26–30 juli 2000) [The Roman and late Roman city. The International Conference (Veliko Tarnovo 26–30 July 2000)], ed. L. SLOKOSKA *et alli*, Sofia, pp. 123–127.

T. IVANOV, "The Roman cities of Moesia and Thrace (modern Bulgaria)" [in:] *Papaer presented to the International Symposium on the Ancient History and Archaeology, University of Nottingham 1981, part 2*, ed. A. G. POULTER, Nottingham, pp. 129–154.

T. IVANOV, "Nicopolis ad Haemum / Nicopolis ad Istrum", [in:] *Roman Cities in Bulgaria, vol. I*, ed. R. IVANOV, Sofia 2012, pp. 109–153.

Y. JURUKOVA, *Monetosečeneto na gradovete v Dolna Mizija i Trakija II–III v.: Hadrianopol* [The Coinage of the Towns in Moesia Inferior and Thrace, 2<sup>nd</sup>–3<sup>rd</sup> centuries AD: Hadrianopolis], Sophia.

P. Kos, "The Provincia Moesia Superior in Viminacium", *Zeitschrift für Papyrologie und Epigraphik*, Bonn, pp. 209–214.

I. KOWALCZYK-MIZERAKOWSKA, "Finds of coins from the 3rd–4th centuries in the context of ancient cities of Bulgaria", [in:] *Coinage of the Roman provinces of Moesia and Thrace. Imperial or provincial?* ed. R. Ciołek (in print).

M. MINKOVA, "Some Remarks on the circulation and the coinage of Nicopolis ad Istrum in light of specimens from the Historical Museum in Stara Zagora", [in:] Rimskijat i kăsnoantičnijat grad. Meždunarodna Naučna Konferencija (Veliko Tărnovo 26–30 juli 2000) [The Roman and late Roman city. The International Conference (Veliko Tarnovo 26–30 July 2000)], ed. L. SLOKOSKA *et alli*, Sofia, pp. 128–133.

M. MIRKOVIĆ, "The legio VIII Augusta in the Balkans", *Novensia* 10, pp. 89–98.

MIRKOVIĆ 2008 M. MIRKOVIĆ, “Die Anfänge der Provinz Moesia”, [in:] *Die römisches Provinzen : Begriff und Gründung (Colloquium Cluj-Napoca, 28. September – 1. Oktober 2006)*, ed. I. PISO, Cluj, pp. 207–224.

POPOVIĆ 1995 I. POPOVIĆ, “Upper Moesia at the End of the Third Century on the Basis of Archaeological Finds”, [in:] *The age of Tetrarchs: a symposium held from the 4th to the 9th October 1993*, ed. D. SREJOVIĆ, Belgrade, pp. 252–261.

VLADKOVA 2020 P. VLADKOVA, “Nicopolis ad Istrum: za tārgovijata i pazarite v rimska grad” [Nicopolis ad Istrum: for the markets and markets in the Roman city], [in:] *Carissimae magistrae grato animo : sbornik v pamet na prof. Jordanka Jurukova*, ed. M. DOTKOVA, Sofija, pp. 393–406.

POULTER 1995 A. POULTER, *Nicopolis ad Istrum. A Roman, Late Roman, Early Byzantine City*. London.

SPASIĆ-ĐURIĆ 2002 D. SPASIĆ-ĐURIĆ, Viminacijum: glavni grad rimske provincije Gornje Mezije [Viminacium: the capital of the Roman province of Upper Moesia], Požarevac.

TOPALILOV 2005 I. TOPALILOV, “Ulpia Nicopolis ad Istrum and Claudia Leucas: two examples with drawn peregrine city-titles”, [in:] *Proceedings of the 10th International Congress of Thracology*, ed. A. IAKOVIDOU, Athens, pp. 250–262.

VARBANOV 2002 I. VARBANOV, *Gradski imperatorski moneti i tekhnite stoinosti: katalog* [Greek imperial coins and their values: catalogue], Burgas.

WHATALY 2016 C. WHATALY, *Exercitus Moesiae. The Roman Army in Moesia from Augustus to Severus Alexander*, BAR International Series 2825.

Renata Ciołek  
 Faculty of Archaeology  
 University of Warsaw  
 renataciolek@uw.edu.pl  
 orcid.org/0000-0002-1001-0726