COINS FROM EXCAVATIONS AT THE «T-4» SECTOR IN OLBIA

Coins are published from the latest excavations at «T-4» sector, laid in 2018 in the Terrace City of Olbia. The presented numismatic material covers all the main chronological periods of the polis existence.

Keywords: Olbia, sector «T-4», coins, dolphin-shaped coins, borysthenes coins, Byzantium, Amis, Istria.

In 2018, in the Terrace City of Olbia, in order to resume the search for the theater, a new excavation site «T-4» was laid (fig. 1). Director from the Ukrainian side — D. Sc. in History A. V. Buiskykh, from the German — prof. J. Fornasier. Head of the excavation sector — Ph. D in History I. M. Sheiko. Its presence is assumed due to the decrees of the Hellenistic time in honor of Callinicos (IOSPE I 25), Anthesterion (Vinogradov 1984, p. 75), and the sons of Apollonius (HO 28), which contain the mention of the Olbian θέατρον.

The search for the theater was carried out by A. N. Karasev in the late 1950s (prospecting trench to the east of excavation «E», Western Trade Row), and under the head of S. D. Kryzhitskyi in the late 1980s and early 1990s (excavations «T», «T-1», «T-2», «T-3»). These works can be united due to a small area of research and their location in different places of the Terrace City, the natural micro-relief of which suggests the construction of a theatron.

The results of the research at excavations «T» and «T-1» (headed by V. V. Nazarov) were the discovery of the redeposited massifs of soil displaced from the territory of the Upper City and the slope (as a result of a landslide?), mixed with a subsoil clay. At excavation «T-2» (headed by V. I. Nazarchuk), a room of the II—III c. AD was partially discovered, most likely, of economic purposes. At excavation «T-3» (headed by V. I. Nazarchuk), a rich dwelling with a courtyard and a cistern, located along the perimeter premises, including an andron, with basements, as well as a street with a retaining wall of the terrace, were discovered. Under the floor of one of the basements, a part of a residential building of the end of the VI c. BC was revealed.

In 2017, within the framework of an international Ukrainian-German project, a method of geophysical research was successfully tested, which made it possible to identify a new defensive system that enclosed the suburban area from the field, and numerous residential, religious and economic structures of the suburb, as well as to prove their presence by archaeological means.

Moreover, the entire cup of the Terrace City was explored from the north to the south using ground-penetrating radar IDS DETECTOR DUO with dual frequency 250—700 MHz antenna (IDS Georadar s. r. l.). The exploration was carried out in fifteen bands, 40—60 m long, each of which showed the presence of abnormalities. Conventionally, these exploration bands were combined into three blocks: F1, F2, and F3. The main number of abnormalities had clear rectangular elongated outlines, which, when decrypted, were attributed as walls, mainly retaining walls of terraces.

Of greatest interest are the results obtained at the bands of the F2 block, where abnormalities at the depth of 2.7—3.6 m have distinct curvatures with a bend to the west, which presumably resembles the contours of a theatron, which con-
sisted of sectors with the seats of the ancient theatre. In this place, to check these anomalies, it was decided to lay a search excavation, named according to the tradition, like all similar excavation attempts to find the theatre in the Terrace City, «T-4».

Due to the terraced location of the site, the archaeological material found in the cultural strata of the slope is often mixed. The excavation area is currently 60 m². The depth from the level of the modern day surface from the western side is 4.5 m. The stratigraphy of the «T-4» site includes five strata: the upper humus layer, the yellow-ashy layer, the gray-ashy layer, and the gray-ashy layer with yellow-clay inclusions (fig. 2). The depth of the layers has significant differences towards the southern part of the excavation.

Excavations at the «T-4» sector over three seasons of research have provided abundant numismatic material, which is published in this article. The total number of coins found is 154. Among them, 34 coins cannot be precisely defined due to poor preservation. The Appendix includes the most decent coins in the amount of 91 items. Half of the found coins are casted dolphin-shaped coins — 77 items.

**Fig. 1.** The «T-4» site in the terraced part of Olbia. View from the south

**Fig. 2.** The «T-4» sector in 2020. View from the north-east
Fig. 3. Plan of the "T-4" sector
Archaic and Classical periods. Researchers are unison in opinions about the appearance of dolphin-shaped coins — from the second half of the VI c. BC (Зограф 1951, с. 121—124; Харко 1964, с. 321—323; Карышковский 1988, с. 34—35; Анохин 1989, с. 8—9), however, views on the duration of their usage as monetary items vary from the V c. BC (Карышковский 1988, с. 37; Золотарьов 1997, с. 143) until the middle of the IV c. BC (Зограф 1951, с. 124; Харко 1964, с. 323), and until the end of this century (Анохин 1989, с. 10).

In order to clarify their dating, casted dolphin-shaped coins were repeatedly undergone classifications (Зограф 1951, с. 121—124; Харко 1964, с. 323—330; Чистов 2019, р. 99—107), in which stylistic features of coins and their weight became the determinative ones. Other points of view state that the proposed classifications are artificial, and the stratigraphic method remains the main one in their dating (Золотарьов 1997, с. 142—143).

In 2018—2019 at the western side of the excavation sector «T-4» (фиг. 3), in quadrat No. 226, in a gray-ash layer overlapped by a yellow clay adobe massif, among small and medium limestone quarries and collapses of pottery, an accumulation of bronze finds was revealed: dolphin-shaped coins in the amount of 26 items (фиг. 3: 8—10, 17—26; 4: 27, 39—42), fragments of fibulae, and five arrowheads. A total of 48 items were recorded.

The period of wide distribution of dolphin-shaped coins falls on the V c. BC, which finds confirmation in the form of dating the material found along with this accumulation of coins, namely: Protothasos, Thasos, Lesbos and Knidos amphorae, black-glazed Attic dishes, as well as bronze three-bladed arrowheads that are dated by the V—IV c. BC.

It should be noted that fragments of mosaic floors made of multi-colored pebbles found in the filling of this building at the level of the bottom of its northern masonry make it possible to consider the investigated part of this room, in which a hoard of dolphin-shaped coins was found, as a separate closed complex in this area.

The representative sample contains several main types of dolphin-shaped coins (фиг. 6), which confirm the point of view of their synchronous existence. The absence of casted arrow-shaped coins in this hoard confirms the diachronic feature of these emission groups (for more details see: Рубан 1982, с. 15—20; Чистов 2019, р. 101). Epigraphic dolphin-shaped coins with the inscription ΘΥ (фиг. 5: 31, 42), one of which comes from the hoard, belong to the third group of these coins (Харко 1964, с. 326—329), and is dated by the V c. BC (Зограф 1951, с. 121—124; Харко 1964, с. 326—329; Карышковский 1988, с. 35).

The coins found in Olbia with the image of a wheel on the obverse and the inscription ΙΣΤ on the reverse originate from Istria (Карышковский 1960, с. 138—140), and are dated by the V—IV c. BC (Загинайло 1991, с. 57—59; Секерская, Булатович 2010, с. 28). The wheel from the excavations of the «T-4» sector (фиг. 7: 49), judging by its size, belongs to the second subgroup of these coins according to А. Н. Загинайло (Загинайло 1991, с. 58).

The classical period in Olbia is completed by early issues of coins depicting Demeter and an eagle on a dolphin (фиг. 7: 50—59), as well as Tyche in a tower crown, and a kneeling archer (фиг. 7: 60—61), which are dated by 380—350 BC (Анохин 1989, с. 31—32; Карышковский 2003, с. 179—180) 1.

The coin of the city of Byzantium found at the «T-4» site is dated by the same time. Its obverse depicts the front part of a bull on a dolphin, and on the reverse — a tripod between two dolphins (фиг. 7: 62). It is dated by 387—340 BC 2. (SNG IX. 14—20). About the trade relations between Olbia and Byzantium in the IV c. BC is evidenced by the Olbian inscription in honor of the Byzantine citizen Deloptych, the son of Meniscus, to whom the Olbian citizens granted a proxeny, the right of citizenship, and exemption from duties on all goods (HO 9). The Byzantium coin, located on the European coast of the Bosphorus, can be attributed to a rare numismatic find in Olbia, which confirms the existence of economic contacts between these cities.

Hellenistic period. From the second half of the IV c. BC casted coins in Olbia are supplanted by minted ones. Coins of the Hellenistic period from the excavations at the «T-4» sector are presented by small denominations with the image of Demeter or Apollo, and the city emblem — an eagle on a dolphin (фиг. 7: 63—72; 8: 82), Apollo with a kneeling archer (фиг. 8: 78—79), and Olbian coins — borysthenes (фиг. 8: 73—77). Some coins with the image of Apollo have sprues (фиг. 7: 64), which testify to the collective production of coins 3.

In addition to the dolphin-shaped coins, which appear in Olbia and its associated territory in unbelievably high quantities, there is another genus of Olbian monetary objects, which already attract attention through their sheer quantity. These are strikingly small, low-weight coins made of copper or copper alloy, which often weigh less than one gram and reach a length diameter of approx. 0.8 cm. It is important to differentiate between

1. Another point of view about Demeter / archer coins, dated by the last third of the IV c. BC — the time of the Zopirion campaign in Olbia, see: Снегов, Турковский 2000, с. 400—401; Столба 2015, р. 49—50.
2. Found among ceramic materials of the V—III c. BC (Буйских и др. 2020, c. 16), together with coins of the IV c. BC (фиг. 7: 55).
3. On the casting technique, the casting of circles and the mintage of Olbian coins, see: Карышковский 1999, c. 27—29.
two minting phases, which can be clearly separated both chronologically and in terms of the images used. While the early series are dated by the first half of the IV c. BC and show Demeter in profile on the front side and a dolphin and an ear of corn on the reverse (Anokhin 2011, p. 44—45, fig. 215—218; Reuter 2021, s. 6), the later miniature coins are dated between 330 and 320 BC and show Apollo in profile on the obverse, while the dolphin on the reverse is accompanied either by a bow and arrow or a single grain, depending on the interpretation (Anokhin 2011, p. 58—59, fig. 4.

Fig. 4. Casted dolphin-shaped coins from the excavation site «T-4» in Olbia
fig. 284). Common to both embossing phases, however, is the inscription of the Olbian settle-
ment on the lapel. Together with their larger counterparts, which also show the goddess of agriculture on the ob-
verse, while the reverse shows the symbol of an
eagle with a dolphin in its claws, a picture which is significant for Olbia, the early small coins with Demeter as well as the ear of corn and dolphin, initiate a change within the Olbian monetary system (Reuter 2021, s. 12). While all objects of Olbian origin with monetary function had previously been created by casting, which included both the so-called dolphin-shaped or fish-shaped money and the large and small asses (Anokhin 2011, p. 30—43), their successors of the IV c. BC are continuously minted. The only exception to this is the series of large asses with a goddess en face, probably Demeter on the obverse and an eagle with a dolphin on the reverse, which, after a long

Fig. 6. Diagram of the groups distribution of dolphin-shaped coins from the excavation site «T-4»

Fig. 7. Olbian coins of the Classical and Hellenistic periods from the excavation site «T-4» in Olbia
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hiatus of such large coins made of copper alloy in Olbia, were minted around the middle of the IV c. BC (Anokhin 2011, p. 46—53, fig. 233—243).

In addition, the pictorial programme also changes in comparison to the V c. BC, although with the constant reference to the dolphin there is at least one constant. However, if the dolphin appears very prominently in the form of the dolphin-shaped money, it now plays a much smaller role be it already on the big asses or later on the minted copper coins of the IV c. BC, now appearing only on the reverse of the individual coin series, whether it is in the claws of a sea eagle or, as on the small coins, accompanied by an ear of corn or a single grain.

Remarkable within the new pictorial programme of copper coins of the IV c. BC, which includes both the small currency and the somewhat larger and heavier coin series, is the turning towards Demeter as the most prominent deity on the obverse sides as well as the clear reference to their sphere of influence, here however limited to the small coins, in the form of ears of grain. Possibly this can be explained by the revival of the Olbian Chora and the accompanying revival of the agricultural sector in about the same period, which was one of the most significant economic factors in Olbia during the entire IV c. BC (Kryzhitsky et. al. 1989, p. 96—152; Fornasier 2016, s. 103—105), which was promoted, among other things, by Athens’ enormous demand for grain: since Attica was not able to supply its entire population with sufficient grain through its own agricultural sector, Athens was dependent on imports, which it obtained mainly from the Northern Black Sea region (Braund 2007, p. 51—64; Moreno 2007, p. 69). This also affected Olbia, which obviously benefited economically from the Athens’ need for grain and now resumed its own grain production after a longer hiatus during the V c. BC, which is clearly demonstrated by the cessation of settlement activity within its Chora.

Fig. 8. Olbian coins of the Hellenistic and Roman periods from the excavation site «T-4» in Olbia
of the V or beginning of the IV c. BC in the form of Olbia, which was not only territorial, but also political and economic, and which was intended to ensure a previously unknown uniformity of the polis. Thus, towards the end of the V or the beginning of the IV c. BC, the so-called suburb was completely abandoned (Fornasier 2017, p. 48), its inhabitants will probably have settled in the settlements of the Chora or within the redesigned urban space. Apparently at the beginning, but definitely during the first half of the IV c. BC, this area was surrounded by an extensive city wall, which included the main plateau, i.e. the Olbian centre, the Lower City including the harbor on the banks of the Buh River, as well as also populated Terrace City between the plateau and the Lower City, in which the sector «T-4» relevant here is also located (fig. 1). It is possible that this reorganization of the polis, which apparently encompassed its entire territory, was accompanied by a general restructuring of Olbia, which was not only territorial, but also political and economic, and which was intended to ensure a previously unknown uniformity of the polis. The coins of the IV c. BC could also be usefully placed in this context, as they were characterized by a turn towards minted images, which both unified and facilitated their mass production, as well as by an accompanying uniform image programme. Moreover, this development in the Olbian monetary system chronologically goes hand in hand with the territorial changes of Olbia and seems to refer to them in terms of content — after all, they obviously show a direct reference to the resurrected agricultural sector. In addition, the coins of the IV c. BC, again concerning both the small currency and their larger counterparts, already at the beginning mostly show the inscribed reference to Olbia, which is also a novelty and underlines the official character of the minting of coins during the IV c. BC, whereas this was largely missing from the monetary objects of the V c. BC. Thus, the small coinage or, more generally, the coins minted in Olbia in the IV c. BC could also reflect the apparent new consolidation of the Olbian polis at the end of the V or beginning of the IV c. BC in the form of a specific type of object of Olbian origin, which could be an indicator that this reorganization was not only spatially reflected, but also affected the political and economic structures of Olbia.

A total of 42 monetary objects can be identified as Olbian small coins of the IV c. BC at the «T-4» sector during the campaigns of 2018—2020. However, it should be noted that in most cases it is difficult to catalogue the coins precisely, as their state of preservation often makes an exact identification difficult or even impossible. Nevertheless, due to the already described peculiarities — the mentioned small dimensions as well as the use of copper alloy for the production — their affiliation to the Olbian small coins can at least be addressed as objects of the IV c. BC with Olbian origin, even if an exact allocation is not possible.

Finally, it is worth mentioning a peculiarity of the Olbian small coins, which makes them stand out in comparison with other Greek poleis during the IV c. BC. Basically, most Greek cities already minted primarily silver coins at the end of the VI c. or at the beginning of the V c. BC, which were mostly based on a Greek weight standard. The two larger neighboring poleis of Olbia, Istria and Panticapaeum, also minted silver coins as early as the beginning of the V c. BC (Stingl 2005, s. 120—121). Coins made of copper or copper alloy usually appear much later, mainly from the second half of the IV c. BC onwards, but they are then usually much heavier and larger than the Olbian small coins. Thus, this genus of Olbian money makes it difficult to draw an analogy with the coins of other Greek poleis at the same time, both inside and outside the Northern Black Sea area. Only the cast «wheel» coins from Istria can be compared in function and dimensions with the Olbian coins (Anokhin 2011, p. 42—43, N 188), but they remain the absolute exception. This leads to the conclusion that the Olbian coinage had a small function change at a very early stage, since the purchase value or material value of the Olbian coins is not expected to be particularly high. There is a clear difference here to the silver coinage of the other Greek cities at the same time, which, due to their material and weight, were probably used for larger transactions, for example for foreign trade or in exchange for larger quantities of goods, while for smaller transactions barter was probably still used. This may already have been replaced, or at least complemented on a large scale, by the introduction of the small copper currency in Olbia. This may have been derived from the usage of arrowhead-shaped money (Anokhin 2011, p. 30—31, N 153) or, in Olbia and its territory, from the dolphin-shaped coins, which, in view of the material used and the, at least in part, also quite low weight, probably fulfilled a function quite comparable to the Olbian small coins and were later, after the reorganization of the polis, successively replaced by them. Thus, Olbia can probably be described...
as one of the cradles of change as in small coinage not in changing something, maybe small currency would be better.

Since the last third of the IV c. BC in Olbia, coins are issued with the image of the river deity Borysthenes. The borysthenes coins found at the «T-4» site — well-preserved — have trims: Φ, AP, EY, AH (fig. 8: 73, 75—77), belong to the groups I-a, II-c, V-c, VII, allocated by P. O. Karyshkovskyi (Карышковский 2003, с. 168—174), and cover the entire chronological period of their existence — from 330 to 230 BC (Appendix). The differences between them lie both in the weight category and in stylistic features. Thus, in a specimen of the first group (fig. 8: 73), the ear of the river deity is covered with large locks of hair, the horn is turned forward, a nose and an eye are monolithically merged with the general profile. On coins of other groups, with the trims AP, EY and AH (fig. 8: 74, 76, 77), the image of Borysthenes conveys thin curling locks of hair that do not cover the ear, with a well-defined earlap. Beard curls are marked in the same way. The nose, lips and eyes are highlighted with separate underlined lines. Coin weights also vary between the larger categories in the first and last groups, and the smaller denominations in the middle groups.

A coin with the head of Artemis on the obverse, and a bow on the reverse, with the inscription BΣE (fig. 8: 81), which is an abbreviation for Ὅμηρος — the official name of the Olbian «king», a priest for life elected (Зограф 1951, с. 134), dated by 180—170 BC (Карышковский 1988, с. 97; 2003, с. 189; Анокин 1989, с. 50—51), and belongs to a series of coins that supplanted out of circulation earlier copper with numerous countermarks.

The latest specimens of coins of the pre-Getic period of Olbia are represented by coins of the Asia Minor city of Amis (fig. 8: 83—84, 87), which are dated by the end of the II — first half of the I c. BC (Wroth 1889, р. 17, 19, No. 40—43, 69—71, pl. III: 5; IV: 1; Зограф 1940, с. 293). Their appearance is associated with the inclusion of Olbia in the Pontic kingdom of Mithridates VI Eupator (Россштедт 1907, с. 21—27; IOSPE F 35), in particular with the deployment of a Pontic garrison in the city (Виноградов 1989, с. 254—258; Крапивина, Диатроптов 2005, с. 69; Макаров 2005, с. 241), or the resettlement to the Olbian region of the suburb inhabitants of Sinope Armea (Кебелен 1940, с. 293—299), who brought with them coins of the Pontic kingdom cities (Зограф 1940, c. 299) 1.

According to P. O. Karyshkovskyi, among the coins of Amis, the most numerous tetrachalks with the image of the Ares head in a helmet and a sword in a sheath belong to the third chronological group of coins of Pontus and Paphlagonia in Olbia, and are dated by 111—105 BC (Карышковский 2003, с. 249). The fourth chronological group of these coins includes tetrachalks with the image of the Aegis with the Gorgon’s head on the obverse, and the walking Nike on the reverse, presented in one item at the «T-4» site (fig. 8: 87) with the dating 105—90 BC (Карышковский 2003, с. 249), or 85—65 BC (SNIX II 1177—1191). The total number of coins of the city of Amis in Olbia, taking into account the latest research in the southeastern part of the Upper City, should already be in the hundreds of coins.

To the first two decades of the I c. BC there can be included the following coins: with the head of Apollo on the obverse, and a quiver between the stars on the reverse (fig. 8: 85), as well as with the image of a dolphin and a star between the caps of the Dioscuri on the obverse, and a tripod on the reverse (fig. 8: 86). Thus, these items complete the numismatic series of coins from the excavations of the «T-4» sector, which belongs to the stage before the Getan devastation of Olbia, which took place in the middle of this century.

**Roman period.** Coins of the Roman period found at the «T-4» are represented by the earliest and latest urban numismatic monuments of post-Getan Olbia. So, in the process of research, two copper coins were found with the head of Zeus in a dotted circular rim on the obverse, and the image of an eagle with outstretched wings, the ΠA monogram and the inscription ΟΛΒΙΟΙ ΠΟΛΕΙΤΩΝ on the reverse (fig. 8: 88, 89). One of them on the head of Zeus has a countermark in the shape of a caduceus. According to P. O. Karyshkovskyi, they belong to the third and fourth series of coins of the Zeus / eagle type, and are dated by the mid 50 — early 60s of the I. c. AD (Карышковский 1982, с. 19; 2003, с. 194, табл. XXiv: 5—15). According to V. A. Anokhin, who starts from the so-called Olbian era (Анохин 1971), their dating varies within the end of 40 — early 50s AD (Анохин 1989, с. 63—64).

Olbian dupondius with the head of Apollo and the inscription ΟΛΒΙΟΠΟΙ on the obverse, and Apollo with a round bowl and a bow in his hands, and the inscription ΔΑΔΟC CATY on the reverse (fig. 8: 90) is dated by 180—192 AD (Карышковский 1988, с. 123; Анохин 1989, с. 73). The inscription on the reverse is compared with the name of Dada, the son of Satyr, known from the Olbian epigraphy (IOSPE F 281), during archonanatos of whose this coin emission was issued.

In 2019, an excavation extension was carried out in the northern part of the «T-4» site, in which materials from the I—III c. AD were revealed. In it, at a depth of 1.25 m from the level of the modern day surface, the tressis of Julia Mamaea (222—235 AD) of the Olbian coinage, with the image of the head of the empress on the obverse to the right, and the goddess Tyche with a steering oar and a cornucopia on the reverse, was disco-

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1. The latter version was later criticized (for more details see: Виноградов 1989, с. 254—255).
To conclude, at this stage of research, the numismatic material from the excavations at the «T-4» site in Olbia are dated from the second half of the VI c. BC, and until the end of the Olbian coinage in the second third of the III c. AD, that is, cover all the main chronological periods of Olbia’s existence.

APPENDIX

COINS FOUND IN OLBLIA AT THE «T-4» SECTOR DURING 2018—2020
(NO DOLPHIN-SHAPED COINS)

49. (Inv. N O-2018/T-4/377). Copper coin, obverse: wheel; reverse: IZT. Dating: V—IV c. BC. Weight: 1.19 g. Diameter: 12 mm. Place of coinage: Istria. Zaginvalo 1991, s. 57—59.

50. (Inv. N O-2020/T-4/143). Copper coin, obverse: head of Demeter to the right; reverse: eagle on the dolphin to the left, OΛBIO from above. Dating: ca. 380—360 BC. Weight: 8.46 g. Diameter: 19 mm. Place of coinage: Olbia. Similar to Anokhin 1989, 2011, N 199—213.

51. (Inv. N O-2018/T-4/834). Copper coin, obverse: head of Demeter to the right; reverse: eagle on the dolphin, ΩΛΒΙΟ from above. Dating: ca. 380—360 BC. Weight: 0.52 g. Diameter: 8 mm. Place of coinage: Olbia. Anokhin 1989, N 58; 2011, N 218.

52. (Inv. N O-2018/T-4/1405). Copper coin, obverse: head of Demeter to the right; reverse: eagle on the dolphin to the right, HPEΥOF at the bottom (retrograde). Dating: ca. 380—360 BC. Weight: 2.09 g. Diameter: 17 mm. Place of coinage: Olbia. Anokhin 1989, N 42.

53. (Inv. N O-2019/T-4/790). Copper coin, obverse: head of Demeter to the left; reverse: eagle on the dolphin to the left, OΛBΙΟ from above. Dating: ca. 380—360 BC. Weight: 1.9 g. Diameter: 15 mm. Place of coinage: Olbia. Anokhin 2011, N 192.

54. (Inv. N O-2019/T-4/791). Copper coin, obverse: head of Demeter to the right; reverse: eagle on the dolphin to the right, OΒΙΟ at the bottom. Dating: ca. 380—360 BC. Weight: 3.8 g. Diameter: 17 mm. Place of coinage: Olbia. Anokhin 1989, N 30; 2011, N 200, 213.

55. (Inv. N O-2019/T-4/1197). Copper coin, obverse: head of Demeter to the right; reverse: eagle on the dolphin to the right, OΒΙΟ from above. Dating: ca. 380—360 BC. Weight: 1.8 g. Diameter: 15 mm. Place of coinage: Olbia. Anokhin 1989, N 30; 2011, N 200, 213.

56. (Inv. N O-2020/T-4/68). Copper coin, obverse: head of Demeter to the right; reverse: dolphin to the right, OΛΒΙΟ from above. Dating: ca. 380—360 BC. Weight: 1.07 g. Diameter: 13 mm. Place of coinage: Olbia. Anokhin 1989, N 48.

57. (Inv. N O-2020/T-4/743). Copper coin, obverse: head of Demeter to the right; reverse: eagle on the dol-
70 (Inv. N O-2019/T-4/477). Copper coin, obverse: head of Demeter to the left; reverse: eagle on the dolphin to the left, OΛBΙΟ at the bottom. Dating: ca. 320—325 BC. Weight: 1.7 g. Diameter: 13 mm. Place of coinage: Olbia. Anokhin 1989, N 99, 100; 2011, N 271, 272.

71 (Inv. N O-2019/T-4/1351). Copper coin, obverse: head of Apollo to the right; reverse: eagle on the dolphin to the left, bow and grain from above, OΛBΙΟ at the bottom. Dating: ca. 325—320 BC. Weight: 0.8 g. Diameter: 9 mm. Place of coinage: Olbia. Anokhin 1989, N 119; 2011, N 284.

72 (Inv. N O-2018/T-4/1433). Copper coin, obverse: head of Demeter to the right; reverse: eagle on the dolphin to the left, ear of corn, OΛBΙΟ at the bottom. Dating: ca. 320—315 BC. Weight: 0.42 g. Diameter: 7.1 mm. Place of coinage: Olbia. Anokhin 1989, N 118.

73 (Inv. N O-2018/T-4/1430). Copper coin, borrysthenes, obverse: head of Borrysthenes to the left; reverse: OΛBΙΟ, quiver, ceremonial ax, Φ at the bottom. Dating: ca. 330—300 BC. Weight: 8.32 g. Diameter: 20.4 mm. Place of coinage: Olbia. Karyshkovskiy 2003, p. 168—174.

74 (Inv. N O-2019/T-4/144). Copper coin, borrysthenes, obverse: head of Borrysthenes to the left; reverse: quiver, ceremonial ax, OΛBΙΟ on the right. Dating: 330—230 BC. Weight: 3.34 g. Diameter: 18 mm. Place of coinage: Olbia. Karyshkovskiy 2003, p. 168—174.

75 (Inv. N O-2019/T-4/868). Copper coin, borrysthenes, obverse: head of Borrysthenes to the left; reverse: quiver, ceremonial ax, OΛBΙΟ on the right, AP on the left. Dating: ca. 290—250 BC. Weight: 2.26 g. Diameter: 19 mm. Place of coinage: Olbia. Karyshkovskiy 2003, p. 168—174.

76 (Inv. N O-2019/T-4/142). Copper coin, borrysthenes, obverse: head of Borrysthenes to the left; reverse: quiver, ceremonial ax, OΛBΙΟ on the right, ΕΥ on the left. Dating: ca. 280—250 BC. Weight: 7.15 g. Diameter: 20 mm. Place of coinage: Olbia. Karyshkovskiy 2003, p. 168—174.

77 (Inv. N O-2020/T-4/869). Copper coin, borrysthenes, obverse: head of Borrysthenes to the left; reverse: quiver, ceremonial ax, OΛBΙΟ on the right, ΑΗ on the left. Dating: ca. 240—230 BC. Weight: 7.85 g. Diameter: 20 mm. Place of coinage: Olbia. Karyshkovskiy 2003, p. 168—174.

78 (Inv. N O-2019/T-4/432). Copper coin, obverse: head of Apollo to the right; reverse: bent archer to the left. Dating: 260—250 BC. Weight: 2.7 g. Diameter: 15 mm. Place of coinage: Olbia. Anokhin 1989, N 233; 2011, N 406.

79 (Inv. N O-2020/T-4/783). Copper coin, obverse: head of Apollo to the right; reverse: bent archer to the left. Dating: 270—260 BC. Weight: 0.51 g. Diameter: 8 mm. Place of coinage: Olbia. Anokhin 2011, N 405—407.

80 (Inv. N O-2020/T-4/681). Copper coin, obverse: head of Heracles (?) to the right; reverse: cudgel, OΛBΙΟ at the bottom. Dating: ca. 200—190 BC. Weight: 0.47 g. Diameter: 8 mm. Place of coinage: Olbia. Frolowa, Abramzon 2005, pl. 90: 1—4.

81 (Inv. N O-2019/T-4/785). Copper coin, obverse: head of Artemis to the left; reverse: quiver, ΒΕΕ at the bottom. Dating: 180—170 BC. Weight: 3.4 g. Diameter: 12 mm. Place of coinage: Olbia. Anokhin 2011, N 488.

82 (Inv. N O-2018/T-4/470). Copper coin, obverse: head of Apollo to the right; reverse: eagle on the dolphin to the right, OΛBΙО at the bottom. Dating: ca. 170—160 BC. Weight: 5.30 g. Diameter: 26 mm. Place of coinage: Olbia. Anokhin 1989, N 310.

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COINS FROM THE EXCAVATIONS AT THE «T-4» SITE IN OLBIA

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Coins from the excavations of the «T-4» site in 2018—2020, located in the Terrace City of Olbia, are introduced into scientific circulation. The total number of coins found during three years of research is 154 items, half of which are dolphin-shaped coins. These include a treasure of coins and bronze items, which, in particular, contained 26 cast dolphin-shaped coins. The coin in the shape of a «wheel» from the West Pontic city of Istria also belongs to the Classical period. Coins of the Hellenistic era from the excavations at the «T-4» sector are represented by denominations with images of Apollo, Demeter and the eagle on a dolphin, Tyche in a crown in the shape of a tower and an archer, and borysthenes coins. Among the numismatic monuments of this time is a rare coin of the city of Byzantium of the IV c. BC, which confirms the evidence of the Olbian inscription (HO 9) on trade contacts between these cities during the Hellenistic period.

The latest coins of the pre-Getae Olbia are represented by coins of the Asia Minor city of Amis, which are dated by the end of the II — the first half of the I c. BC. These are tetradrachms with images of the Ares head in a helmet and a sword in sheath, and Aegis with the localization of the Pontic garrison in Olbia.

Coins of Roman times are represented by Olbian assarius such as Zeus / eagle of the middle of the I c. AD, dupondius of the second half of the I c. AD and a tressis depicting the Roman Emperor Julia Mamaea, which belongs to the last series of monetary units of the Olbian autonomous minting. In general, the available numismatic material from the excavations of the «T-4» site is dated from the second half of the VI c. BC, and until the cessation of currency in the second third of the III c. AD, i.e. covers all major chronological periods of existence of Olbian polis.

Keywords: Olbia, «T-4» site, dolphin-shaped coins, borysthenes coins, Byzantium, Amis, Istria.
МОНЕТИ З РОЗКОПОК ДІЛЯНКИ «Т-4» В ОЛЬВІЇ

До наукового обігу вводяться монети з розкопок ділянки «Т-4», закладеної в Терасній частині Ольвії в 2018 р. Загальна кількість знайдених монет за три роки досліджень становить 154 одиниці, половину з яких складають монети-дельфіни. До них належить і скарб монет та бронзових виробів, у якому, зокрема, містилося 26 литих фігураних монет-дельфінів. До класичного часу також належить монета у вигляді колеса з Західно-Понтійського міста Істрія. Монети елліністичного часу з розкопок ділянки «Т-4» представлені номіналами з зображеннями Аполлона, Деметри та орла на дельфіні, Тюхе в короні у вигляді башти і лучником, та монетами-борисфенами. Серед нумізматичних пам’яток цього часу виокремлюється рідка монета IV ст. до н. е., яка підтверджує свідчення ольвійського напису (НО 9) про торгівельні контакти між цими містами в елліністичний період.

Найбільш пізні екземпляри монет догетської Ольвії представлені монетами малоазійського міста Аміс, які датуються кін. II ст. до н. е. Це — тетрахалки з зображеннями голови Ареса в шоломі та меча в піхвах, та Егіди з головою Горгони та Ніки. Їх поява в Ольвії пов’язана з включенням міста до складу Понтійської держави Мітрідата VI. Ольвія вступила в германські згадки, які передбачають згадку Луціана на монетах періоду місце."}

Ключові слова: Ольвія, ділянка «Т-4», монети-дельфіни, монети-борисфені, Візантія, Аміс, Істрія.

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НО — Надписи Ольвії

IOSPE — Inscriptiones antiquae orae septentrionalis Ponti Euxini Graecae et Latinae

SNG — Sylloge Nummorum Graecorum