

**Mykhailo Orlyk, Yevhenii Kolesnichenko**

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## **THE FINDS OF CAST OLBIAN COINS OF THE SIXTH-FOURTH CENTURIES BEYOND THE BORDERS OF OLBIAN CHORA**

**ABSTRACT** The article analyses 92 finds of Olbian cast coins of the archaic period and forms their chronological and geographical catalogue. The study calls into question the thesis of some scholars about the lack of participation of Olbian coins in monetary circulation outside Olbia and its chora. In our opinion, Olbian coins, starting from the end of the 6th century BC, could be actively used in the exchange of goods with barbarian tribes, a vivid proof of which was the cumulative finds of “Dolphin” coins in the middle Podniprovia and in the Dniester Estuary area. Also, an important proof of the use of Olbian coins in trade operations with the population of the Ukrainian Forest-Steppe and Steppe of the Scythian period is the presence in the same regions of cast obol finds of various types and denominations, which may indicate a certain stability of trade routes.

**Keywords:** coins, Dnieper, Dniester estuary, Dolphin, Medusa Gorgon, Olbia, hoard, cumulative finds

**ABSTRAKT** W artykule zaprezentowano analizę 92 znalezisk odlewanych monet olbijskich, zarejestrowanych poza Olbią. W opinii Autorów znaleziska te mogą sugerować, iż monety takie mogły być wykorzystywane także poza Olbią.

The beginning of monetary circulation in the North-Western Black Sea region is closely connected with the formation of the Greek cities: Olbia, Nikonion, Kerkitis and the chora around these cities. At the initial stage of the Olbian development, the role of change money, according to many researchers, was performed by so called “arrowheads-money” and “dolphins” and then they were replaced by cast copper obols and their smaller denominations. The question naturally arises of whether this Greek colony could carry out trade with neighbouring barbarian tribes using this money, considering the absence of precious metals in these coins’ composition. It should be clarified whether those coins performed the function of money outside the polis and chora? Answer to this question could be provided by studying the topography of Olbian cast coins beyond the borders of Olbian chora.

The importance of studying coin finds, their topography and determining regional features is one of the priorities of modern researchers.<sup>1</sup> The

study of the problem of ancient coins distribution outside the policies of the North-Western Black Sea region is contained in the works of the scholars P. Karishkovskiy,<sup>2</sup> M. Mielczarek,<sup>3</sup> V. Orlyk,<sup>4</sup> V. Pivorovich<sup>5</sup> and others. However, the commodity-money relations of Olbia with the barbarian tribes in the archaic period were considered by scientists rather fluently, or even completely denied. A significant groundwork concerning distribution of Olbian coins beyond the borders of Olbian chora was made by Pivorovich, who described antique coin finds of the North-Western Black Sea region that were known to him in the work devoted to the cumulative finds of the South of Ukraine. His work meaningfully contributed to a better understanding of spreading Olbian coins to the east of Olbia to the territory of the modern Kherson region. In turn, Professor P. Karyshkovsky assumed that Olbia did

<sup>1</sup> Pyzyk 2021

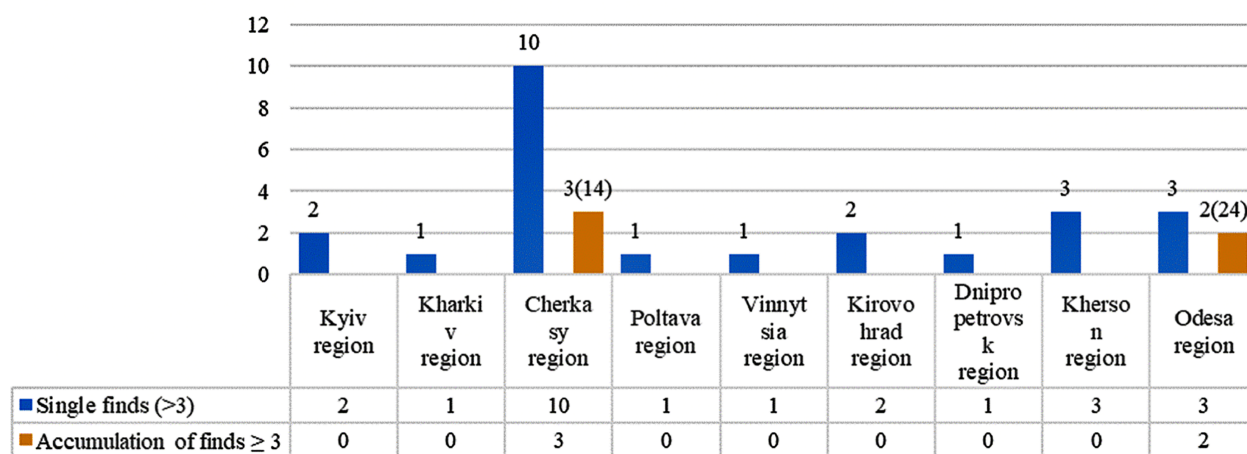
<sup>2</sup> Karyshkovskiy 1988

<sup>3</sup> Mielczarek 1989; Mielczarek & Orlyk 2019.

<sup>4</sup> Orlyk 2021 a; Orlyk 2021 b; Orlyk & Orlyk 2020; Orlyk, Kotsur & Tsyganenko 2019.

<sup>5</sup> Pivorovich 2009

Table 1. Finds of “dolphins” beyond the borders of Olbian chora



not use money in trade relations with the Scythian tribes but carried out an exclusively natural exchange during the period under our study. We fully agree with the author regarding the period of 6th century BC. Arrownaies-money certainly found no significant distribution beyond the borders of Olbian chora, and only two finds among analyzed by us arrownaies-money can be linked to Olbia with a sufficient level of confidence. Regarding the later period of the end of 6th century BC, our study calls into question the validity of this thesis, since we analyzed at least 9 regions of Ukraine, where have been found cast cooper coins at different times.

To solve the above-mentioned issues, the authors have compiled catalogue and a map of these coin finds in the south of the modern Ukraine. In general, we analysed 92 finds, which was found both during archaeological excavations and during field works, and others.

According to many scholars, the earliest types of local money in the North-Western and Western Black Sea coasts that could be used by Greek colonists as a payment instrument were the so-called arrownaies-money. Arrownaies-money belongs to the earliest primitive money. They were used by the Greek colonists in Milesian apoikia of Apollonia Pontica, Histria and Berezan. The finds of arrownaies-money were, accordingly, known on the territory of Bulgaria, Romania, and Ukraine mostly within chora of Milesian apokia. However, sometimes they are found beyond them. It is known about 3 such finds, particularly at least 2 of arrownaies-money were in Kherson district of Kherson region, particularly in the village Sahy on the territory of Oleshky Sands National Nature Park»,<sup>6</sup>

а також однієї в с. Рибальче Голопристанського району Херсонської області. and one coin find was in the village Rybalche of Hola Prystan district, of Kherson region.

A more unambiguous stage of economic development and coinage of the then Olbia, in the context of the involvement of Scythian and other barbarian tribes to Olbian coins circulation, was the period of the end of 6th -beginning of 4th centuries BC, when so called “dolphins” began to play the role of a small change. Widespread distribution of these coins and large trade relations with northern to Olbia tribes are evidenced by cumulative finds and single finds on the territory of modern Kyiv, Kharkiv, Cherkasy, Poltava, Vinnitsia, Kirovohrad, Dnipropetrovsk, Mykolaiv (beyond the borders of Olbian chora) and Kherson region.

As shown in Table 1, the finds of “dolphins” on the territory of Podniprovia are uneven. Coins of this type are especially widespread in modern territory of Cherkasy region; it was found at least 25 “dolphins” around Tiasmyn river and its tributaries. Characteristic feature is that major part of the coins is concentrated in a rather small area, which is approximately 230 km<sup>2</sup> (Fig. 2).

In our opinion, this accumulation of coins of the end of 6th-beginning of 4th centuries BC indicates that the inhabitants of the region probably had trade relations with Greek merchants. Considering, the existence of clusters of dolphins finds in addition to single finds in this region, we can assume that trade routes were relatively stable, which in turn, could contribute to the creation of certain reserves (accumulation) of these means of exchange by local Scythian inhabitants for the future trade operations with the Greeks.

It was found at a minimum 2 dolphins in Kirovohrad region near the village of Ivanivka of

<sup>6</sup> Pivorovich 2009: 29.





Fig. 1. Finds of arrownaies-money of the end of the 6th-beginning of 5<sup>th</sup> centuries B.C.

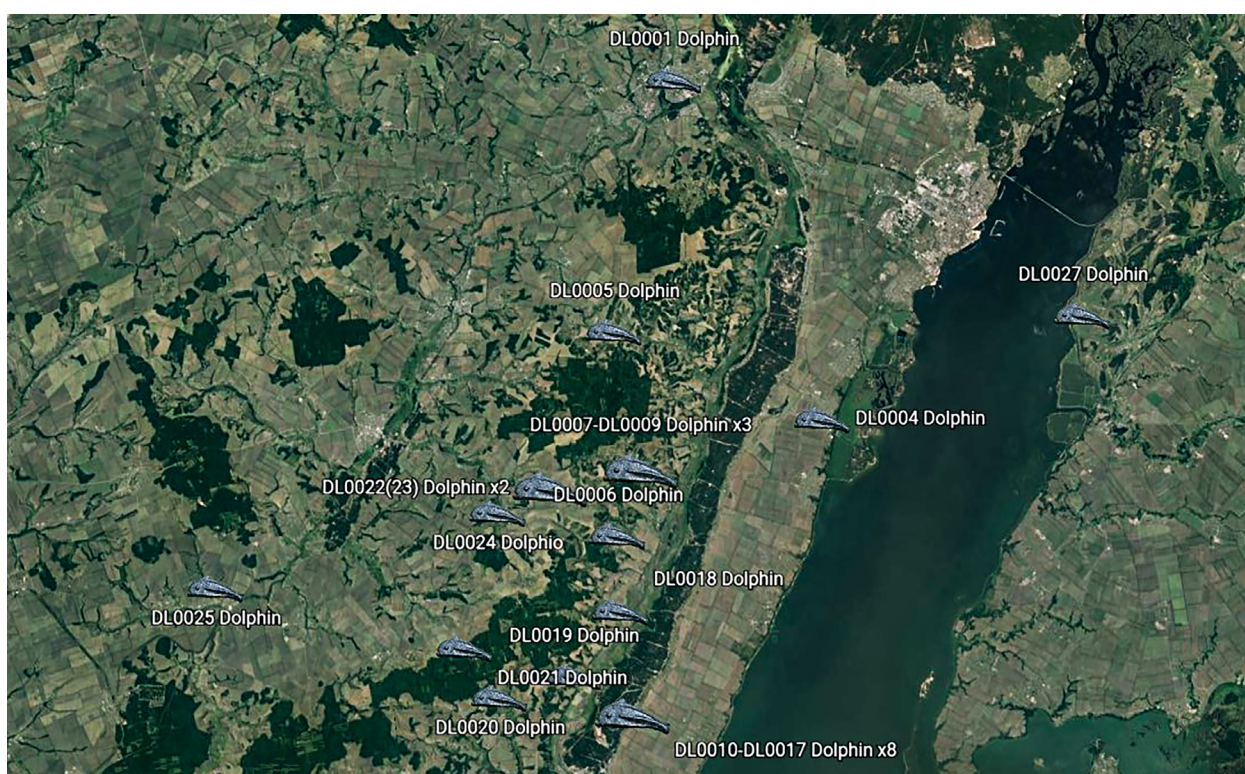


Fig. 2. Finds of the end of 6th- beginning of 4th century B.C. in the Tyasmin river basin

Oleksandrivka settlement hromada and between villages Lisove and Mykhailivka of the mentioned hromada. A single find of dolphin was presented in Vinnytsia region on the right bank of the Southern Bug River, near the village of Dzhulynka, Bershad district. There is a find of a dolphin near the village of Kapulivka of Dnipropetrovsk region. Beyond the borders of Olbian chora near Mykolaiv region it was found at least 2 dolphins near the village of Marjivka, Domanivka district and southwards from the urban-type settlement Veselynove, Veselynove district. There were known at least 3 places with single finds in Odessa region namely they are localized near the urban-type settlement Moloda

Hvardiia and Zhevakhova Mount of Odessa district and near city Izmail of Izmail district on the bank of the Danube River. The accumulation of the coin finds of Olbian dolphins recorded in the village Roksolany (anique Nikonion), particularly, during archaeological excavations in 1964-1988 years was found 12 coins.<sup>7</sup> During 1989-2010 years no new finds of such coins were recorded in Nikonion.<sup>8</sup>

<sup>7</sup> Anokhin V.A. 1989: 75.

<sup>8</sup> Sekerskaya & Bulatovich 2010: 29



Single coin find was also detected on the Left Bank of the Dnieper. The dolphin was found in city Poltava and in village Murafa, Krasnokutsk district, Kharkiv region (Fig. 3).



Fig. 3. The dolphin found near the village of Murafa, Krasnokutsk district, Kharkiv region

A more recent period of the numismatic Olbian heritage is represented by dolphin coins with inscription APIXO and OY on the flat side. Two dolphin coins with APIXO were discovered near the villages of Ostriv and Syniava, Bila Tserkva district, Kyiv region. A single find of APIXO dolphin is known in the Dnipropetrovsk region to the southwest of from the village of Marianske, Apostolove district. The complex of APIXO dolphins, at least 12 dolphins of this type, was discovered in the early 2000s in the Odesa region, near the village of Nadlymanske in the Odesa district. One dolphin of this type was found during archaeological excavations in the village Roksolany (antique Nikonion).<sup>9</sup>

The Dnieper Left Bank, in the context of the (finds) of APIXO and OY dolphins is represented by the Kherson region. Specifically, these finds were recorded in the village of Ivanivka, Hola Prystan district, where it was found an APIXO dolphin (Fig. 4), and it was found OY dolphin in village Oleksandrivka of Kherson district.



Fig. 4. Dolphin APIXO in the village Ivanivka, Hola Prystan district, Kherson region (Photo was provided by Aliksieienko Serhii)

A significant place in the understanding of the economic relations of the Greeks with the forest-steppe and steppe inhabitants of the Scythian times on the territory of modern Ukraine is occupied by coins of large denominations such as obols and denominations derived from them. We used

the approach of N. Frolova and M. Abramzon<sup>10</sup> to identify the denominations. The usage of “As” term for Olbian cast coins of the 5th-4th centuries BC we consider as incorrect. A rare obol with head of Athena in profile turned to the left on the obverse and with a wheel on the reverse was found in village Heroiske, Hola Prystan district, Kherson region.



Fig. 5. Obol Head of Athena in Attic helmet (v. Heroiske, Hola Prystan district, Kherson region)

However, similar coins were also distributed in regions more distant from the Olbian polis. Specifically, it was found 1/3 obol of the 5th century BC with weight 39.6 g, depicting ancient Greek goddess Athena to left on the obverse and description Π-A-Y-Σ between four spokes of the wheel on reverse (Fig. 6) on the territory of the modern Korsun-Shevchenkivskyi district of Cherkasy region in 2015. In Tarashcha district of Kyiv region there was found cast Olbian coin of the later period with the weight 12g (1/8 obol), 437-410 BC with Gorgoneion obverse and letters A-P-I-X between four spokes of the wheel on reverse.



Fig. 6. 1/3 Obol Head of Athena in Attic helmet (the territory of the modern Korsun-Shevchenkivskyi district of Cherkasy region)

<sup>9</sup> Anokhin V.A. 1989: 75.

<sup>10</sup> To identify the denominations of round cast coins of Olbia we used approach of N. Frolova and M. Abramzon (Frolova & Abramzon 2005)



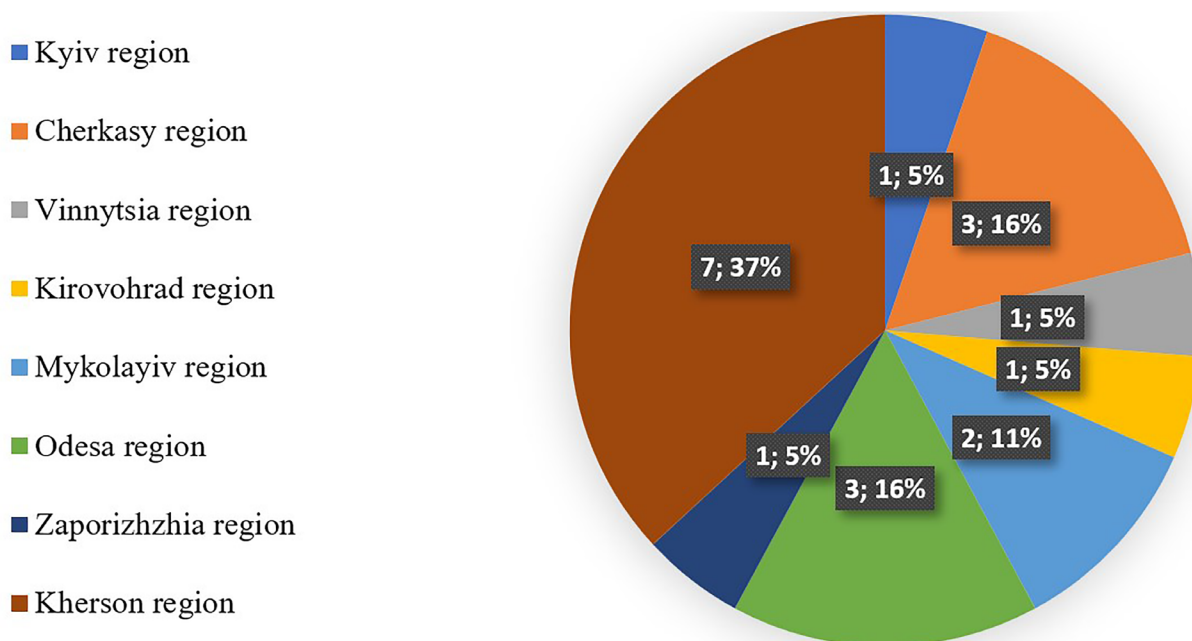


Fig. 7. The structure of the analysed coins of 440-380 years BC, which were discovered beyond the borders of Olbian chora (pieces)

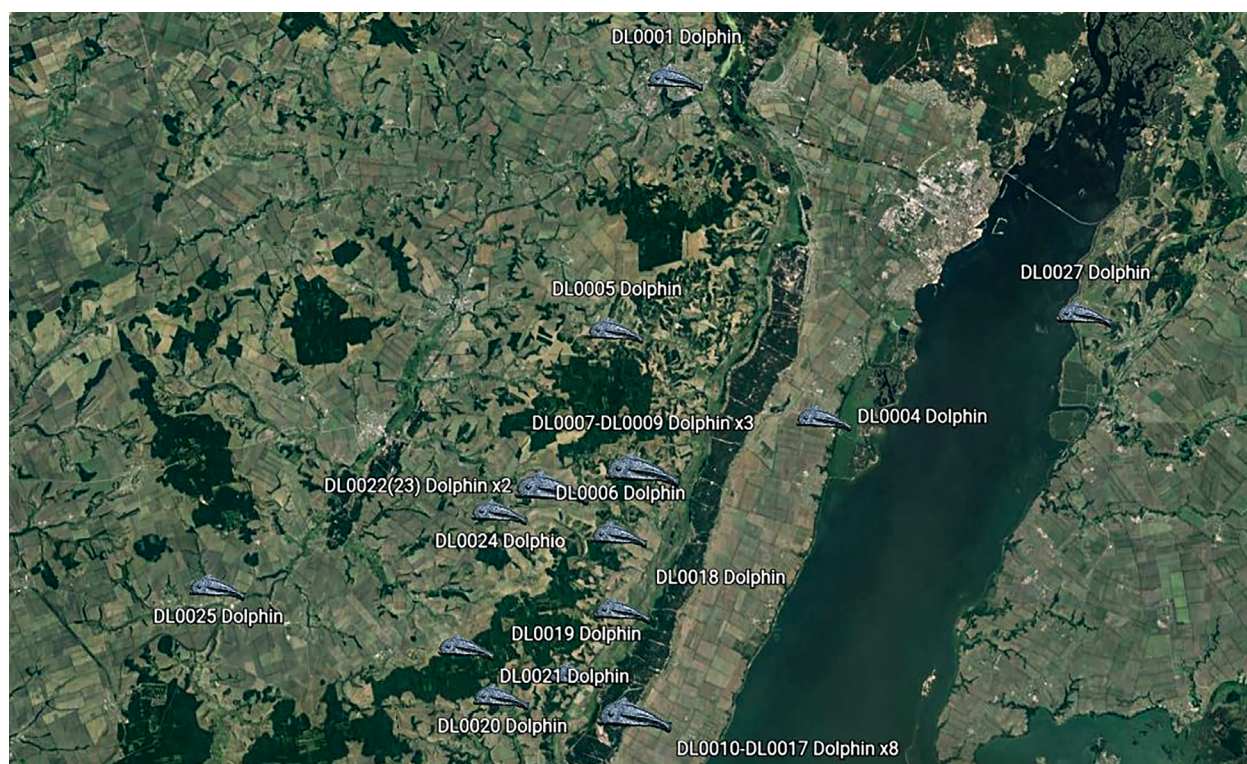


Fig. 8. Distribution of coins 440-380 years BC beyond the borders of Olbian chora on the map

Significant distribution of Olbia coins on the territory of the Dnieper Forest-Steppe and steppe took place around 440-380 BC. Coins of different value depicting Medusa Gorgon minted in this period were discovered in Kyiv, Cherkasy, Kirovohrad, Vinnytsia, Dnipropetrovsk, Mykolaiv (beyond the borders of Olbian chora) Odessa and Kherson regions (Fig. 7, 8).

The map shows trends in the expansion of coins with the Gorgon of various denominations along large rivers, the spreading of such coins along the Dnieper River and its tributaries is especially noticeable. Typical is also a significant increase in the number of coins finds of the specified period in the Kherson region, as well as the fact that such coins are found nearby the settlements

near the Dnieper. All of that may be indicative of the meaningful logistic artery role of the Dnieper, which it played in trade of Greeks with barbarian tribes to the north from the polis.



Fig. 9. 1/4 obol found near the village of Novovorontsovka, Beryslav district, Kherson region (Photo: Tretiakova. Y)



Fig. 10. 1/4 obol discovered in the village Velyka Znamyanka, Vasylkiv district, Zaporizhzhia region (Photo: Tretiakova. Y.)

A coin of the same type was found on the opposite left bank of the Dnieper River in the village Velyka Znamyanka, Vasylkiv district, Zaporizhzhia region (Fig. 10)

Trade with other Greek colonies and settlements also played an important role in the monetary circulation of the northern Black Sea coast. In that way, cast Olbian coins both with Athena and Gorgon of various denomination are identified during excavations of other ancient Greek poleis. Thus, for instance, it was discovered 1/3 obol Athena/Wheel<sup>11</sup> near the village of Roksolany (antique city Nikonion), and nearby Nikonion it was detected 1/2 obol Gorgon-Eagle on the dolphin during field works.

The study of archaic cast Olbian coins beyond the borders of Olbian chora conducted by us, proves that 6th-4th centuries BC was not only the time of active trade cooperation of Greek colonists both with the local population of the Scythian era and with other Greek colonies and settlements, but it was the time of monetary and trade relations. This is evidenced by numerous finds of archaic cast Olbian coins almost throughout modern Ukraine, especially by the presence of regions with the accumulation of such finds at a considerable distance from the Olbian chora. It should also be noted that the discovery of coins of large denominations, such as obol, and denominations derived from it can potentially indicate an increase in the intensity of turnover with the tribes of the Scythian era.

### CATALOGUE OF CAST ATIQUE COIN FINDS OF 6<sup>TH</sup>-4<sup>TH</sup> CENTURIES B.C. BEYOND THE BORDERS OF THE OLBIA CHORA

No.	id	Catalogue	Time	Published	Diameter / Weight	Place and time of found
1	AR0001	<b>Olbia, AE</b> "Arrow Coin"	6th century B.C.	Pivorovich 2009	unknown	Heroyske village, Holoprystan district, Kherson region, 2003
2	AR0002	<b>Olbia, AE</b> "Arrow Coin"	6th century B.C.	Pivorovich 2009	unknown	Rybalche village, Holoprystan district, Kherson region, 2004
3	AR0003	<b>Olbia, AE</b> "Arrow Coin"	6th century B.C.	Pivorovich 2009	4,19 g.	Saga village of Tsyurupynsky district. Kherson region
4	AR0004	<b>Olbia, AE</b> "Arrow Coin"	6th century B.C.	Pivorovich 2009	4,62 g.	Oleshkiv Sands National Nature Park, Oleshkiv District Kherson region

<sup>11</sup> Sekerskaya, Bulatovich 2010: 27-38.



5	DL0001	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2015	unknown	Smila, Cherkasy district, Cherkasy region
6	DL0002	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Not published	2,9g. 47 mm.	Shpolyanskyi district Cherkasy region
7	DL0003	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Not published	2,7g. 31 mm.	Shpolyanskyi district Cherkasy region
8	DL0004	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2015	unknown	Khudyaky village, Leskivska village OTG, Cherkasy district, Cherkasy region
9	DL0005	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Skoryy & Zimovets 2014	unknown	Jabotyn village, Tarasova Krynchka tract, Mykhailivska village OTG, Cherkasy district, Cherkasy region, 2009
10	DL0006	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2007	unknown	Ivkiivtsi village, Cherkasy district, Cherkasy region
11	DL0007	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2007	unknown	Melnyky village, Medvedivska village OTG, Cherkasy district, Cherkasy region, 2003
12	DL0008	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2007	unknown	Melnyky village, Medvedivska village OTG, Cherkasy district, Cherkasy region, 2003
13	DL0009	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2007	unknown	Melnyky village, Medvedivska village OTG, Cherkasy district, Cherkasy region, 2004
14	DL0010	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2015	unknown	Rozsoshintsi village, Cherkasy district, Cherkasy region, 2011
15	DL0011	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2015	unknown	Rozsoshintsi village, Cherkasy district, Cherkasy region, 2011
16	DL0012	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2015	unknown	Rozsoshintsi village, Cherkasy district, Cherkasy region, 2011
17	DL0013	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2015	unknown	Rozsoshintsi village, Cherkasy district, Cherkasy region, 2011
18	DL0014	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2015	unknown	Rozsoshintsi village, Cherkasy district, Cherkasy region, 2011

19	DL0015	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2015	unknown	Rozsoshintsi village, Cherkasy district, Cherkasy region, 2011
20	DL0016	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2015	unknown	Rozsoshintsi village, Cherkasy district, Cherkasy region, 2011
21	DL0017	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2015	unknown	Rozsoshintsi village, Cherkasy district, Cherkasy region, 2011
22	DL0018	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2015	unknown	Novoselytsia village, Cherkasy district, Cherkasy region
23	DL0019	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2015	unknown	Subotiv village, Cherkasy district, Cherkasy region
24	DL0020	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2015	unknown	with. Ivanivka, Cherkasy district, Cherkasy region
25	DL0021	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Shostopal 2015	unknown	with. Beetroot, Cherkasy district, Cherkasy region
26	DL0022	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Orlyk 2021	unknown	Between the villages of Golykivka, Cherkasy district, Cherkasy region. and Poselyanivka, Kropyvnytskyi district, Kirovohrad region
27	DL0023	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Orlyk 2021	unknown	Between the villages of Golykivka, Cherkasy district, Cherkasy region. and Poselyanivka, Kropyvnytskyi district, Kirovohrad region
28	DL0024	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Orlyk 2014; Skoryy & Zimovets 2014	unknown 35 mm.	Ivanivka village, Kropyvnytskyi district, Kirovohrad region, 2012
29	DL0025	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Orlyk 2021	unknown	Mykhailivka village, Kropyvnytskyi district, Kirovohrad region
30	DL0026	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Bakalets, Shapirinsky, Trigger & Lesko 2021	4 g, length – 24 mm, width – 8 mm.	Bar district, near the river Riv – tributaries of the Southern Bug (exact location is unknown) 2020



31	DL0027	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Губочкін	unknown	Chekhivka, Chornobayiv district. Cherkasy region
32	DL0028	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Suprunenko & Puholovok 2014	unknown, 20 mm	Navrotskoho Street, 5, Poltava, Poltava region 2014
33	DL0029	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Not published	unknown	Murafa village, Bohodukhivskyi district Kharkiv region
34	DL0030	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Not published	unknown	Kapulivka, Nikopol, district, Dnipropetrovsk region 2006
35	DL0031	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Not published	unknown	Young Guard Ovidiopol district, region Odessa
36	DL0032	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Not published	unknown	Zhevakhova mountain, near Odessa
37	DL0033	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Sekerskaya & Bulatovich 2010	unknown	Nikoni, Ovidiopol district, Odessa region, 1964-1988
38	DL0034	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Sekerskaya & Bulatovich 2010	unknown	Nikoni, Ovidiopol district, Odessa region, 1964-1988
39	DL0035	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Sekerskaya & Bulatovich 2010	unknown	Nikoni, Ovidiopol district, Odessa region, 1964-1988
40	DL0036	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Sekerskaya & Bulatovich 2010	unknown	Nikoni, Ovidiopol district, Odessa region, 1964-1988
41	DL0037	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Sekerskaya & Bulatovich 2010	unknown	Nikoni, Ovidiopol district, Odessa region, 1964-1988
42	DL0038	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Sekerskaya & Bulatovich 2010	unknown	Nikoni, Ovidiopol district, Odessa region, 1964-1988
43	DL0039	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Sekerskaya & Bulatovich 2010	unknown	Nikoni, Ovidiopol district, Odessa region, 1964-1988
44	DL0040	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Sekerskaya & Bulatovich 2010	unknown	Nikoni, Ovidiopol district, Odessa region, 1964-1988

45	DL0041	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Sekerskaya & Bulatovich 2010	unknown	Nikoni, Ovidiopol district, Odessa region, 1964-1988
46	DL0042	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Sekerskaya & Bulatovich 2010	unknown	Nikoni, Ovidiopol district, Odessa region, 1964-1988
47	DL0043	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Sekerskaya & Bulatovich 2010	unknown	Nikoni, Ovidiopol district, Odessa region, 1964-1988
48	DL0044	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Sekerskaya & Bulatovich 2010	unknown	Nikoni, Ovidiopol district, Odessa region, 1964-1988
49	DL0045	<b>Olbia, AE</b> “dolphin”	The end of the 6th - beginning of the 4th century. B.C.	Not published	unknown	Down the Danube downstream from Izmail, Izmail district. Odessa region
50	DL0046	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	2,8 g	Shpolyanskyi district Cherkasy region
51	DL0047	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Near the village Sinyava Rokytnyanskyi district Kyiv region
52	DL0048	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Near the village Rokytnia district Kyiv region
53	DL0049	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Near the village Nadlymanske Ovidiopol district of Odessa region, in the early 2000s
54	DL0050	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Near the village Nadlymanske Ovidiopol district of Odessa region, in the early 2000s
55	DL0051	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Near the village Nadlymanske Ovidiopol district of Odessa region, in the early 2000s



56	DL0052	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Near the village Nadlymanske Ovidiopol district of Odessa region, in the early 2000s
57	DL0053	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Near the village Nadlymanske Ovidiopol district of Odessa region, in the early 2000s
58	DL0054	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Near the village Nadlymanske Ovidiopol district of Odessa region, in the early 2000s
59	DL0055	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Near the village Nadlymanske Ovidiopol district of Odessa region, in the early 2000s
60	DL0056	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Near the village Nadlymanske Ovidiopol district of Odessa region, in the early 2000s
61	DL0057	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Near the village Nadlymanske Ovidiopol district of Odessa region, in the early 2000s
62	DL0058	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Near the village Nadlymanske Ovidiopol district of Odessa region, in the early 2000s
63	DL0059	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Near the village Nadlymanske Ovidiopol district of Odessa region, in the early 2000s
64	DL0060	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Near the village Nadlymanske Ovidiopol district of Odessa region, in the early 2000s
65	DL0065	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Anokhin 1989	unknown	Nikoni, Ovidiopol district, Odessa region, 1964
66	DL0061	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	unknown	Zabarino village, Holoprystpnskyi district Kherson region

67	DL0062	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Not published	3,72 g. 40/13,5 mm.	Ivanivka village, Holoprystpnskyi district Kherson region
68	DL0063	<b>Olbia, AE</b> “Dolphin” On the flat side of the inscription APIXO	440-410 B.C.	Pivorovich 2009	3,9 g. unknown	Zabarino village, Skadovsk district. Kherson region
69	DL0064	<b>Olbia, AE</b> “Dolphin” OY	440-410 B.C.	Pivorovich 2009	unknown	Oleksandrivka village, Belozersky district Kherson region
70	AT0001	<b>Olbia, AE</b> “1/3 obol” Obv. Head of Athena in Attic helmet r.; to l., dolphin. Rev. Wheel in which, Π-A-Y-Σ	5th century B.C.	Not published	39,2 g 38.5mm.	Korsun-Shevchenkivskyi district. in 2015
71	AT0002	<b>Olbia, AE</b> “1/3 obol” Obv. Head of Athena in Attic helmet r.; to l., dolphin. Rev. Wheel in which, Π-A-Y-Σ	5th century B.C.	Sekerskaya & Bulatovich 2010	36 g. unknown	Nikoni, Ovidiopol district of Odessa region
72	AT0003	<b>Olbia, AE</b> Obv. Head of Athena in Attic helmet r.; to l., dolphin. Rev. Wheel.	5th century B.C.	Not published	unknown	Heroyske village, Holoprystan district. Kherson region
73	GO0001	<b>Olbia, AE</b> “1/8 obol” Obv. Gorgoneion Rev. Wheel in which, A-P-I-X.	437-410 B.C.	forum. violity	12 g 32 mm.	Tarashchansky district Kyiv region (exact location of the find is unknown) August 2020
74	GO0002	<b>Olbia, AE</b> Obv. Gorgoneion Rev. APIX and Eagle over a Dolphin.	440-437 B.C.	Pivorovich 2009	unknown	Near the village Mykilske, Belozersky district Kherson region 2006
75	GO0003	<b>Olbia, AE</b> Obv. Gorgoneion Rev. APIX and Eagle over a Dolphin.	440-437 B.C.	Pivorovich 2009	unknown	Kigburg spit of the Nikolaev area, 1975
76	GO0004	<b>Olbia, AE</b> Obv. Gorgoneion Rev. APIX and Eagle over a Dolphin.	440-437 B.C.	Not published	unknown	Vasylivka village, Ochakiv district Of the Nikolaev area



77	GO0005	<b>Olbia, AE</b> Obv. Gorgoneion Rev. APIX and Eagle over a Dolphin.	440-437 B.C.	Not published	unknown	South of the village. Fisherman of Holoprystan district. Kherson region
78	GO0006	<b>Olbia, AE</b> Obv. Gorgoneion Rev. APIX and Eagle over a Dolphin.	440-437 B.C.	Not published	unknown	Chulakivka village, Holoprystanskyi district, Kherson region
79	GO0007	<b>Olbia, AE</b> Obv. Gorgoneion Rev. APIX and Eagle over a Dolphin.	440-437 B.C.	Sekerskaya & Bulatovich 2010	unknown	Near the village. Fisherman of Holoprystan district. Kherson region
80	GO0008	<b>Olbia, AE</b> “Obol” Obv. Gorgoneion Rev. APIX and Eagle over a Dolphin.	440-437 B.C.	Not published	108,7 g unknown	The exact location of the find is unknown, found in western Ukraine
81	GO0009	<b>Olvia, AE</b> “¼ obol” Obv. Gorgoneion Rev. Eagle on a dolphin to the left, letters L and B between the tails of an eagle and a dolphin.	440-380 B.C.	Orlyk 2021	17,7 g 36 mm	Gnene village, Cherkasy district, Cherkasy region, 2015
82	GO0010	<b>Olvia, AE</b> “¼ obol” Obv. Gorgoneion Rev. Eagle on a dolphin left	440-380 B.C.	Not published	unknown	The exact location of the find is unknown, found in Vinnytsia region.
83	GO0011	<b>Olbia, AE</b> Obv. Gorgoneion Rev. Eagle on a dolphin left	440-380 B.C.	Orlyk 2021	unknown	with. Makeyevka, Cherkasy district, Cherkasy region Until 2019
84	GO0012	<b>Olvia, AE</b> “¼ obol” Obv. Gorgoneion Rev. Eagle on a dolphin left	400-380 B.C.	Lyashko 2017	15,2 g 35 mm	Raigorod village, Cherkasy district, Cherkasy region 2017
85	GO0013	<b>Olvia, AE</b> “¼ obol” Obv. Gorgoneion Rev. Eagle on a dolphin left	400-380 B.C.	Orlyk 2021	unknown	Between the villages of Kapitanivka, Novoukrainsky district, Kirovohrad region. and Pastyrsk, Cherkasy district, Cherkasy region, on the border of regions, 2021

86	GO0014	<b>Olvia, AE</b> Obv. Gorgoneion Rev. Eagle on a dolphin left	400-380 B.C.	Orlyk 2021	unknown	Between the villages of Kalynivka and Veseliy Kut, Kropyvnytskyi district, Kirovohrad region.
87	GO0015	<b>Olvia, AE</b> “Tetrobol” Obv. Gorgoneion Rev. Eagle on a dolphin left O-JI-B-I-O	400-380 B.C.	Not published	18,12 g unknown	Novovorontsovka, Belozirsky district, Kherson region
88	GO0016	<b>Olvia, AE</b> “Tetrobol” Obv. Gorgoneion Rev. Eagle on a dolphin left Rev. Eagle on a dolphin left O-JI-B-I-O	400-380 B.C.	Boltrick, Okatenko & Toshchev 2018	unknown 32 mm	Velyka Znamyanka, Vasylivskyi district, Zaporizhia region
89	GO0017	<b>Olvia, AE</b> “¼ obol” Obv. Gorgoneion Rev. Eagle on a dolphin left Rev. Eagle on a dolphin left O-JI-B-I-O	400-380 B.C.	Pivorovich 2009	21,18 g unknown	The village of Heroyske, Holoprystan district, Kherson region, 1999
90	GO0018	<b>Olvia, AE</b> “obol” Obv. Gorgoneion Rev. Eagle on a dolphin left”	460-425 B.C. Or 405-390 B.C.	Mielczarek 1989	unknown	Kasperivka of New Odesa of the Nikolaev area 1929
91	GO0019	<b>Olvia, AE</b> “Reduced obol “ Obv. Gorgoneion Rev. Eagle on a dolphin left	460-425 B.C. Or 405-390 B.C.	Not published	unknown	Koshary settlement, Odesa district. Odessa region
92	GO0020	<b>Olvia, AE</b> “1/2 obol” Obv. Gorgoneion Rev. Eagle on a dolphin left”	400-380 B.C.	Not published	unknown	Near the village Roksolana Odessa district. Odessa region

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Mykhailo Orlyk

ORCID: 0000-0003-3394-1731

Kherson State agrarian and economic University  
Ukraine

orlik.mihail@gmail.com

Yevhenii Kolesnichenko

ORCID:0000-0002-0339-1065

Central Ukrainian National Technical University  
Kropyvnytskyi, Ukraine

kolesnichenko.eugene@ukr.net