

# Archaeological Survey of the Oases of Zarabag, Karabag and Kampyrtepa in the Piedmont of the Kugitang Mountains, South Uzbekistan - Preliminary Report for the Season 2016

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## ABSTRACT

This preliminary report summarizes the results of the archaeological research in the oases in the Kugitang Piedmont after the second season (summer 2016). The field survey in the Zarabag Oasis, which was the subject of our interest in the first season, was accomplished and the research continued in the oases where the villages of Karabag and Kampyrtepa are situated. The prospection led to the detection of new archaeological sites in both of them. Moreover, the examination of the sites previously known from earlier works was conducted. Besides this we focused on the mapping of the water sources. The collected data have been processed in GIS and the finds were analysed and dated. Preliminarily, we observe basically a similar dynamic in the settlement patterns of all the researched oases.

## KEYWORDS

Central Asia; oasis; field survey; settlement dynamic; Bactria; Tokharistan; Sapalli Culture; Yaz Culture.

## INTRODUCTION

Archaeological research of the oases situated in the piedmonts of the Kugitang Mountains continued from the previous season. The prospection conducted in the season 2015 in the oasis of Zarabag was preliminarily presented in *Studia Hercynia XIX* (AUGUSTINOVÁ *et al.* 2015, 262–281). In this second season, the archaeological survey in the Zarabag Oasis was successfully accomplished and the research continued in two neighbouring oases, corresponding to the modern villages of Karabag and Kampyrtepa. This report summarizes the newly gained data from the research area.

## RESEARCH BACKGROUND

The long-term aim of the research of the Institute of Classical Archaeology at Charles University led by Ladislav Stančo is to study the settlement patterns both in the historical and prehistoric periods in the steppe belt of the Kugitang Piedmont (DANIELISOVÁ – STANČO – SHAYDULLAEV 2010, 67–90; STANČO *et al.* 2014, 31–41; AUGUSTINOVÁ *et al.* 2015, 262–281; AUGUSTINOVÁ – STANČO 2016, 122–138; STANČO 2016, 73–85; STANČO *et al.* 2016, 86–111; LHUILLIER 2016, 112–121). The combination of the data gained during the field survey in the oases (AUGUSTINOVÁ *et al.* 2015, 262–281; AUGUSTINOVÁ 2016) with the data from the extensive prospection in the surrounding steppe landscape (STANČO *et al.* 2014, 31–41; STANČO 2016, 73–85), and

the data gained during the excavations of the Czech archaeological team in cooperation with Uzbek and French archaeologists (STANČO *et al.* 2014, 31–41; STANČO *et al.* 2016, 86–111; LHUIL-LIER 2016, 112–121), as well as the information from excavations of the other archaeological teams in the given area (MKRTYCHEV *et al.* 2005; GRUBER *et al.* 2012, 339–375; KANIUTH *et al.* 2010, 129–164) form the picture of the landscape during the various periods in the past.

## OASES RESEARCHED IN 2016

During two survey seasons (autumn 2015, summer 2016), prospection was conducted in three oases in the piedmonts of the Kugitang Mountains. The largest of them – the Zarabag Oasis – has been completely investigated and the research results have been analysed (AUGUSTINOVÁ 2016). The data collected so far in two others oases (Karabag and Kampyrtepa) are summarized in this preliminary report.

The second research season took four weeks at the turn of August and September 2016. As in the previous season, it consisted of a field survey in the oases and their vicinity and of the processing of the archaeological material. The survey and documentation of material were carried out by a team of three students, A. Augustinová, L. Damašek and M. Mrva (Institute of Archaeology at Charles University) led by A. Augustinová. Throughout the survey, we were accompanied by two local teachers, who helped us to communicate with locals. Oromiddin Aminov accompanied us in the villages of Zarabag and Kampyrtepa and Aziza Khaydkulova helped us with the communication in the village of Karabag. Some of the data were collected during the field survey in the steppe belt by L. Stančo (Institute of Classical Archaeology at Charles University). Most of the finds were dated according to the expert examination of Sh. Shaydullaev.

## GOALS AND METHODS

The natural conditions in all of the investigated oases are similar, thus we used basically the same or a very similar set of research methods (AUGUSTINOVÁ *et al.* 2015, 262–281). The archaeological research in the oases and their surroundings was conducted, generally speaking, by way of extensive prospection. Several different goals, however, demanded the use of various approaches. The purpose of the extensive survey is to cover (or more precisely – uncover) in an equal way as much of an area as possible. The fitness of the surveyed area for study depends on the character of the place; i.e., for instance, on the extent of utilized agricultural area and the density of the overgrowth, on the rate of ploughing, crop growing in the gardens, level of the built-up area, extent of the waste disposal areas, the way of use of the public places etc.

We focused on the acquisition of surface archaeological material that could, in combination with the precise spatial data, help us to reconstruct the settlement dynamic during the past. The survey was complemented by use of a metal detector; the assemblage of archaeological material was augmented by an otherwise invisible important group of artefacts. As for the field work strategy, in the first step we focused on the apparently significant sites, i.e. those that were well-known to the local population and typically reported as being ‘old’ or ‘ancient’, whatever that means. Afterwards we paid special attention to the modern and pre-modern cemeteries, since it had been observed earlier that during the digging of graves, diggers occasionally disrupt earlier settlement or burial levels and bring to light artefacts deposited in them. These artefacts are usually placed on the new grave as decoration (STANČO – TUŠLOVÁ

eds. in print, chapter 2.2.4.). In the next step we focused on the prominent topographic surface features, which are supposed to be of an anthropogenic origin.

Last but not least we focused on the water sources in every oasis, and on their spatial relation to the settlement. Numerous springs were detected in each of them and in the Zarabag Oasis we even detected the *karez*es.

The documentation base was the same in each of the above mentioned studied topics. The important points (corresponding with the artefacts' findspots, significant topographic features, the space demarcation etc.) were located by a GPS Garmin eTrex. Afterwards the spatial data were processed by QGis and further analysed.

An integral part of the field survey was the photographic documentation of the features, objects, and situations. The finds – mostly the ceramic fragments or vessels – were taken to the base and photographed and drawn. In several cases the vessels were given back to their finders, in most cases, however, they were subsequently deposited in the Termez Archaeological Museum.

The only available topographic map for the research area that was created by the Soviet Military in 1983 (Pl. 4/1; at a scale 1:100 000) was not sufficient for our aims. Thus, as the underlay map for our work, we have used the satellite imagery provided by Google Earth.

## THE LOCATIONS AND NATURAL CONDITIONS

All three oases are situated in the western part of the Sherabad District of the Surkhandarya Province (south Uzbekistan), forming the northern part of the Pashkhurt Basin. They lie approximately 6–11.5 km to the north of the centre of the village of Pashkhurt (Zarabag: 6.3 km; Karabag 7.5 km; Kampyrtepa 11.2 km). The border between Uzbekistan and Turkmenistan runs along the ridge of Kugitang 9.5 km to the west of the Kampyrtepa Oasis which is the westernmost of the three oases. They are located in the steppe belt of the piedmont of the Kugitang Mountains – Zarabag (985 m.a.s.l.) E 66°44' / N 37°45'; Karabag (860 m.a.s.l.) E 66°48' / N 37°46'; Kampyrtepa (1,206 m.a.s.l.) E 66°41' / N 37°46'. The steppe decreases here slightly from west to east.

## THE SURVEYED AREAS

### THE SURVEYED POLYGONS

The prospection was conducted in the still intensely settled oases and their nearest surroundings. This fact is reflected in the types of the surveyed areas, types of finds, and their state of preservation.

The plots of the local inhabitants became the most frequented survey areas. The prospection was conducted mostly in gardens, orchards, in small fields, or in terrain disrupted by construction activities. Another type of survey polygons represented public places, such as areas in the surroundings of springs, paths etc. Besides these, we focused also on the cemeteries (see above).

It is important to note that in most cases the finds were not found *in situ*. They came from the places used for agriculture and pasture, from the waste disposal areas in the plots or areas used in another way, and some of the finds had been found by the local people before our ar-

rival,<sup>1</sup> therefore, it is not possible to localize their exact findspots. The finds are localised with accuracy corresponding to the extent of the determined polygons / plots. Finds in an open landscape (for example the concentrations of the pottery fragments in the open terrain without clear limits) are localised in a square that represents the possible dispersion of the finds.

Based on the spatial data gained during the field survey, we created the polygons in the map using the QGIS software. The polygons with the finds (POL\_001-208), but also the polygons that lack them (negative results – NEG\_001-064), are depicted in the map (**Pls. 4/2-4**). A detailed characterization of the first category – polygons with finds (POL\_XX) – is summarized in Table 1 in the appendix (**Tab. 1**). The negative results represent the surveyed areas, where finds have been detected neither by the local people, nor by our field survey. Also places whose names refer to a possible anthropogenic origin, but where no finds have been found, were assigned to this category of negative results.

We also noticed places, where a survey could not be conducted for various reasons (e.g. the plot was overgrown with vegetation; we were not granted permission to gain access to the plot, etc.), but there may potentially be some archaeological evidence. Its information value is important only for future research, not for the interpretations of the surveyed area, that is why we do not lay out these areas here.

Each of the three studied oases covers a different area, which also affects the number of the survey polygons. Here follows a summary of the surveyed areas, the important sites and find spots are closely characterized in the description of the respective oasis:

In the Zarabag Oasis (approximately 425 ha), 135 polygons were surveyed with positive (POL\_001-135), and 32 with negative results (NEG\_001-023).

In the Karabag Oasis (approximately 276 ha), 63 polygons were surveyed (POL\_136-196, POL\_208) while 26 gave negative results (NEG\_024-057, NEG\_064).

In the oasis of Kampyrtepa (approximately 170 ha), 11 of the surveyed polygons produced positive (POL\_197-207) and 6 negative results (NEG\_058-063).

## THE MORPHOLOGICAL FEATURES AND NOTICEABLE SPOTS

The next phenomena that we focused on were the morphologically prominent features in the terrain, the places with toponyms associated with their possible anthropic origin, and other significant objects. They are summarized in Table 2 (**Tab. 2**) and listed under the codes KuPi\_001-060. The table contains their brief characteristic, coordinates, and finds. If some of these features extend in a wider area and there are some finds, it is also included in the category of polygons with finds (POL\_XX).

In the Zarabag Oasis 44 such sites (KuPi\_001-044) were recognized; in the Karabag Oasis there were 11 of them (KuPi\_045-055); and in the oasis of Kampyrtepa five sites (KuPi\_056-060). Their detailed descriptions are given in the respective subheads on specific oases below and their location is also depicted in the map (**Figs. 1-3**).

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1 All of these facts we reflect in the evaluation of the results.

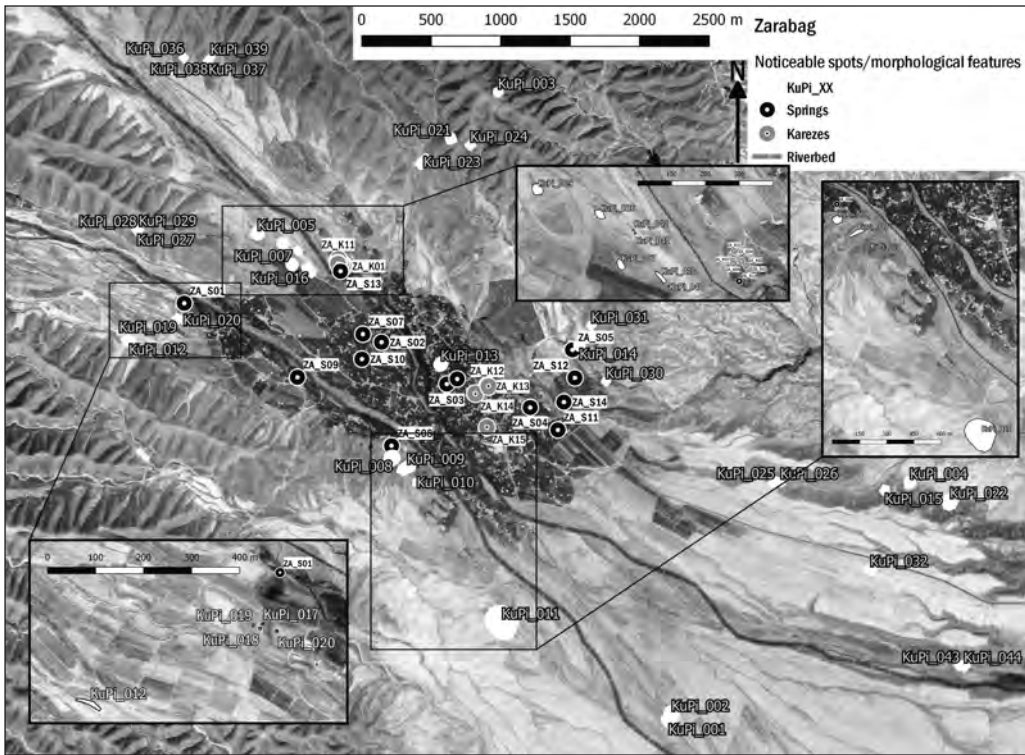


Fig. 1: Noticeable spots with finds and morphological features (KuPi\_xx) in the Zarabag Oasis (map by A. Augustinová).

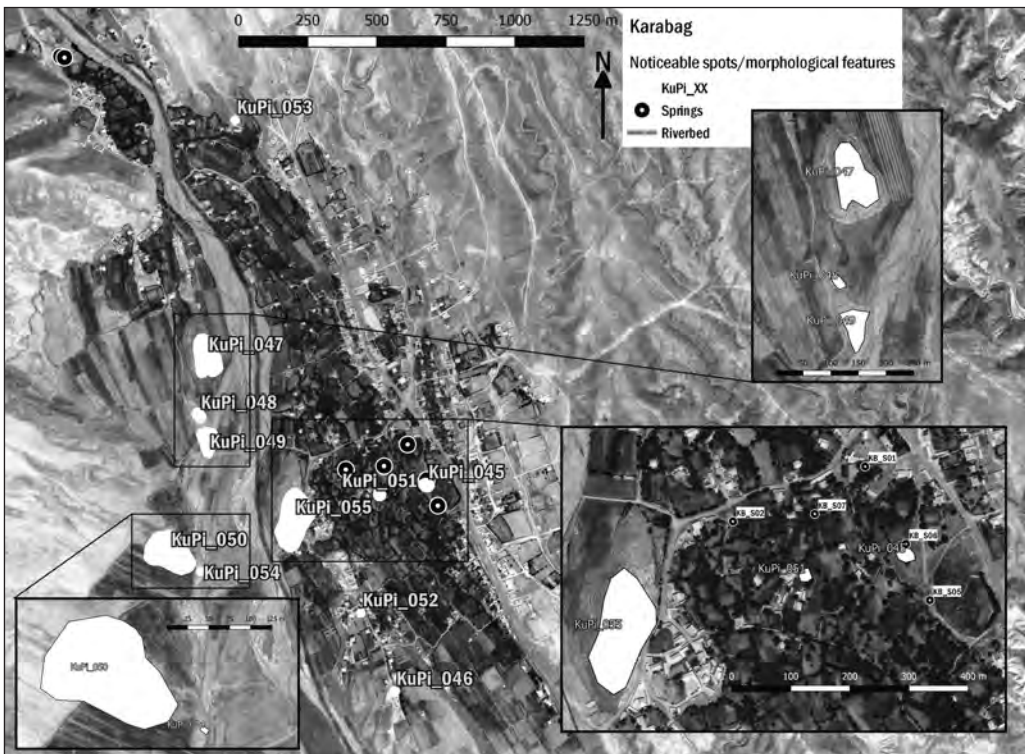
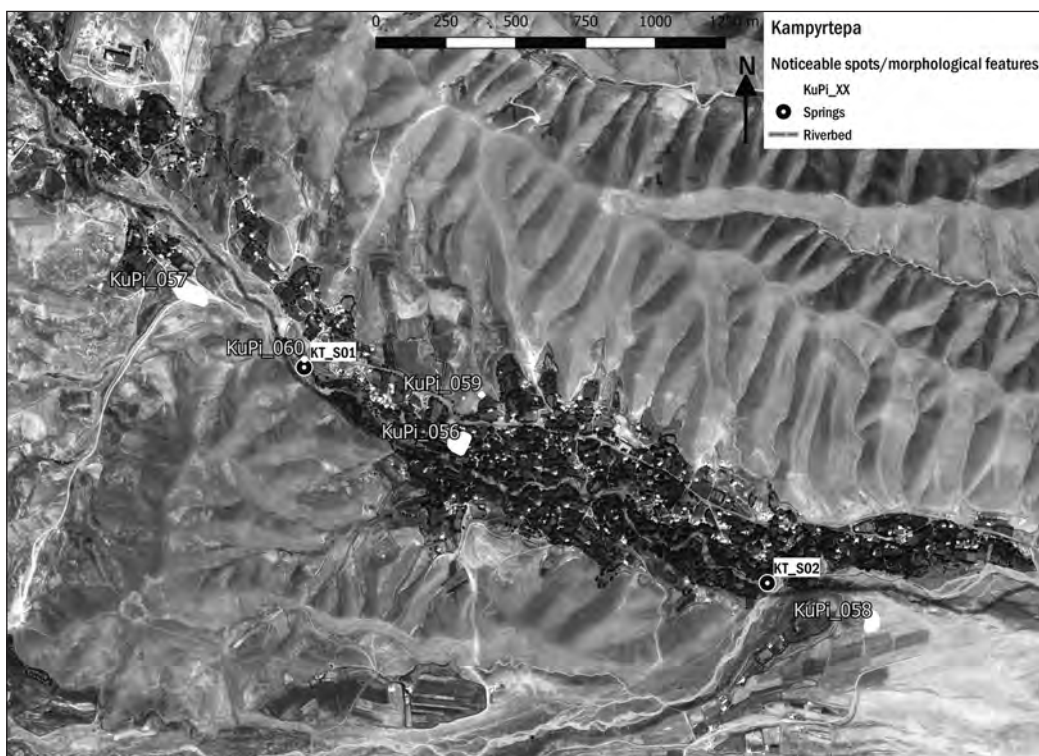


Fig. 2: Noticeable spots with finds and morphological features (KuPi\_XX) in the Karabag Oasis (map by A. Augustinová).



**Fig. 3: Noticeable spots with finds and morphological features (KuPi\_XX) in the Kampyrtepa Oasis (map by A. Augustinová).**

## WATER SOURCES

The water sources are the main prerequisite for a settlement today as in the past and therefore one of the aims of the survey was the mapping of them. The water springs were detected in each of the three surveyed oases, moreover in the oasis of Zarabag, there were detected even remains of *karez*s.<sup>2</sup>

In the largest one – the oasis of Zarabag – 14 springs were detected (ZA\_S01–ZA\_S14) that had already been listed in the report from the previous season (AUGUSTINOVÁ *et al.* 2015, 262–281). In the village of Karabag seven springs were detected (KB\_S01–KB\_S07) and in the smallest oasis of Kampyrtepa we found only two springs (KT\_S01–KT\_S02). Again, they are closely characterised in the chapter on individual oases below. All of them are summarized in Table 3 (**Tab. 3**) and depicted on the map (**Figs. 4–6**).

<sup>2</sup> *Karez*s are the underground tunnels that collect the underground water and bring it to the places where it is needed (see CHELEBI 1983, 234). For more information, see AUGUSTINOVÁ *et al.* 2015, 262–281 and AUGUSTINOVÁ 2016.



Fig. 4: Water sources – springs and karezes – in the Zarabag Oasis (map by A. Augustinová).

## KARABAG

### PRESENT STATE OF THE VILLAGE AND THE NARRATIVE SOURCES

The oasis of Karabag spreads over both the banks of the seasonal river called the Karabag Say<sup>3</sup> at a length of 3.3 km in the north-south direction. The current extent of the oasis is approximately 276 ha.

Based on the 2016 census, 4,375 people and 867 families lived in the village of Karabag; most of the inhabitants are Uzbeks whereas the inhabitants of Zarabag are supposed to be mostly Tajiks.

During the prospection in the oasis, we recorded the narration of a former Imam from the mosque in Karabag named Ximodinov Shahriddin Hojibobo.<sup>4</sup> Based on his account the history of Karabag began 1000 years ago.<sup>5</sup> In the vicinity of the spring near the mosque (KB\_S01 – Kata Boloq) there was a stop-off for the caravans that went from the north (Tashkent, Samarkand, Karshi etc.) to the south across the Amu Darya to Afghanistan. Near this spring settled the second son of Genghis Khan – Chagatai Khan and it was him, who named the place Qorabog'<sup>6</sup>,

3 The name Karabag Say is used by local inhabitants, but more appropriate would be the naming Karabag Darya (Say = Uzb. “river bed”; Darya = Uzb. “river”).

4 Ximodinov Shahriddin Hojibobo (Aged 85?); village of Karabag - Sherabad District, south Uzbekistan; September 1<sup>st</sup>, 2016.

5 Take into consideration that the term “1000 years ago” used by locals is only an expression meaning “a history that they even do not know from the narrative, but only as a legend”.

6 We used the English transcription of the title (Qorabog' = Karabag) to preserve the unity of the transcription with other titles in the paper.

meaning The Black Orchard and therefore the inhabitants of Karabag consider themselves today the lineal descendants of Genghis Khan. A small mosque for 15 people was founded 200 years ago<sup>7</sup> near the above mentioned spring by Afandi Xon – a man who came from Afghanistan and settled here. Later it was extended and in 1991 it was rebuilt in the present form. This mosque serves for the Friday's prayers also for the inhabitants of the surrounding villages (Zarabag, Kampyrtepa, Shalkan and Kyzilalma) where no working mosques remain by now.

The ethnic origin of the inhabitants of Karabag is mentioned also in the work of B. Kh. Karmisheva (1976). In 1966 she recorded a narrative by Abdulla Atchilov a Karabag-born long-term co-worker with the historic-regional Museum in Termez as well as by a local teacher also born in Karabag. Based on their narrative, the founding of the village of Karabag was complicated. Fifteen groups of inhabitants all of different origin (*avlodi* = Uzb. “generation”; *tuda* = Uzb. “group”) settled there. Members of this heterogeneous community entered into marriages with the inhabitants of neighbouring Zarabag (which differed in language) and with the inhabitants of Paskhurt (who did not differ from Karabag people, because all of them were Chagatay).

#### WATER SOURCES

Seven springs were detected in the village of Karabag (**Fig. 5**; KB\_So1–KB\_So7; *buloq* = Uzb. “spring”) and six of them have a local name. Near the mosque springs the Kata Buloq (KB\_So1; *kata* = Uzb. “Big”); in the narration of the Karabag mosque former imam (see above) this spring was connected with the earliest history of the village. The Ashrav Buloq (KB\_So2) bears the name of a person unknown today. The Tosh Buloq (KB\_o3; *tosh* = Uzb. “Stone”) and Chikes Buloq (KB\_So4; *chikes* = Uzb. “Bull”) are situated close to each other in the north of the Karabag Village. The Dzhida Buloq (KB\_So4; *dzhida* = type of fruit) springs in the central part of the village, not far away from the spring of Bakhodin Buloq (KB\_So6; Uzb. “Bakhodin's spring”). The last nameless (or Orom<sup>8</sup>) Buloq (KB\_So7) is also situated in the central part of the village.

#### THE MORPHOLOGICAL FEATURES AND THE LOCATIONS WITH ARCHAEOLOGICAL EVIDENCE

During the prospection, 63 places with finds of archaeological material were detected (POL\_136–196, POL\_208; **Pl. 4/3**), which are summarized with coordinates in the table (**Tab. 1**), as well as 26 places with negative results (NEG\_024–057, NEG\_064).

Four sites in the Karabag Oasis had already been mentioned in the earlier literature – Khush-Vakttepa (ARSHAVSKAYA – RTVELADZE – KHAKIMOV 1982, 134; RTVELADZE – KHAKIMOV 1973, 22; RTVELADZE 1974, 77; STRIDE 2004, code Uz-SD-233; DANIELISOVÁ – STANČO – SHAYDULLAEV 2010, 83, code 057), Kurgantepa (ARSHAVSKAYA – RTVELADZE – KHAKIMOV 1982, 134; STRIDE 2004, code Uz-SD-163; DANIELISOVÁ – STANČO – SHAYDULLAEV 2010, code 116), Gilyam Pusht (ARSHAVSKAYA – RTVELADZE – KHAKIMOV 1982, 134; STRIDE 2004, code Uz-SD-152; DANIELI-

7 Term “200 years ago” used by locals is only an expression meaning “a time ago”.

8 This spring had no name before our prospection. But because of a wedding ceremony in a nearby household during our survey, the local people that helped us with the communication and translation in the villages, named this spring Orom Bulok at this occasion (*orom* = Uzb. “Happiness”). This information has rather an ethnological character without any importance for our research purposes. Nevertheless, it represents an important component of the formation of the society and their relation to their surroundings.



SOVÁ – STANČO – SHAYDULLAEV 2010, code 115) and Mazaristantepa (ARSHAVSKAYA – RTVELADZE – KHAKIMOV 1982, 134). The identification of some of these sites with the sites detected during our survey is, however, slightly difficult, since the names used by the local population have probably changed over the last forty years.

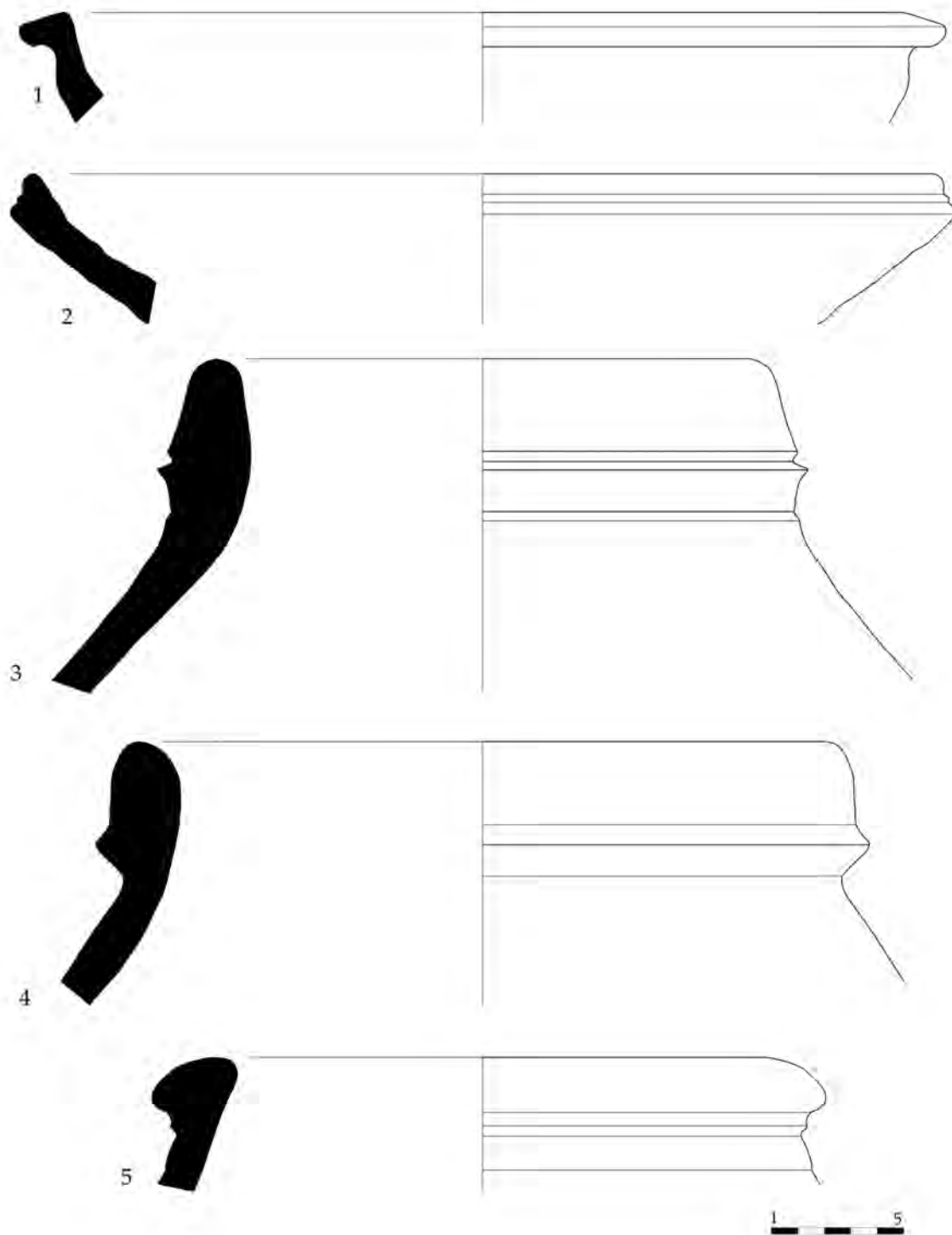


**Fig. 5: Water sources - springs - in the Karabag Oasis (map by A. Augustinová).**

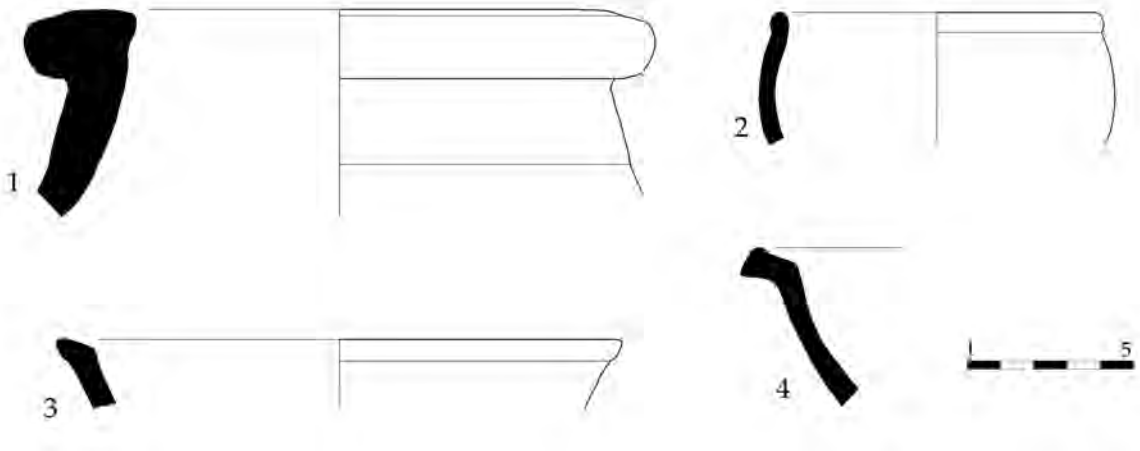
The site called Khush-Vakttepa<sup>9</sup> (KuPi\_051; POL\_139) was already known to the Czech-Uzbek team, since it had been surveyed during two short visits: for the first time on 3<sup>rd</sup> September 2009 and then again on 15<sup>th</sup> September 2010. The pottery material gained from the site hinted at dating to the Kushan and High Medieval period (13<sup>th</sup> c.), but perhaps also to the Early Medieval (5<sup>th</sup>-7<sup>th</sup> c.) and Pre-modern times (17<sup>th</sup>-18<sup>th</sup> c. AD).<sup>10</sup> The location in earlier works corresponds in this case with our detections: it is situated in the centre of the Karabag village among the gardens and houses on the left bank of the Karabag Say. The small compact mound (ca. 9×13 m; h. 3.5 m) is unfortunately gradually disrupted by digging clay for the construction works. Due to this fact, there are visible sections with clearly recognizable cultural layers that contain pottery fragments (**Pl. 4/5**). Based on the ceramic fragments that we sampled from the recognized settlement levels, these were dated to the end of the 4<sup>th</sup>-5<sup>th</sup> c. AD, to the 11<sup>th</sup> c., and to the Pre-modern period (18<sup>th</sup>-19<sup>th</sup> c.), (**Figs. 6:3 and 4; 7:1 and 2**), which corresponds roughly to our previous dating. Other pottery fragments have been collected in the nearest surroundings of this mound. These are supposed to be closely connected with this site, and are dated to the Bronze Age and to the Early Medieval period (5<sup>th</sup>-7<sup>th</sup> c.).

9 The name Khush-Vakttepa (*vakt* = Uzb. “Time”) is mentioned in the earlier works (RTVELADZE – KHAKIMOV 1973; RTVELADZE 1974; STRIDE 2004; DANIELISOVÁ – STANČO – SHAYDULLAEV 2010), but during our present field survey it was presented to us as Khudzboktepa (*khudzhbok* = Taj. “Pleasure”).

10 Two scholars were consulted with different results.



**Fig. 6:** Selected pottery from the surface survey in the Karabag Oasis. Findspot and dating: 1 and 5 - Dauron Tepa (KuPi\_049), High Medieval (12<sup>th</sup> c.); 2 - Kurgan Tepa (KuPi\_055), Late Bronze Age (Sapalli culture); 3-4 Khushvakttepa (KuPi\_051), Early Medieval (5<sup>th</sup>-7<sup>th</sup> c.); (drawing by T. Kolmačka).

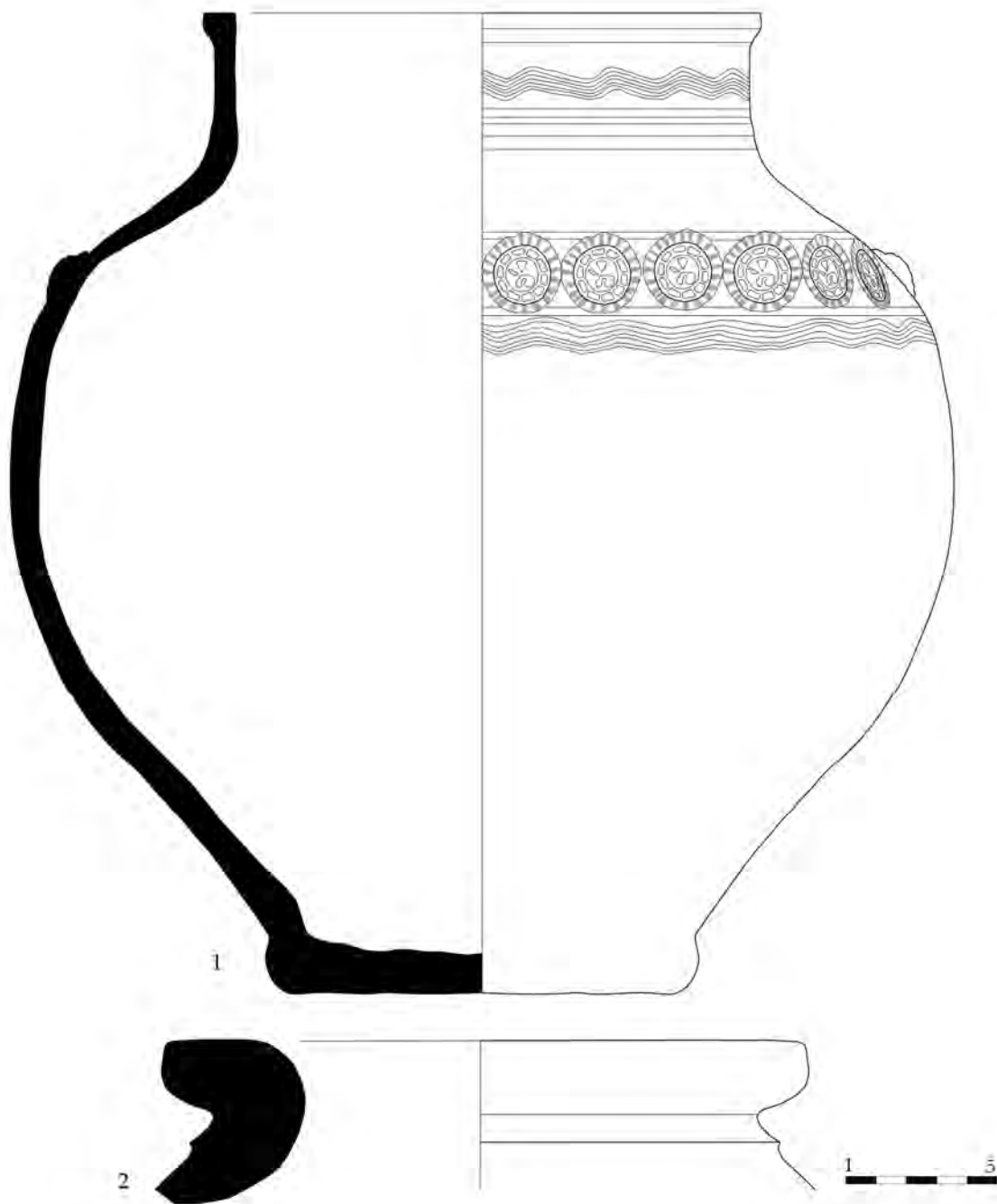


**Fig. 7: Selected pottery from the surface survey in the Karabag Oasis. Findspot and dating: 1 - no name (POL\_140), Early Medieval (5<sup>th</sup>-6<sup>th</sup> c.); 2, 4 - Khushvakttepa (KuPi\_051), 2 - Bronze Age, 4 - Early Medieval (6<sup>th</sup>-7<sup>th</sup> c.); 3. no name (POL\_161) - Late Bronze Age (Sapalli culture); (drawing by T. Kolmačka).**

The Kurgantepa (KuPi\_055; POL\_142) is mentioned in earlier works as a rectangular mound (30×60 m) where the archaeological material dated to the Medieval period was found (ARSHAVSKAYA - RTVELADZE - KHAKIMOV 1982, 134). The Czech-Uzbek team surveying Karabag in 2010 identified Kurgantepa with a small mound on which a mosque stands (see above); this identification, however, was far from sure and pottery collected on the surface was not significant enough to date the site (these observations have not yet been published). During our new survey in 2016, on the other hand, the place of the modern cemetery was shown to us by the locals under this name. During our prospection numerous ceramic fragments were detected. In the lower part of the cemetery there were denser concentrations of pottery (59 selected fragments - KA014-01-59) in the upper part, which has the shape of a huge mound,<sup>11</sup> the ceramic fragments were more sporadic (30 frags. - KA012-01-30). The ceramic fragments were dated to the Late Bronze Age (two frags.), Early Medieval (5<sup>th</sup>-6<sup>th</sup> c.; seven frags.), High Medieval (10<sup>th</sup>-12<sup>th</sup> c.; 55 frags.), 12<sup>th</sup>-13<sup>th</sup> c. (one frag.), 18<sup>th</sup>-19<sup>th</sup> c. (26 frags.), (**Figs. 6:2; 8:1; 9:2 and 3; 10:1 and 2; 11:1**). The pottery from the Early Medieval period was situated only in the lower part of the cemetery of Kurgantepa. The upper part is not used for funeral purposes nowadays; the Karabag people are still well-aware of the former funeral function of the summit, and it is therefore not allowed to place the new burials up there.

Based on the information on earlier surveys (ARSHAVSKAYA - RTVELADZE - KHAKIMOV 1982, 134), there should be a site called Gilyam Pusht in the central part of the village. Reportedly, it was a small mound (d. 20 m, h. 2 m) with an assemblage of finds belonging to the Medieval period. Again, after our earlier survey in September 2010 we identified this description with a place located in the central part of the village and used as a cemetery once (these observations have not yet been published). Our recent survey in 2016 verified this identification: under the name Gilyam Pusht (NEG\_052) the locals showed to us the same cemetery again.

<sup>11</sup> According to a local legend there should be an underground tunnel which connected the *Kurgantepa* with *Kush-Vakttepa*.



**Fig. 8:** Selected pottery from the surface survey in the Karabag Oasis. Findspot and dating: 1 - Kurgan Tepa (KuPi\_055), High Medieval (12<sup>th</sup> c.); 2 - Dauron Tepa (KuPi\_049), Early Medieval (5<sup>th</sup>-6<sup>th</sup> c.); (drawing by T. Kolmačka).

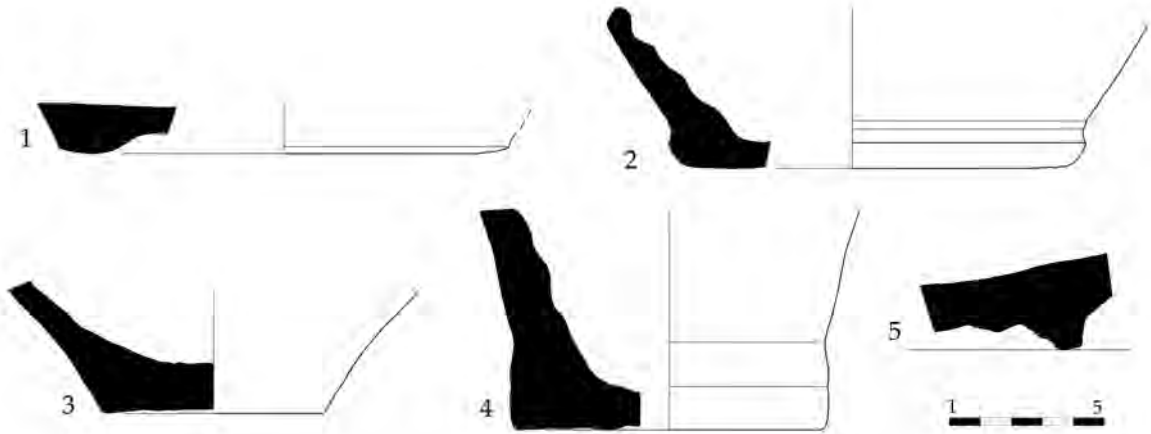


Fig. 9: Selected pottery from the surface survey in the Karabag Oasis. Findspot and dating: 1 - no name (POL\_140), High Medieval (13<sup>th</sup> c.); 2-3 - Kurgan Tepa (KuPi\_055), High Medieval (10<sup>th</sup>-11<sup>th</sup> c.); 4 - Dauron Tepa (KuPi\_049), High Medieval (12<sup>th</sup> c.); 5 - no name (POL\_140), Bronze Age; (drawing by T. Kolmačka).

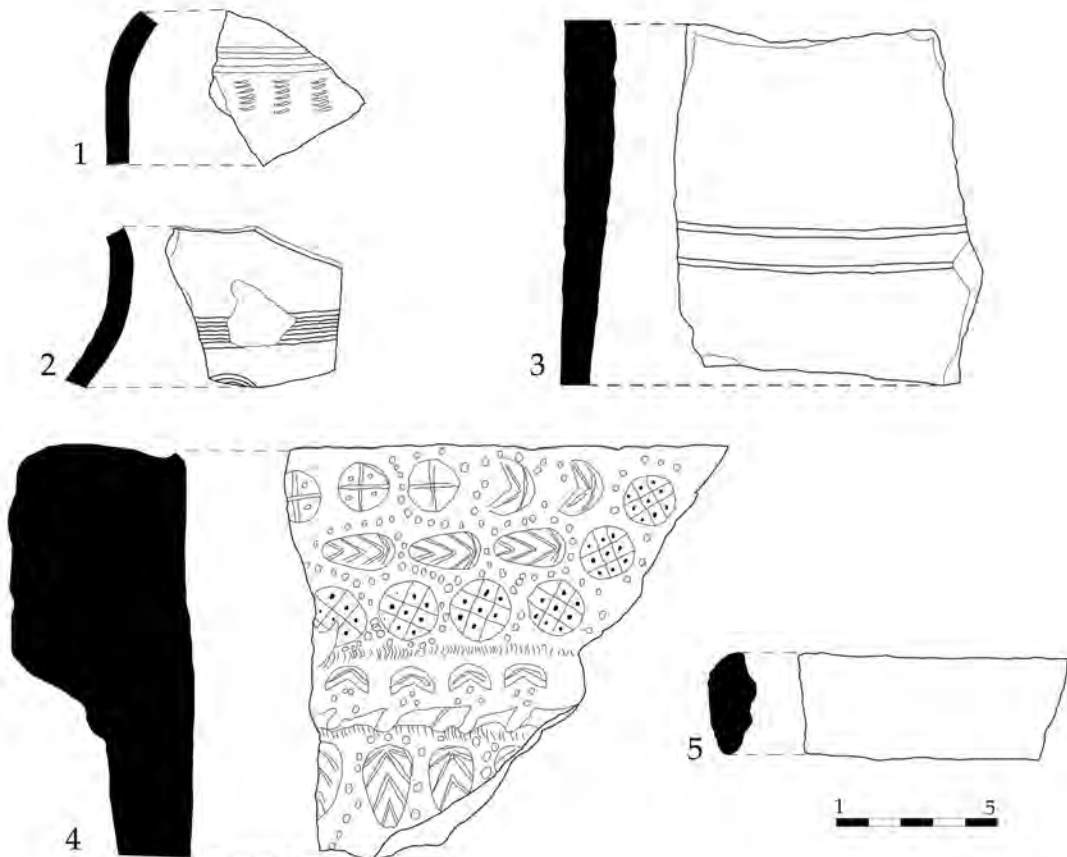
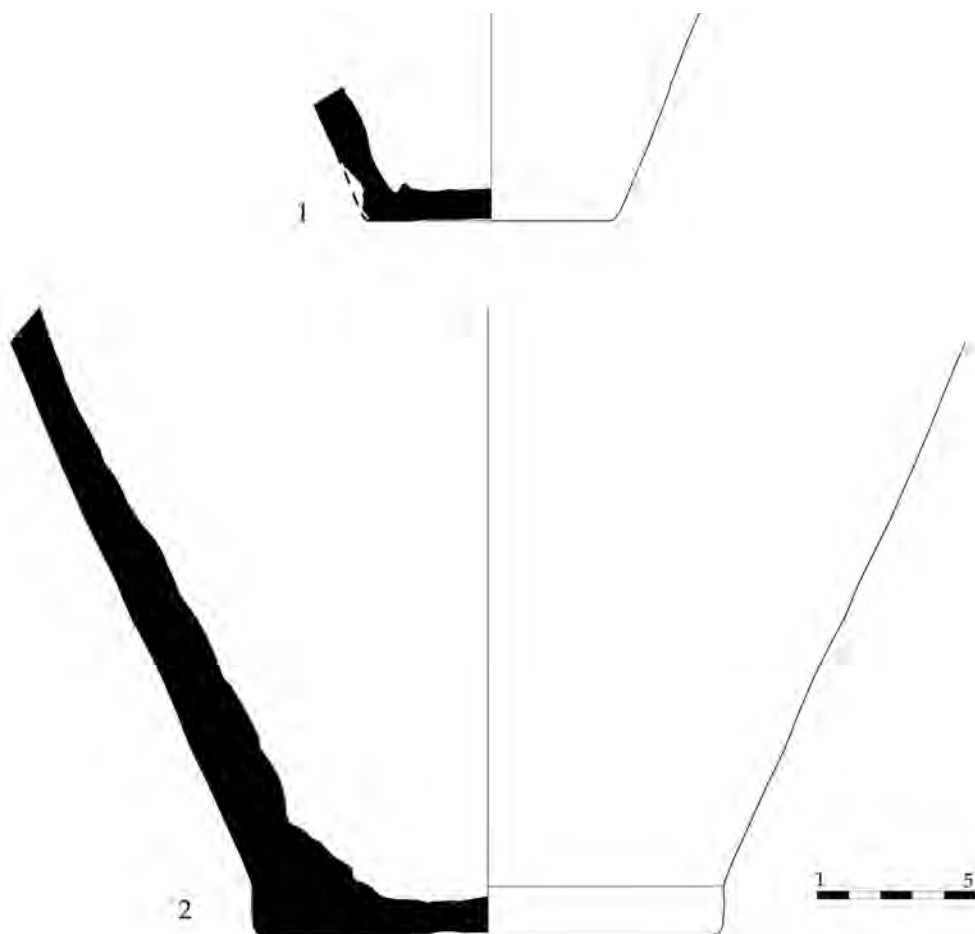


Fig. 10: Selected pottery from the surface survey in the Karabag Oasis. Findspot and dating: 1 - Kurgan Tepa (KuPi\_055), High Medieval (10<sup>th</sup>-12<sup>th</sup> c.); 2-3 - Dauron Tepa (KuPi\_049), 4<sup>th</sup>/5<sup>th</sup> c.; 4 - no name (POL\_163), High Medieval (12<sup>th</sup> c.); 5 - no name (POL\_149), High Medieval (10<sup>th</sup>-11<sup>th</sup> c.); (drawing by T. Kolmačka).



**Fig. 11: Selected pottery from the surface survey in the Karabag Oasis. Findspot and dating: 1 - Kurgan Tepa (KuPi\_055), Early Medieval (5<sup>th</sup>-6<sup>th</sup> c.); 2 - no name (POL\_137), High Medieval (12<sup>th</sup> c.); (drawing by T. Kolmačka).**

Even though it is not used for burials any more, there is still the fence around this area, and the Karabag inhabitants are well aware of its former funeral function. The site is situated in the central part of the Karabag village at the main road, and its surface covers an area of 1.3 ha. Most of the site was overgrown with dense grass during both of our prospectations, but in the places without vegetation including several dug pits, some archaeological material was found.

The identification of the last mentioned site - Mazaristantepa - with the sites detected during our survey is very difficult. This site with finds belonging to the Medieval period is reportedly situated on the left bank of the Karabag Say (ARSHAVSKAYA - RTVELADZE - KHAKIMOV 1982, 134), nevertheless we did not detect any site of this name.

There are three kurgans<sup>12</sup> among the noticeable sites considered by local people as historically significant - Kush-Vakttepa (KuPi\_051; POL\_139), Kurgantepa (KuPi\_055; POL\_142), and Bakhodin Balogardon (Uzb. "The man, who averted a disaster"<sup>13</sup>; KuPi\_045; NEG\_057). The first

<sup>12</sup> The term "Kurgan" represents at this point the name given by the local inhabitants, it cannot be understood strictly in the archaeological sense.

<sup>13</sup> *Bakhodin* = Uzb. is a name of a theologist; *Balogardon* = Uzb. merit of this theologist => *balo* = Uzb. disaster; *gardon* = Taj. return.

two have already been dealt with above. At the place called Bakhodin Balogardon (KuPi\_045; NEG\_057) a water basin was constructed, which perhaps disturbed or destroyed this feature. Today, there are no apparent remains of the site visible on the spot, and no archaeological evidence has been detected.

Besides these “kurgans” and the sites mentioned in earlier literature, we detected several other sites with a significant amount of archaeological evidence. There is a hill with the peak platform (125×60 m) called Bilgardon (KuPi\_047; *bil* = Uzb. “know”; *gardon* = Taj. “return”), which is well visible from the wider surroundings. It is situated on the right bank of the Karabag Say in the central part of the village. On the surface of the summit platform some pottery fragments were collected, dated to the High Medieval period (12<sup>th</sup> c.; four frags.) and to the Pre-Modern period (18<sup>th</sup>–19<sup>th</sup> c.; seven frags.).

In the vicinity of Bilgardon there were two other scatters of archaeological material (to the south of Bilgardon). The site KuPi\_048 lies 125 m to the south of Bilgardon and has the shape of a small mound (25×13 m). Three pottery fragments were collected there dated to the 11<sup>th</sup> c. The place called by the locals Daurontepa (Uzb. “Tepa of better times”; **Fig. 12**) is situated 40 m further to the south of this mound. It forms a platform with an isosceles triangle ground plan (55×86×86 m; KuPi\_049; POL\_145); plentiful ceramic fragments were detected there (we sorted out 59 of them). Based on the dating of this material, this place was occupied at the end of the Late Kushan period (4<sup>th</sup> c.; two frags.), during the Early Medieval period (5<sup>th</sup>–6<sup>th</sup> c.; 12 frags.), High Medieval period (12<sup>th</sup> c.; 14 frags.) and in the Pre-Modern period (18<sup>th</sup>–19<sup>th</sup> c.; 31 frags.), **Figs. 6:1 and 5; 8:2; 9:4; 10:3**.



**Fig. 12:** Early Medieval (5<sup>th</sup>–6<sup>th</sup> c.) and High Medieval (12<sup>th</sup> c.) site in the Karabag Oasis (POL\_145) (photo by A. Augustinová).

Moreover, three pottery fragments belonging to the 11<sup>th</sup>–12<sup>th</sup> c. were found in the middle of the Karabag Say (POL\_142) on an island in the middle of the seasonal river (although this island was probably only recently cut-off from the bank). This place is situated 55 m to the east of the KuPi\_049 in the fields. All these sites (KuPi\_047, KuPi\_048, KuPi\_049, POL\_142) likely belonged to each other.

A very distinct hill (KuPi\_050; 165×100 m) that is visible from the wide surroundings revealed only a few pottery fragments (seven pieces – four of them dated to the High Medieval period (11<sup>th</sup> c.) and three to the Pre-Modern period (18<sup>th</sup>–19<sup>th</sup> c.).

Another scatter of finds was detected in the middle part of the Karabag village between the three above mentioned springs Kata Buloq (KB\_So1), Bakhodin Buloq (KB\_So6) and the nameless spring (KB\_So7), 80 m to the north-east of the Kush-Vakttepa (KuPi\_051). Fifty pottery fragments were collected there dated to the Early Medieval and High Medieval period (see **Tab. 1**) including also material from the Pre-Modern period.

Another substantial scatter/cluster was detected in a garden (POL\_170) having produced 45 fragments. Most of them (32 frags.) was dated to the Pre-Modern period, while the others belong to the Bronze Age (two frags.), Early Medieval period (5<sup>th</sup>–6<sup>th</sup> c.; five frags.), and to the High Medieval period (12<sup>th</sup> c.; four frags.).

In another garden (POL\_182), most of the collected fragments (25 pcs.) belong to the High Medieval period (12<sup>th</sup> c.), the rest of them were identified as Pre-Modern pottery.

In the north of Karabag village, another scatter of ceramic fragments was detected in the field (POL\_175). The finds belong to the Early Medieval period (three frags.), High Medieval period (11 frags.) and to the Pre-Modern period (13 frags.).

Pottery from a garden (POL\_159) located in the central part of the village (just opposite Bilgardon (KuPi\_047, across the Karabag Say), was dated to the Medieval and Pre-Modern periods, more precisely to the Late Medieval period (17<sup>th</sup> c.; 13 frags.), Pre-Modern period (eight frags.), Early Medieval period (5<sup>th</sup>–6<sup>th</sup> c.; eight frags.), and only two fragments belong to the 12<sup>th</sup> c.

Scatter (POL\_183) was detected in yet another garden, where the majority of ceramic fragments belong to the High Medieval period (12<sup>th</sup> c.). In the same place was also found one fragment roughly dated to the 4<sup>th</sup> c. AD, which is, so far, rare in the Kugitang piedmonts.

In a garden marked as POL\_148 in the vicinity of Kurgantepa (KuPi\_055) a large group of ceramic fragments were detected dated to the High Medieval period (18 frags.).

Some archaeological material was detected also in other parts of the village of Karabag, we limit ourselves, however, to the above listed examples with more substantial results, while the find spots with less numerous fragments are summarized in table 1 (**Tab. 1**).

## CEMETERIES AND CENTRAL PROMINENT TOMBS

Since the present burial grounds have often been continually used in various historical periods or are located in areas of previous human activities, they could help to unearth old cultural levels thanks to disrupting the surface and subsurface layers during grave digging. We also surveyed and documented these sites. If there were surface finds, we marked these cemeteries as polygons with finds (POL\_XX), in case there were no finds, on the other hand, such cemeteries were marked as places with a negative result (NEG\_XX). Attention was also paid to the centrally placed prominent tombs, which we understand as burials of important local authorities, most probably religious ones and thus we call them “graves of imams”. These are sometimes an integral part of a cemetery, sometimes they are located separately.



Five cemeteries have been surveyed in the village of Karabag. Three of them (Kurgantepa – KuPi\_055; Bakhodin Balogardon – KuPi\_045 and Gilyam Pusht – NEG\_052), are characterized above. No finds have been detected in the remaining two cemeteries.

The cemetery called Koziz (NEG\_054) lies on the right bank of the Karabag Say (200 m to the west of the river) to the north of the Karabag village, and it is still used for burying. The whole area of this cemetery has the shape of a high mound with very steep slopes and covers an area of 0.5 ha.

On the opposite bank of the Karabag Say (200 m to the east of the river; 400 m to the east of the Koriz cemetery) is situated another cemetery, which is named after the central grave (Jalavli Mozor Bobo – Uzb. “Cemetery of the Grandfather Jalavli”; NEG\_055). It is not used today, even the area of the cemetery (0.5 ha) is not delimited by a fence. The area of the burial ground is situated on a platform which is elevated ca. 2 m above the surrounding terrain.

As in the other oases, we detected several prominent tombs (perhaps graves of imams) in the Karabag village. They are typically covered with a small house made of stones/mud bricks/concrete, and often have a ritual function in the life of the local inhabitants. Jalavli Ota (KuPi\_053; Uzb. “Father Jalavli”) is connected with the old burial ground of a similar name (Jalavli Mozor Bobo – Uzb. “Cemetery of the Grandfather Jalavli”; NEG\_055). The locals believe that a ritual linked to this place can heal cattle disease – if the cattle are ill, they bring them here and walk with them around the grave counter clockwise three times. In this way, the animal is supposed to be cured. The two other prominent tombs are isolated without any connection with an earlier burial ground that would still be remembered by the inhabitants, and the term “central grave” is therefore less appropriate. The Roy Bobo (KuPi\_052) lies in the south part of Karabag. Around this grave, we encountered various traces of digging damage that was connected to the construction of houses in the vicinity, but there were no finds. The Khodzhulmat Yasaul (KuPi\_054) lies in the vicinity of KuPi\_054 at the western margin of the Karabag village close to the right bank of the seasonal river.

## KAMPYRTEPA

### PRESENT STATE OF THE VILLAGE AND THE NARRATIVE SOURCES

The third of the researched oases was the smallest one, it is situated where the present-day village of Kampyrtepa is. The oasis is connected with the Zarabag village by an asphalt road. It spreads 4.5 km along both banks of the Kampyrtepa Say, a seasonal river flowing from the Kugitang Mountains and becoming the left tributary of the Machay River. The oasis extends over an area of 170 ha.

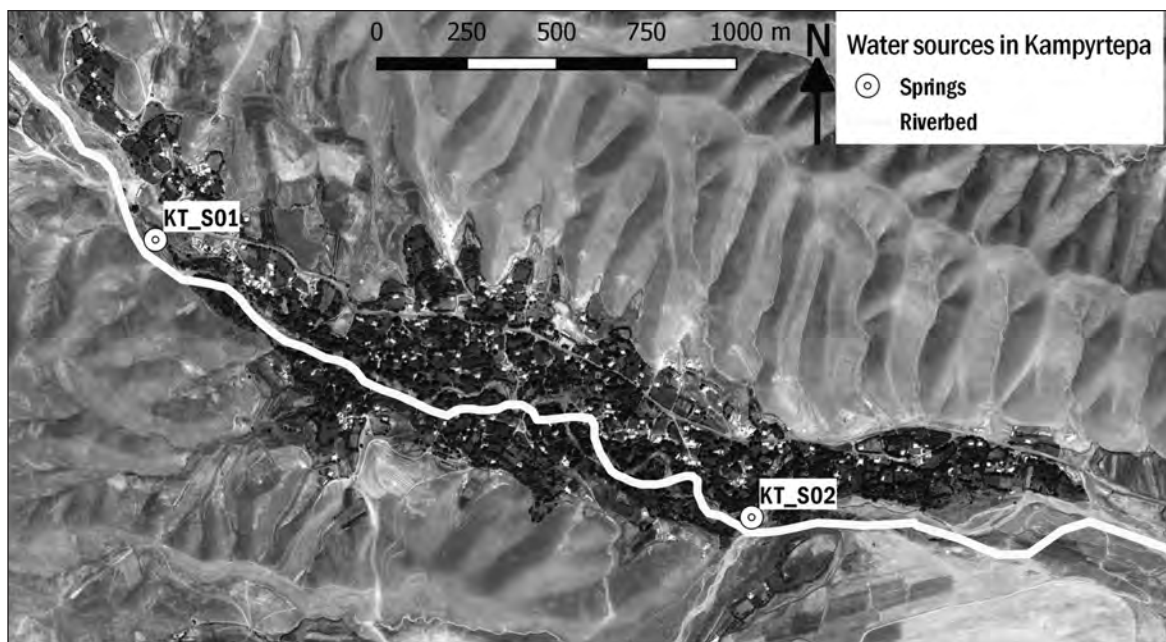
The inhabitants are mostly Uzbeks and according to the census in 2016, in the village of Kampyrtepa, there lived 1,400 people grouped in 599 families.

A legend associated with Kampyrtepa was recorded in the village of Zarabag in 2016. According to this legend, the inhabitants of Kampyrtepa left their village for unknown reasons and wanted to move to the village of Pashkhurt. However, they were not accepted and therefore they continued to the village of Zarabag, where they successfully settled among the local inhabitants. The incoming Kampyrtepaens were subsequently buried in a nameless burial ground in Zarabag. Thus, the burial ground (KuPi\_X013; POL\_108),<sup>14</sup> should be the cemetery of the inhabitants originally from Kampyrtepa.

<sup>14</sup> In the preliminary report for the Zarabag Oasis published in *Studia Hercynia* XIX it is labelled as burial ground B3 (AUGUSTINOVÁ *et al.* 2015, 273).

## WATER SOURCES

In the smallest oasis we detected only two springs (**Fig. 13**). The first of them, called Bosh Buloq, is situated in the northern part of the village (**Fig. 14**; KT\_So1; Uzb. “Spring of the Chief”) and springs in the vicinity of the isolated grave (KuPi\_o6o) named Buloq Ota (Uzb. “Father of the spring”). The second one Okhun Buloq (KT\_So2; “Okhun’s spring”) is situated in the southern part of the village.



**Fig. 13: Water sources - springs - in the Kampyrtepa Oasis (map by A. Augustinová).**



**Fig. 14: The Bosh Buloq (KT\_So1) - spring in the northern part of the village of Kampyrtepa (photo by A. Augustinová).**

## SIGNIFICANT MORPHOLOGICAL FEATURES AND LOCATIONS WITH ARCHAEOLOGICAL EVIDENCE

During the survey, 11 places with archaeological finds were detected (POL\_197-207; **Tab. 1**) as well as six places with negative results (NEG\_058-063).

Three sites in the village of Karmpyrtepa contain the word *tepa* in their name, but only on the surface of the first of them (Eishntepa - KuPi\_056; POL\_201) a significant amount of pottery fragments have been detected. Fewer fragments have been collected in Oladüsttepa (KuPi\_057; POL\_197) while the third site - Seyidtepa (KuPi\_058; POL\_204) yielded only several fragments of Pre-Modern period pottery.

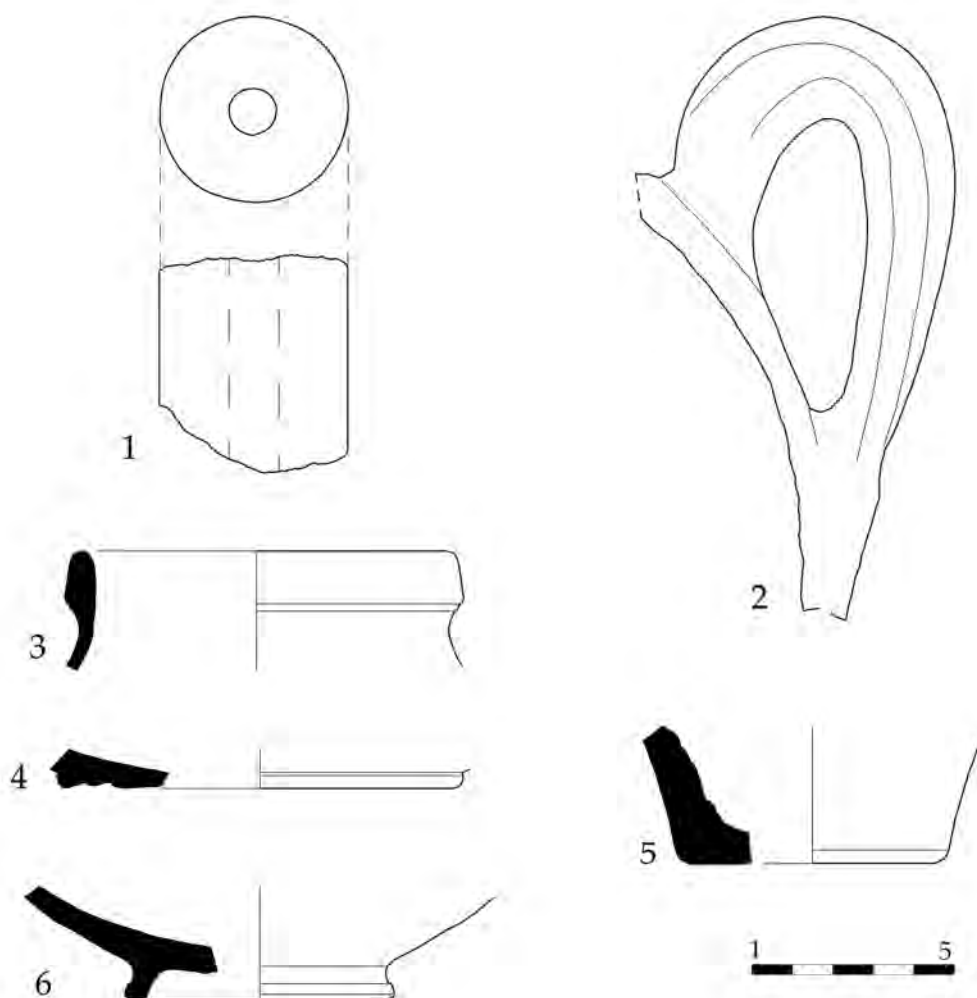


**Fig. 15: South-west view of the site Eishntepa (KuPi\_056) in the Kampyrtepa Oasis (photo by A. Augustinová).**

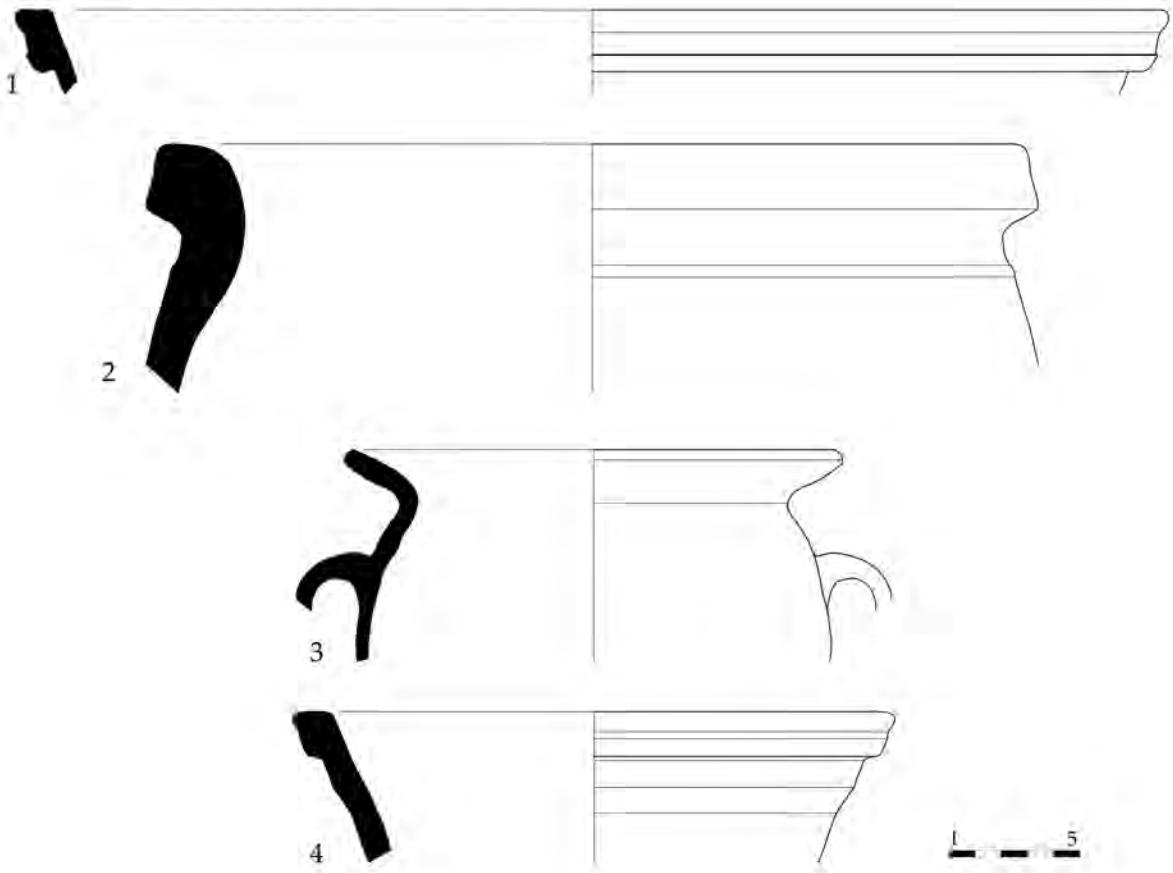


**Fig. 16: The stone structures detected in the disrupted surface on the site Eishntepa (KuPi\_056) (photo by A. Augustinová).**

Eishntepa, the first of them (**Fig. 15**; KuPi\_056; POL\_201), is situated in the western part of Kampyrtepa across the main road from the cemetery of Kampyrtepa Ota. The upper platform (70×45 m) of this site is elevated about 6 m above the surrounding surface, and there are several accumulations of stones (remains of graves? / stone structures?) visible on the platform. On the west side of the Eishntepa the surface is disturbed by a bulldozer built dust-road which – cut deep into the terrain – reveals two clearly recognizable linear stone structures, probably the remains of walls (**Fig. 16**). A large collection of ceramic fragments has been collected (58 items) that belong to several periods (**Tab. 1** and **2**) – the Bronze Age (one frag.), 2<sup>nd</sup>–3<sup>rd</sup> c. AD (four frags.), 4<sup>th</sup> c. AD (two frags.), 5<sup>th</sup>–6<sup>th</sup> c. AD (three frags.), 10<sup>th</sup>–12<sup>th</sup> c. (26 frags.) and 18<sup>th</sup>–19<sup>th</sup> c. (22 frags.), (**Figs. 17:1–4** and **6; 18:2–4**). Besides these fragments, also an entire storage vessel may have been found here; nowadays it is still in use in a neighbouring garden (**Pl. 4/6**).



**Fig. 17: Selected pottery from the surface survey in the Kampyrtepa Oasis. Findspot and dating: 1–4 and 6: Eishn Tepa (KuPi\_056), 1 – Bronze Age, 2 – High Medieval (12<sup>th</sup> c.), 3 – Late Kushan (4<sup>th</sup>c.), 4 – Kushan period (2<sup>nd</sup>–3<sup>rd</sup> c.), 6 – High Medieval (12<sup>th</sup> c.); 5 – Oladüst Tepa (KuPi\_056), High Medieval (12<sup>th</sup> c.); (drawing by T. Kolmačka).**



**Fig. 18: Selected pottery from the surface survey in the Kampyrtepa Oasis. Findspot and dating: 1 - Kampyrtepa Ota (KuPi\_059), High Medieval period (12<sup>th</sup> c.); 2-4 - Eishn Tepa (KuPi\_056), High Medieval period (10<sup>th</sup> c.); (drawing by T. Kolmačka).**

The second site named Oladüsttepa (KuPi\_057; POL\_197) is situated in the western part of Kampyrtepa on the right bank of the seasonal river. It is situated on a mound that with its height of about 10 m overlooks the surrounding terrain with the upper flat platform (90×25 m). The mound seems to be of a natural origin: if there was any settlement, it utilized this natural feature. Based on the testimony of the inhabitant of a nearby house, a ceramic vessel was found there, but it was taken away by the locals and we could not study it. The surface of the upper platform was disrupted, but only several fragments of pottery were found there, most of them detected in the place where the above mentioned ceramic vessel may have been found.

The third place with the element “tepa” in its name, is called Seyidtepa (KuPi\_058; POL\_104). This large mound is situated in the south-east part of the Kampyrtepa village. Even though no ceramic fragments were found there (apart from a mere three fragments of the Pre-Modern period), there are several stone structures on the surface. One of them could be interpreted as a kurgan, the rest of them are unclear accumulations of stones. The site has been disrupted by digging soil which revealed a large section through the subsoil. There are, however, no signs of the cultural levels visible in this section.

Although a large assemblage of archaeological material was found in the village of Kampyrtepa, its analysis shows that its large percentage is dated to the Pre-Modern period (18<sup>th</sup>-19<sup>th</sup> c.).

Most of the finds dated to the earlier periods come from the above mentioned tepas, burial grounds, and morphological features. There are only two other places (POL\_199, POL\_206), where among the Pre-Modern pottery one fragment dated into 12<sup>th</sup> c. was found. The first fragment was nevertheless found on a path amidst gardens (POL\_199) and this fact prevents a hypothetical connection with any potential site. The second findspot represents the garden (POL\_206) in the far south-east end of the village, where five fragments belonging to the High Medieval period (12<sup>th</sup> c.) were found.

#### CEMETERIES AND PROMINENT TOMBS

Only one cemetery is situated in the village of Kampyrtepa. It is named Kampyrtepa Ota (Uzb. “The father of Kampyrtepa”) and 17 pottery fragments were found there (Bronze Age – one frag.; late 4<sup>th</sup>–5<sup>th</sup> c. AD – two frags.; High Medieval period (12<sup>th</sup> c.) – seven frags.; Pre-Modern period (18<sup>th</sup>–19<sup>th</sup> c.) – seven frags.).

Two central graves were noticed in Kampyrtepa. The first of them (KuPi\_059; Kampyrtepa Ota) represents the central grave of the burial ground of the same name. The second one (KuPi\_060; Boloq Ota – Uzb. “Father of the spring”), lies isolated at the northern margin of the village near a spring (KT\_So1, Bosh Buloq), and none of the respondents remembered any connection of this place with a burial ground.

#### ZARABAG

The exhaustive information about the largest oasis of the studied area, Zarabag, which extends over an area of ca. 425 ha including its general information, water sources, morphological features etc. has been already published in the preliminary report for the season 2015 (AUGUSTINOVÁ *et al.* 2015, 262–281), hence we summarize here only the newly gained data. All of the data (including also the features from the last season)<sup>15</sup> are summarized in the tables (**Tab. 1** and **2**).

#### NEWLY DETECTED MORPHOLOGICAL FEATURES AND THE LOCATIONS WITH ARCHAEOLOGICAL EVIDENCE

A site with the local name Bobolangar (Uzb. “Old man’s shadoof/well pole”; KuPi\_008; POL\_039; **Fig. 19**) located in the western part of the Zarabag village (998 m.a.s.l.), deserves the main attention. It is situated on the small spur of a descending dry stony ridge at the approximate distance of 120 m from the right bank of the seasonal river of Machayly. It is elevated 15 m above the spring of an identical name (ZA\_So8 – Bobolangar). On the summit’s surface, there are the clearly visible remains of the stone structures of the two basic shapes: rectangular and circular (d. ca. 1.5 m), preliminarily interpreted as graves. A ditch, perhaps a water canal, which is not used in the present day, skirts this small mound. There are two substantial terrain disruptions (on the north-west and south-east sides of the site), caused by clay digging. Most of the rich archaeological material comes from these two spots, but numerous ceramic fragments were also scattered on the surface of the site. Altogether 136 ceramic fragments were found – 50 sherds including one unique fragment of *dastarkhan* (“a ritual table”, **Pl. 4/7**) belong to the Late Bronze Age (Sapalli Culture; **Figs. 20** and **21**). One fragment is dated to the

<sup>15</sup> The category of the features and objects compared to the preliminary classifications of the previous season in Zarabag (AUGUSTINOVÁ *et al.* 2015, 279–281) were reassessed under the newly gained data.

Early Iron Age (Yaz I Culture), six fragments belong to the Achaemenid period (5<sup>th</sup>–6<sup>th</sup> c. BC), and one fragment belongs to the High Medieval period (11<sup>th</sup>–12<sup>th</sup> c.). The most numerous finds belong to the Late Bronze Age and based on the good state of preservation of the finds (large parts of vessels preserved), this site may possibly be a burial ground.



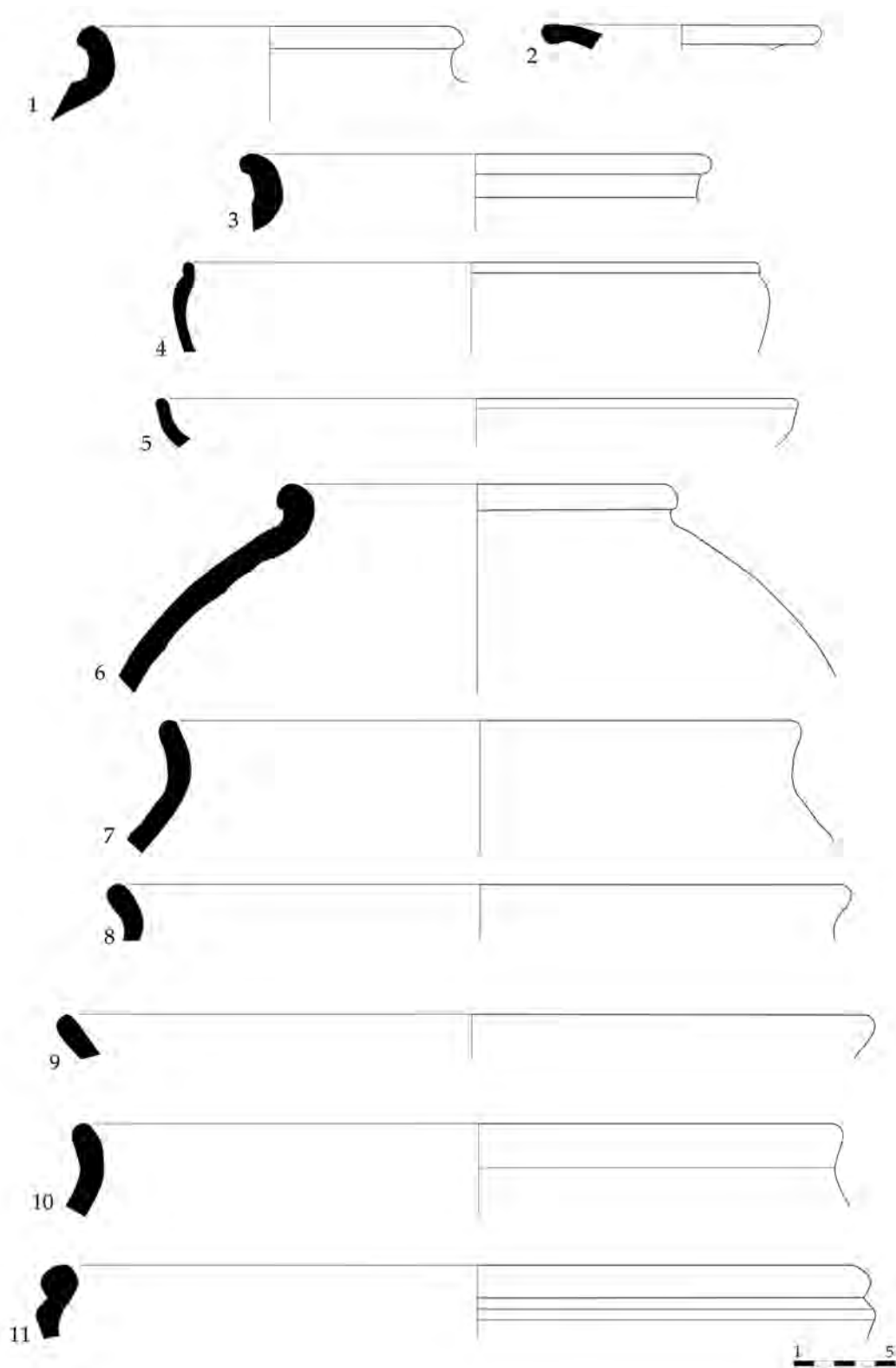
**Fig. 19: The view of the site of Bobolangar (KuPi\_008) from the south-west (photo by A. Augustinová).**

In close proximity – to the south-west of Bobolangar (KuPi\_008), is situated a second site, nick-named Bobolangar-2 (KuPi\_009; POL\_104). It forms a flat promontory, its surface is again covered with stone rectangular structures, and as in the case of Bobolangar (KuPi\_008), we interpret them as graves.

The third small ridge labelled Bobolangar-3 (KuPi\_010; POL\_107) lies in the neighbourhood of Bobolangar-2. A stone platform with a square ground plan (6×6 m) is the only feature on the top of this mound.

Bobolangar lies 1.4 km to the north of the site of Tulki Tapa (KuPi\_011) detected by L. Stančo during his survey. The site probably belongs to the same period – the Bronze Age (STANČO *et al.* in preparation).

We also focused on the morphological features of likely anthropic origin in the landscape, although without sufficient archaeological material to date them. Nevertheless, it is also necessary to take note of them. Most of them were already mentioned in the previous preliminary report (AUGUSTINOVÁ *et al.* 2015, 279–281). Two features situated 2.9 km to the south-east of the Zarabag Oasis in the direction of the village of Kayrit, that are very similar to (KuPi\_025) were newly discovered. Both features that are attached to each other are formed by the remains of the stone walls of square ground plan (KuPi\_043 – 9×9 m; KuPi\_044 – 11×12 m). This place is already known from the prospection of L. Stančo as Kayrit XV (STANČO 2016, 83, Tab. 2); one fragment of pottery dated to the Medieval period was found there.



**Fig. 20: Selected pottery from the surface survey in the Zarabag Oasis belonging to the Bronze Age site Bobolangar (KuPi\_008); (drawing by L. Damašek and A. Augustinová).**



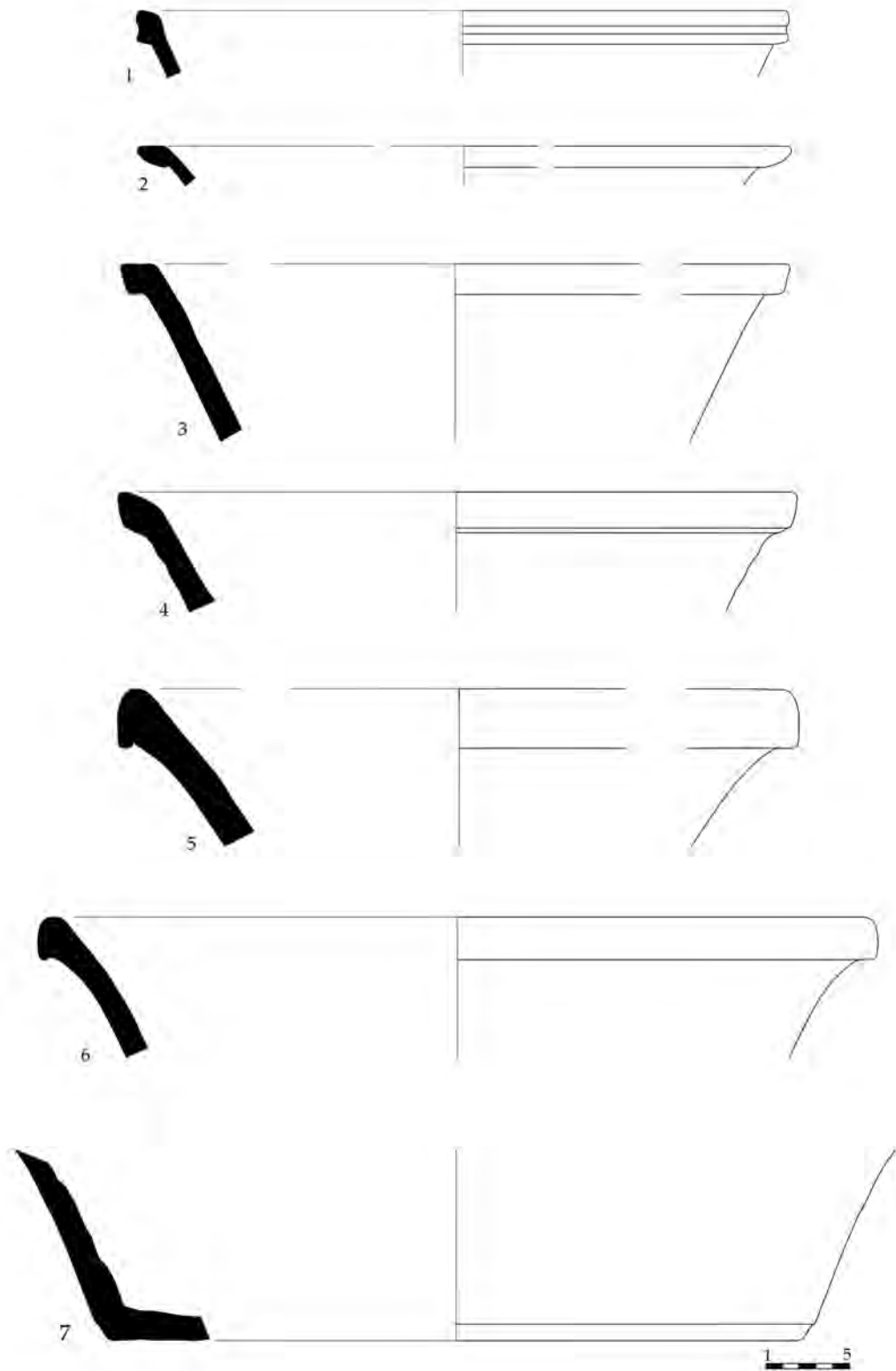


Fig. 21: Selected pottery from the surface survey in the Zarabag Oasis belonging to the Kushan Sassanian period (4<sup>th</sup>-5<sup>th</sup> c.). 1-3 and 5-7 POL\_o10; 4 POL\_o23 (drawing by L. Damašek and A. Augustinová).

## FINDS FROM THE OASES AND THEIR VICINITY

During the surface survey in these three oases, a huge body of archaeological finds was collected, represented mostly by ceramic fragments. They allow us to establish the chronology of the settlement in the particular places. In all three oases, 2,367 ceramic fragments were collected altogether, and it was possible to date as many as 1,849 of them. Out of these, 1,377 pottery fragments (928 datable) come from the Zarabag Oasis, 842 fragments (781 datable) from the Karabag Oasis, and only 148 fragments (140 datable) from the oasis of Kampyrtepa.

Thanks to the implementation of a metal detector into the survey,<sup>16</sup> the find collection was enriched by metal artefacts including coins (altogether 34 coins from the oases of Zarabag and Karabag) which are planned to be published separately soon.

Among the finds an artefact found in the Shalkan Say (POL\_106) in the south margin of the Zarabag village in a spot, where the Shalkan River leaves the Zarabag village stands out. The small granite mortar (**Pl. 4/8**) belongs chronologically most probably to the Iron Age (Yaz I culture). Based on the analogies we can assume that it served for the rituals practised in Zoroastrinism namely for the making of the potion *haoma* (ABDULLAEV 2009, 89). Apparently this mortar had been brought to its find place by the water of the Shalkan River from a site situated up stream. The potential place of origin could have been a place in the centre of the Zarabag Oasis (POL\_003), where the scatter of the Early Iron Age finds was found. But it is also possible that there are other sites of the Yaz Culture close to the stream of Shalkan River, to the north of the Zarabag Oasis in the direction of the village of Shalkan. The indispensable part of the equipment used for the *haoma* making was the pestle as we can see in the collection of the finds e.g. on a nameless tepa in the Marshade (PUGACHENKOVA – RTVELADZE – KATO 1991, fig. 7, 8).

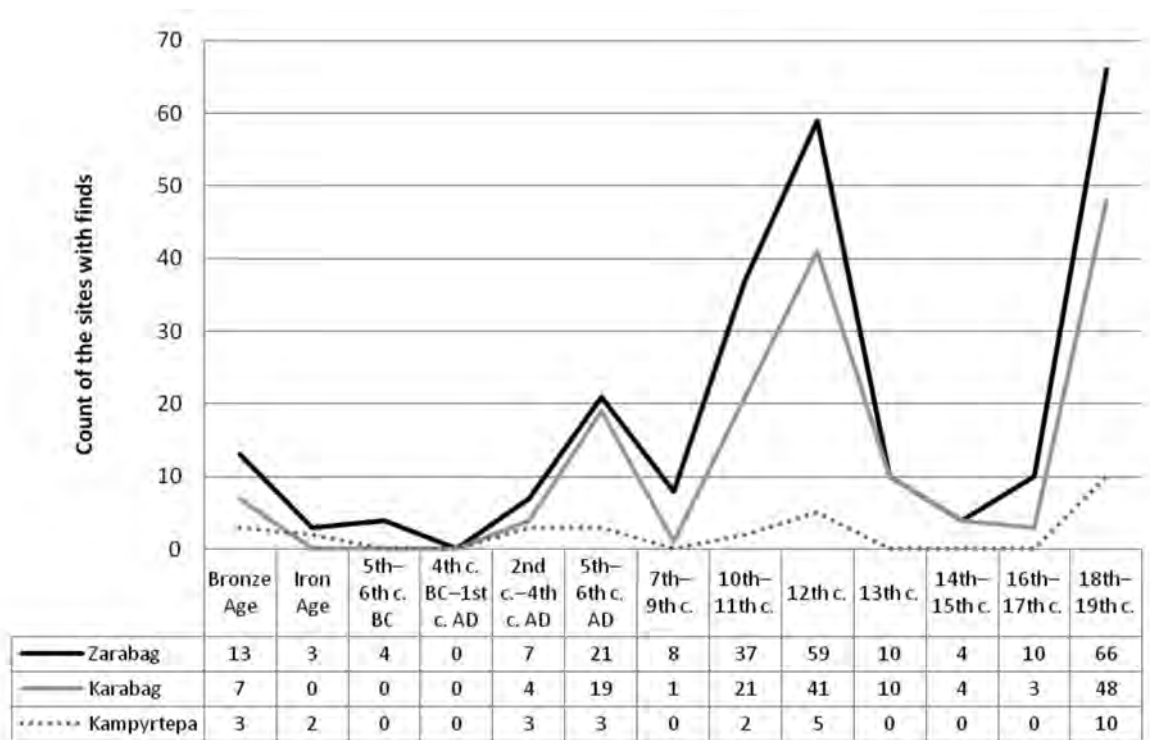
## CONCLUSIONS

The large amount of archaeological material, especially pottery fragments, allows us to postulate some general characteristics of the settlement development of the oases in the northern Pashkhurt Basin and related processes. Statistically significant numbers of well-dated finds transformed into an absolute chronological framework show similar or almost identical tendencies and settlement dynamics in all three of the researched oases (**Fig. 22**).

The earliest settlement phase that is detected in each oasis belongs to the Late Bronze Age (Sapalli Culture). There are 23 places with finds belonging to this period detected during our surveys.

In Kampyrtepa, the concentration of the pottery fragments belonging to the Bronze Age was not high, nevertheless the ceramic fragments were found in three places – in the site of Eishn-tepa and in its close vicinity. In Karabag, the Bronze Age finds were detected in seven places and it is possible to distinguish three clusters of these findspots (or potential settlement-sites that have been disrupted by the later cultural impacts). The rest of the material was found in the Zarabag Oasis and its surroundings (13 spots with finds). There are three clusters in the area of the oasis of Zarabag plus the sites in its vicinity (Bobolangar – KuPi\_008/POL\_039, Tulkitepa – KuPi\_011/POL\_085, Koshtepa – KuPi\_001/POL\_023), and the concentration of the polygons with finds (POL\_043, POL\_113, POL\_130) in the north-west of Zarabag.

16 The metal detector survey as well as the subsequent conservation and documentation of the finds were conducted by T. Smělý.



**Fig. 22: The settlement dynamic in the three researched oases in the Kugitang Piedmonts (Zarabag, Karabag and Kampyrtepa) during the specific periods.**

The Iron Age (Yaz Culture) was detected only in the oases of Zarabag and Kampyrtepa. In Kampyrtepa, the fragments of pottery dated to the Early Iron Age (Yaz I Culture) were found on the site of Eishntepa (KuPi\_056), in the oasis of Zarabag on the sites of Bobolangar (KuPi\_008), Koshtepa-2 (KuPi\_002), and on the plot in the centre of Zarabag (POL\_003).

The settlement evidence and density of sites decreases in the following periods even more. We found only three places with material dated to the 5<sup>th</sup>–6<sup>th</sup> c. BC and they were, moreover, encountered only in the Zarabag Oasis (represented by only 11 frags. of pottery). Unlike the Sherabad Oasis, piedmont steppe does not seem to be intensely settled during the Achaemenid period.

A substantial change occurred at the end of the Iron Age. From the beginning of the 4<sup>th</sup> c. BC on, until the end of the 1<sup>st</sup> c. AD there is no archaeological evidence of human activities in the researched area. A probable explanation for this gap is connected with the military campaign of the Greco-Macedonian armies under Alexander the Great, whose operations led to the abandonment of many settlements of the whole Surkhan Darya Valley and ensuing depopulation of the entire region (STANČO – TUŠLOVÁ eds., in print, chapter 5.4).

The population growth and exploitation of the area starts again only in the 2<sup>nd</sup> c. AD; there are 14 places detected with finds dating to the period between the 2<sup>nd</sup> and 4<sup>th</sup> c. AD. In Kampyrtepa, the finds are concentrated in three places in the vicinity of the Eishntepa as was the case with the Bronze Age finds. In Karabag, ceramic fragments dated to these centuries were found in four places spread out across the whole area of the oasis, while in the Zarabag Oasis seven places were detected.

In the Early Medieval period human activities increased even more significantly, as shown by the available material evidence. There are 43 places with finds of the 5<sup>th</sup>–6<sup>th</sup> c. AD, and nine

places with finds belonging to the 7<sup>th</sup>–9<sup>th</sup> c. (although none in Kampyrtepa and only one in Karabag).

The quantity of finds significantly grows with material of the High Medieval period. The 10<sup>th</sup>–12<sup>th</sup> c. is represented by 60 places with archaeological material belonging to the 10<sup>th</sup>–11<sup>th</sup> c. and 104 places dated to the 12<sup>th</sup> c.; in this period the settlement was detected not only in the area of the present-day oases themselves, but also in their surroundings.

This settlement heyday was followed by a strong decrease in the 13<sup>th</sup> c. with archaeological evidence in 13 places (none in Kampyrtepa and only three in Karabag), and this fall and stagnation continued in the following centuries. There is almost no settlement evidence in the High Medieval period of the 14<sup>th</sup>–15<sup>th</sup> c. which is represented by six places with finds, but the pottery fragments belonging to this period are represented only by three fragments from the Karabag Oasis and two fragments from the Zarabag Oasis. The rest of the finds consist of 16 coins from Zarabag, and three coins from Karabag. Again, the well-known historical events of the early 13<sup>th</sup> c. could help to explain our data on this period: during or after the Mongol invasion many settlements of the broader region were abandoned and the area did not recover from this disaster for many centuries (STANČO – TUŠLOVÁ eds. in print, chapters 5.7 and 5.8).

The evidence of human activities connected with the settlement slightly increases again in the Late Medieval period (16<sup>th</sup>–17<sup>th</sup> c.), since 13 find places with ceramic fragments dated to this phase were found here (but none of them in Kampyrtepa).

The Pre-modern period is represented most plentifully, more precisely by as many as 124 places with finds in all three oases. Note, however, that in comparison with the settlement evidence of the High Middle Ages, the number is quite similar.

A comparison of the data from the individual oases shows remarkable characteristics, among them obvious a similarity between the “small tepa” sites in each of the oases: in Zarabag it is the nameless tepa: KuPi\_013; in Karabag Kush-Vakttepa: KuPi\_051; and in Kampyrtepa the site of Eishntepa: KuPi\_056. All of these three sites have a similar shape of a small but significantly elevated tepa: they are of 3–5 m higher than the surrounding terrain with a diameter of ca. 40–50 m. They all produced ceramic fragments belonging to the Late Bronze Age, Early Medieval period (4<sup>th</sup>–6<sup>th</sup> c.), and to the High Medieval period (12<sup>th</sup> c.) confirming perfectly the three heyday phases of the local settlement history in the northern Pashkhurt Basin.

This report summarizes the data gained in summer 2016 during the second survey season and presents its basic evaluation. The research in the oases in the piedmonts of the Kugitang Mountains will be continuing in the forthcoming season – summer 2017. The complete analyses and evaluation of the data will be presented at the end of the project.

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Polygon No.	Coordinates	Village	Type of survey area	Quantity of finds (dated)	Type of finds	Bronze Age	Early Iron Age (Yaz I)	Middle and Late Iron Age (Yaz II/Yaz III)	6 <sup>th</sup> -5 <sup>th</sup> c. BC	2 <sup>nd</sup> -4 <sup>th</sup> c. AD	5 <sup>th</sup> -6 <sup>th</sup> c. AD	7 <sup>th</sup> -9 <sup>th</sup> c. AD	10 <sup>th</sup> -11 <sup>th</sup> c. AD	12 <sup>th</sup> c. AD	13 <sup>th</sup> c. AD	14 <sup>th</sup> -15 <sup>th</sup> c. AD	16 <sup>th</sup> -17 <sup>th</sup> c. AD	18 <sup>th</sup> -19 <sup>th</sup> c. AD	
POL_161	66.81022 37:77121	Karabag	garden	13 (9)	pottery	4					3								2
POL_162	66.81072 37:77086	Karabag	garden	2 (2)	pottery						1								1
POL_163	66.81052 37:77052	Karabag	garden	12 (2)	pottery									2					
POL_164	66.81096 37:76490	Karabag	garden	15 (15)	pottery						1			9	2				3
POL_165	66.80995 37:76503	Karabag	garden	2 (2)	pottery						1								1
POL_166	66.80854 37:77507	Karabag	garden	7 (7)	pottery									2	2				4
POL_167	66.80808 37:77608	Karabag	garden	2 (1)	pottery									1					
POL_168	66.81383 37:76795	Karabag	garden	2 (2)	pottery									1					1
POL_169	66.80612 37:77266	Karabag	find	13 (13)	pottery									4					6
POL_170	66.80652 37:77277	Karabag	garden	45 (43)	pottery	2					5			4					32
POL_171	66.80595 37:77324	Karabag	garden	3 (3)	pottery										3				
POL_172	66.80031 37:77954	Karabag	garden	3 (3)	pottery						1				2				
POL_173	66.81301 37:76976	Karabag	garden	10 (10)	pottery									2	2				8
POL_174	66.80689 37:77351	Karabag	garden	12 (10)	pottery						3							1	6
POL_175	66.80180 37:78589	Karabag	field	31 (27)	pottery						3				11				13
POL_176	66.80796 37:77157	Karabag	garden	16 (16)	pottery										9				6
POL_177	66.81067 37:76531	Karabag	garden	24 (24)	pottery					1	1				5				18
POL_178	66.81040 37:76570	Karabag	garden	13 (13)	pottery									2	2				11
POL_179	66.81009 37:76608	Karabag	garden	3 (2)	pottery									2					



Polygon No.	Coordinates		Village	Type of survey area	Quantity of finds (dated)	Type of finds	Bronze Age	Early Iron Age (Yaz I)	Middle and Late Iron Age (Yaz II/Yaz III)	6 <sup>th</sup> -5 <sup>th</sup> c. BC	2 <sup>nd</sup> -4 <sup>th</sup> c. AD	5 <sup>th</sup> -6 <sup>th</sup> c. AD	7 <sup>th</sup> -9 <sup>th</sup> c. AD	10 <sup>th</sup> -11 <sup>th</sup> c. AD	12 <sup>th</sup> c. AD	13 <sup>th</sup> c. AD	14 <sup>th</sup> -15 <sup>th</sup> c. AD	16 <sup>th</sup> -17 <sup>th</sup> c. AD	18 <sup>th</sup> -19 <sup>th</sup> c. AD	
POL_201	66.67631	37:78364	Kampyr-tepa	tepa	58 (58)	pottery	1				6	3		7	19					22
POL_202	66.67699	37:78360	Kampyr-tepa	garden	27 (26)	pottery	2	6			5	4								13
POL_203	66.67701	37:78501	Kampyr-tepa	burial ground	17 (17)	pottery	1				2	2			7					7
POL_204	66.69305	37:77790	Kampyr-tepa	tepa	3 (3)	pottery														2
POL_205	66.69102	37:78021	Kampyr-tepa	garden	2 (2)	pottery														2
POL_206	66.69812	37:77950	Kampyr-tepa	garden	5 (5)	pottery										3				2
POL_207	66.69325	37:77966	Kampyr-tepa	garden	3 (3)	pottery														3
POL_208	66.80672	37:76881	Karabag	garden	2 (2)	pottery										2				

**Tab. 1: The surveyed polygons with finds (POL\_001-208) in the oases of Zarabag, Karabag and Kampyrtepa.**

Code	Local Name	Village	Coordinates		Quantity of finds (dated)	Type of feature	Type of finds	Dating (quantity)	Polygon No.
KuPi_001	Kosh-tepa	Zarabag	66.76292452	37.745028036	28 (16)	tepa	pottery	Sapalli (Late Bronze Age) (5), 4 <sup>th</sup> c. (1), 18 <sup>th</sup> /19 <sup>th</sup> c. (2), 18 <sup>th</sup> /19 <sup>th</sup> c. mountain area (7)	POL_023
KuPi_002	Kosh-tepa-2	Zarabag	66.763079921	37.745474959	15 (9)	surface disruption	pottery	Yaz II/III (Early Iron Age) (5), 5 <sup>th</sup> -6 <sup>th</sup> c. (1), 12 <sup>th</sup> -13 <sup>th</sup> c. (1), 18 <sup>th</sup> /19 <sup>th</sup> c. (1), 18 <sup>th</sup> /19 <sup>th</sup> c. mountain area (1)	POL_024
KuPi_003	Karaul-tepa	Zarabag	66.749028163	37.785670459	0 (0)	x	x	x	NEG_027
KuPi_004	x	Zarabag	66.782624004	37.760404386	5 (5)	tepa	pottery	12 <sup>th</sup> c. (3), 18 <sup>th</sup> -19 <sup>th</sup> c. (2)	POL_109
KuPi_005	Dil-anatepa	Zarabag	66.729326751	37.776512057	0 (0)	tepa	x	x	NEG_028
KuPi_006	Vayorona/Erona	Zarabag	66.731507471	37.775841756	0 (0)	tepa	x	x	NEG_029
KuPi_007	x	Zarabag	66.732156565	37.774467794	0 (0)	tepa	x	x	NEG_030
KuPi_008	Bobolanger	Zarabag	66.740390000	37.762070000	68 (62)	burial ground/ tepa?	dastarkhan, pottery	Bronze Age (29), Sapalli (Late Bronze Age) (22), Yaz I (Early Iron Age) (1), 5 <sup>th</sup> -6 <sup>th</sup> c. (6), 11 <sup>th</sup> -12 <sup>th</sup> c. (1), 18 <sup>th</sup> -19 <sup>th</sup> c. (2)	POL_039
KuPi_009	Bobolanger-2	Zarabag	66.741699000	37.761463000	13 (1)	burial ground	pottery	18 <sup>th</sup> -19 <sup>th</sup> c. (1)	POL_104
KuPi_010	Bobolanger-3	Zarabag	66.742412000	37.760477000	1 (0)	unspecified feature	pottery	x	POL_107
KuPi_011	Tulkitepa	Zarabag	66.749430000	37.751390000	45 (37)	tepa	grinding slab, pottery	Sapalli (Late Bronze Age) (20), 12 <sup>th</sup> c. (14), 18 <sup>th</sup> -19 <sup>th</sup> c. (4)	POL_085
KuPi_012	x	Zarabag	66.719005000	37.769516000	4 (4)	bank-like feature	pottery	Sapalli (Late Bronze Age) (3), 17 <sup>th</sup> c. (1)	POL_043
KuPi_013	x	Zarabag	66.744283754	37.76789437	10 (6)	burial ground	pottery (incl. a whole vessel)	Sapalli (Late Bronze Age) (1), 4 <sup>th</sup> c. (2), 5 <sup>th</sup> -6 <sup>th</sup> c. (2+1 vessel)	POL_108
KuPi_014	Kurukhsay Tepa	Zarabag	66.755105043	37.768986532	1 (0)	tepa	pottery	x	NEG_024
KuPi_015	x	Zarabag	66.780619000	37.759905000	0 (0)	semicircular feature	x	x	NEG_032
KuPi_016	Vayorona/Erona	Zarabag	66.733624237	37.774059512	0 (0)	bank-like feature	x	x	x
KuPi_017	x	Zarabag	66.722983075	37.771041356	0 (0)	kurgan	x	x	x
KuPi_018	x	Zarabag	66.722920043	37.770967344	0 (0)	kurgan	x	x	x
KuPi_019	x	Zarabag	66.722775958	37.771029454	1 (0)	kurgan	x	x	POL_019
KuPi_020	x	Zarabag	66.723324805	37.770915627	0 (0)	kurgan	x	x	x
KuPi_021	x	Zarabag	66.745264018	37.7828661607	0 (0)	pit unclear origin	x	x	NEG_31



KuPi_022	x	Zarabag	66.785837626	37.759176102	1 (1)	pit unclear origin	pottery	12 <sup>th</sup> c.	POL_27
KuPi_023	x	Zarabag	66.742863000	37.781070000	0 (0)	pit unclear origin	x	x	x
KuPi_024	x	Zarabag	66.746750800	37.782275453	0 (0)	mound feature	x	x	x
KuPi_025	x	Zarabag	66.771625774	37.760569761	0 (0)	square feature	x	x	x
KuPi_026	x	Zarabag	66.745264018	37.782661607	0 (0)	circular feature	x	x	x
KuPi_027	x	Zarabag	66.719544819	37.776658488	0 (0)	circular feature	x	x	x
KuPi_028	x	Zarabag	66.719498383	37.776764939	0 (0)	circular feature	x	x	x
KuPi_029	x	Zarabag	66.719691753	37.776798634	0 (0)	circular feature	x	x	x
KuPi_030	x	Zarabag	66.758239120	37.766691819	1 (0)	revision - Zarabag I-II	pottery	x	x
KuPi_031	x	Zarabag	66.756735000	37.770556000	4 (0)	revision - Zarabag IV	pottery	x	x
KuPi_032	x	Zarabag	66.778016000	37.755062000	0 (0)	revision - Zarabag III	x	x	x
KuPi_033	Yakadarakh	Zarabag	66.707258000	37.796702000	0 (0)	bank-like feature	x	x	x
KuPi_034	x	Zarabag	66.723389000	37.787848000	0 (0)	kurgan	x	x	x
KuPi_035	x	Zarabag	66.723325000	37.787866000	0 (0)	kurgan	x	x	x
KuPi_036	x	Zarabag	66.723349000	37.787942000	0 (0)	kurgan	x	x	x
KuPi_037	x	Zarabag	66.725374000	37.787689000	0 (0)	kurgan	x	x	x
KuPi_038	x	Zarabag	66.725318000	37.787712000	0 (0)	kurgan	x	x	x
KuPi_039	x	Zarabag	66.725533000	37.787896000	0 (0)	kurgan	x	x	x
KuPi_040	x	Zarabag	66.733761365	37.773950715	0 (0)	kurgan	x	x	x
KuPi_041	x	Zarabag	66.7322595610	37.775445711	0 (0)	kurgan	x	x	x
KuPi_042	x	Zarabag	66.732667862	37.775363149	0 (0)	kurgan	x	x	x
KuPi_043	x	Zarabag	66.786729000	37.748623000	0 (0)	square feature	x	x	x
KuPi_044	x	Zarabag	66.787082000	37.748607000	0 (0)	square feature	x	x	x
KuPi_045	Bakhodin Balogardon	Karabag	66.811264000	37.771758000	0 (0)	kurgan	x	x	NEG_057
KuPi_046	x	Karabag	66.810009000	37.765056000	2 (2)	tepa	pottery	5 <sup>th</sup> -6 <sup>th</sup> c. (1), 18 <sup>th</sup> -19 <sup>th</sup> c. (1)	POL_165
KuPi_047	Bilgardon	Karabag	66.802163000	37.775873000	11 (11)	tepa	pottery	12 <sup>th</sup> c. (4), 18 <sup>th</sup> -19 <sup>th</sup> c. (7)	POL_143
KuPi_048	x	Karabag	66.801995000	37.774390000	3 (3)	tepa	pottery	10 <sup>th</sup> c. (3)	POL_144

Code	Local Name	Village	Coordinates		Quantity of finds (dated)	Type of feature	Type of finds	Dating (quantity)	Polygon No.
KuPi_049	Daurontepa	Karabag	66.802298000	37.773175000	59 (57)	tepa	pottery	4 <sup>th</sup> c. (2), 5 <sup>th</sup> -6 <sup>th</sup> c. (12), 12 <sup>th</sup> c. (14), 18 <sup>th</sup> -19 <sup>th</sup> c. (31)	POL_145
KuPi_050	x	Karabag	66.800850000	37.769479000	4 (4)	tepa	pottery	11 <sup>th</sup> c. (1), 18 <sup>th</sup> -19 <sup>th</sup> c. (3)	POL_141
KuPi_051	Khush-Vakittepa	Karabag	66.809364000	37.771421000	43 (29)	tepa	pottery	Bronze Age (1), 4 <sup>th</sup> c. (1), 5 <sup>th</sup> c. (12), 5 <sup>th</sup> -6 <sup>th</sup> c. (3), 7 <sup>th</sup> c. (3), 11 <sup>th</sup> c. (3), 18 <sup>th</sup> -19 <sup>th</sup> c. (3)	POL_139
KuPi_052	Roy Bobo	Karabag	66.808567000	37.767565000	0 (0)	prominent tomb	x	x	x
KuPi_053	Jalavli Ota / Jalovle Mozor Bobo	Karabag	66.803331000	37.783570000	0 (0)	prominent tomb	x	x	NEG_055
KuPi_054	Khodzhumat Yasaul	Karabag	66.801963000	37.768961000	0 (0)	prominent tomb	x	x	x
KuPi_055	Kurgan Tepa	Karabag	66.805770000	37.770716000	92 (91)	still used cemetery	pottery	Late Bronze Age (2), 5 <sup>th</sup> -6 <sup>th</sup> c. (7), 10 <sup>th</sup> -12 <sup>th</sup> c. (55), 12 <sup>th</sup> -13 <sup>th</sup> c. (1), 18 <sup>th</sup> -19 <sup>th</sup> c. (26)	POL_142
KuPi_056	Eishntepa	Kampyr-tepa	66.676363000	37.783674000	58 (58)	tepa	pottery	Bronze Age (1), 2 <sup>nd</sup> -3 <sup>rd</sup> c. (4), 4 <sup>th</sup> c. (2), 5 <sup>th</sup> c. (1), 5 <sup>th</sup> -6 <sup>th</sup> c. (2), 10 <sup>th</sup> c. (7), 12 <sup>th</sup> c. (19), 18 <sup>th</sup> -19 <sup>th</sup> c. (22)	POL_201
KuPi_057	Oladustepa	Kampyr-tepa	66.665135000	37.788564000	17 (17)	tepa	pottery	10 <sup>th</sup> c. (4), 12 <sup>th</sup> c. (5), 18 <sup>th</sup> -19 <sup>th</sup> c. (8)	POL_197
KuPi_058	Seyidtepa	Kampyr-tepa	66.693030000	37.777872000	3 (3)	tepa	pottery	18 <sup>th</sup> -19 <sup>th</sup> c. (3)	POL_204
KuPi_059	Kampyrtepa Ota	Kampyr-tepa	66.677195000	37.785358000	0 (0)	prominent tomb	pottery	Bronze Age (1), end of the 4 <sup>th</sup> -5 <sup>th</sup> c. (2), 12 <sup>th</sup> c. (7), 18 <sup>th</sup> -19 <sup>th</sup> c. (7)	POL_203
KuPi_060	Buloq Ota	Kampyr-tepa	66.669960000	37.786310000	0 (0)	prominent tomb	x	x	x

**Tab. 2: The morphological features and noticeable spots (KuPi\_001-060) in the oases of Zarabag, Karabag and Kampyrtepa.**

Code	Village	Local Name	Coordinates	Coordinates	Elevation (m.a.s.l.)
ZA_So1	Zarabag	Kush Chinar Buloq	66.723295972	37.771942997	1046
ZA_So2	Zarabag	Qotur Buloq	66.739508752	37.76948534	1001
ZA_So3	Zarabag	no name	66.744846432	37.766777817	977
ZA_So4	Zarabag	Tupkhona Gumbaz	66.751651196	37.765298495	978
ZA_So5	Zarabag	Kurukhsay Buloq	66.755105043	37.768986532	984
ZA_So6	Zarabag	Raushan Buloq	66.745691411	37.767108735	1076
ZA_So7	Zarabag	Shturkhur Buloq	66.737984335	37.770008203	1035
ZA_So8	Zarabag	Bobolangar	66.740362000	37.762838000	974
ZA_So9	Zarabag	no name	66.732569000	37.767104000	1022
ZA_So10	Zarabag	Junus Buloq	66.738248000	37.768243000	1001
ZA_So11	Zarabag	Obdjiak	66.754403729	37.765652714	976
ZA_So12	Zarabag	no name	66.755314000	37.767202000	978
ZA_So13	Zarabag	no name	66.736123000	37.774092000	1014
ZA_So14	Zarabag	Chukora/Sukhrab Buloq	66.753915567	37.763857311	961
ZA_Ko1	Zarabag	×	66.736490931	37.774406858	995
ZA_Ko2	Zarabag	×	66.736392276	37.774500148	1010
ZA_Ko3	Zarabag	×	66.736227404	37.774618082	1017
ZA_Ko4	Zarabag	×	66.736061024	37.774737272	1021
ZA_Ko5	Zarabag	×	66.73589766	37.774774237	1021
ZA_Ko6	Zarabag	×	66.735963123	37.774811117	1030
ZA_Ko7	Zarabag	×	66.735942168	37.774666026	1028
ZA_Ko8	Zarabag	×	66.735945856	37.774615651	1027
ZA_Ko9	Zarabag	×	66.735955663	37.774559995	1027
ZA_Ko10	Zarabag	×	66.736002518	37.774769124	1029
ZA_Ko11	Zarabag	×	66.735988352	37.774882531	1029
ZA_Ko12	Zarabag	×	66.748168850	37.766711349	990
ZA_Ko13	Zarabag	×	66.748241773	37.766642282	987
ZA_Ko14	Zarabag	Rakhim Buloq	66.747166794	37.766179265	972
ZA_Ko15	Zarabag	Kron Buloq	66.748115122	37.764026038	966
KB_So1	Karabag	Kata Buloq	66.810712000	37.773038000	858
KB_So2	Karabag	Ashrav Buloq	66.807907000	37.772217000	857
KB_So3	Karabag	Tosh Buloq	66.796208000	37.785675000	893
KB_So4	Karabag	Chikes Buloq	66.796444000	37.785597000	896
KB_So5	Karabag	Dzhida Buloq	66.811786000	37.771104000	836
KB_So6	Karabag	Bakhodin Buloq	66.811296000	37.771893000	849
KB_So7	Karabag	no name (Orom Bulok)	66.809599000	37.772383000	845
KT_So1	Kampyrtepa	Bosh Buloq	66.669875000	37.785991000	1234
KT_So2	Kampyrtepa	Okhun Buloq	66.688800000	37.779112000	1179

**Tab. 3: The water sources detected in the oases of Zarabag, Karabag and Kampyrtepa.**

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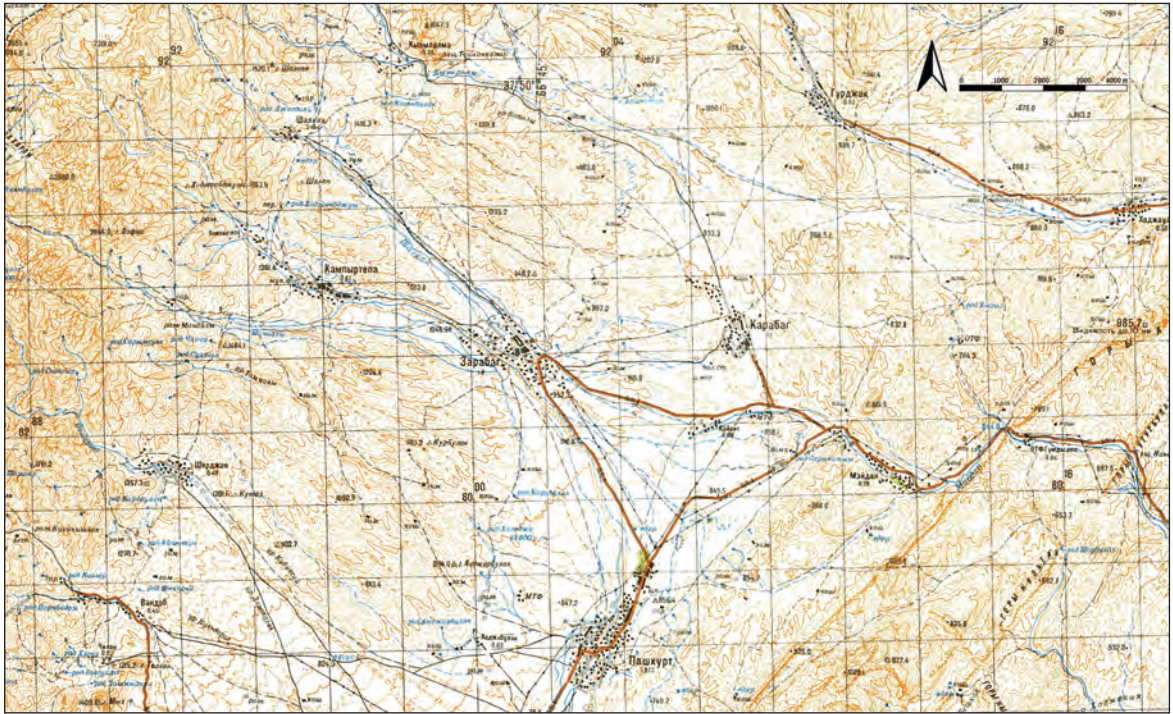
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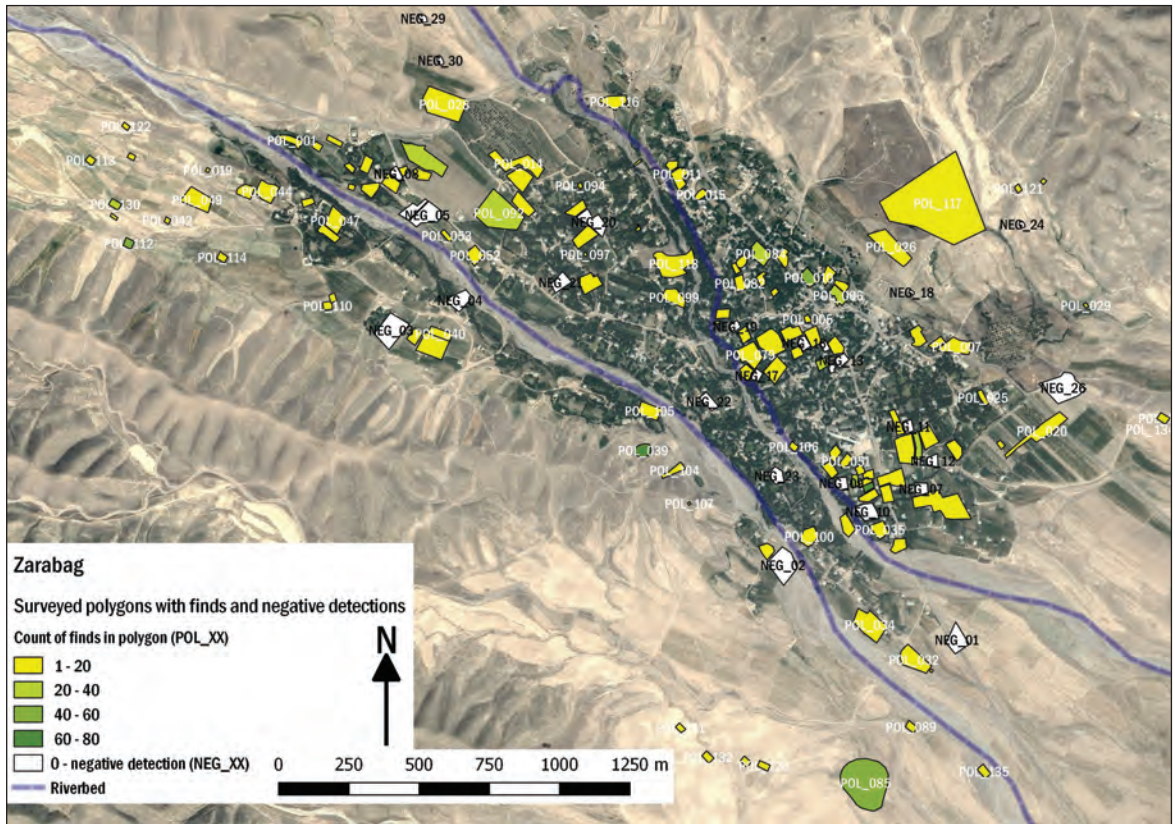
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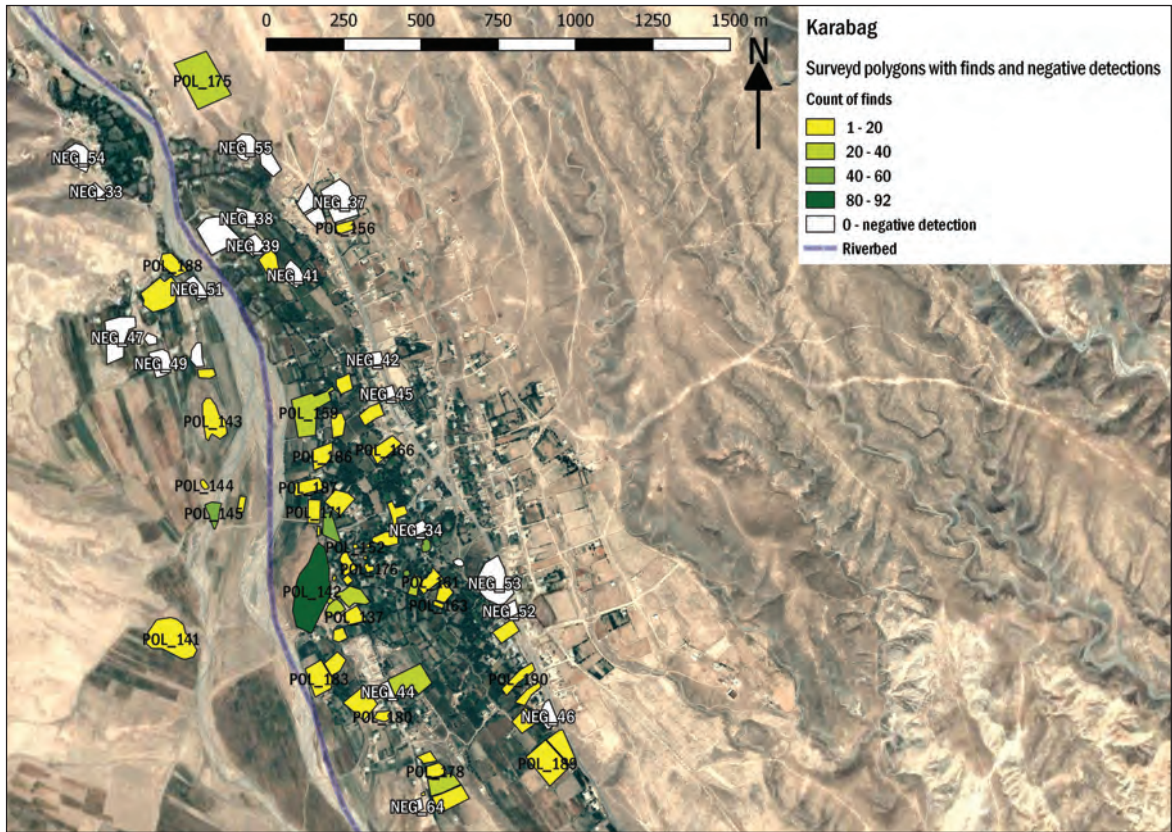
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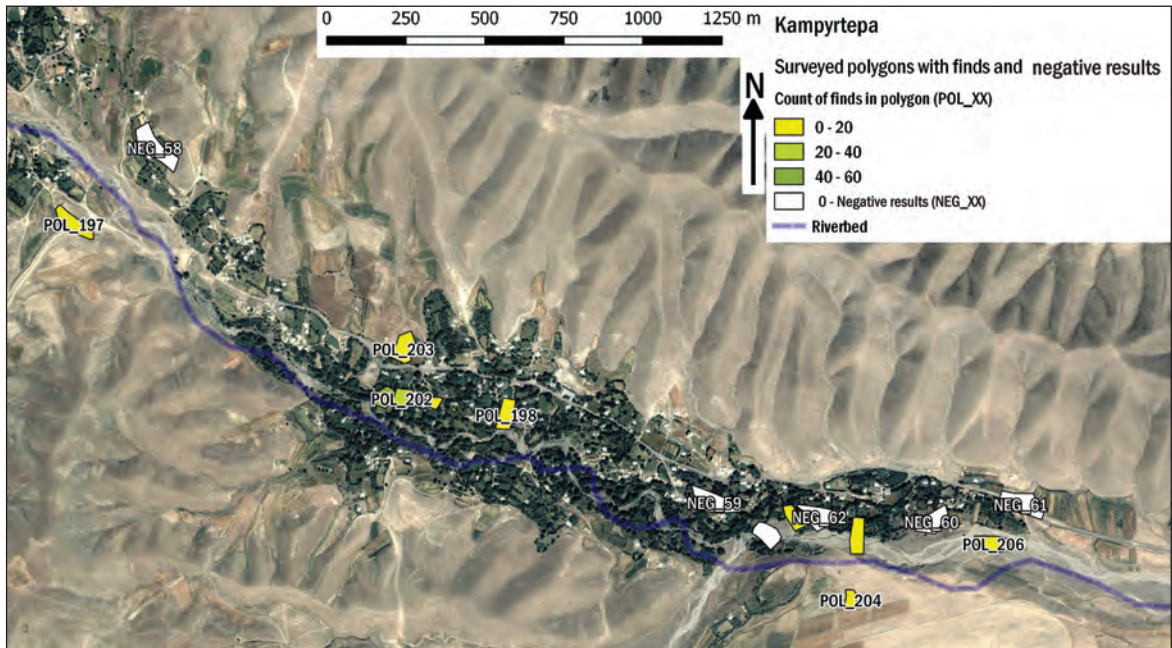
Pl. 4/1: Researched area on the Soviet military topographic map created in 1983 (1: 100 000).



Pl. 4/2: Overview of the surveyed polygons with the number of finds (POL\_XX) and with negative results (NEG\_XX) in the Zarabag Oasis (map by A. Augustinová).



Pl. 4/3: Overview of the surveyed polygons with the number of finds (POL\_XX) and with negative results (NEG\_XX) in the Karabag Oasis (map by A. Augustinová).



Pl. 4/4: Overview of the surveyed polygons with the number of finds (POL\_XX) and with negative results (NEG\_XX) in the Kampyrtepa Oasis (map by A. Augustinová).



Pl. 4/5: Khush-Vaktepa (KuPi\_051) in the Karabag Oasis. The profile with the cultural layers in the disrupted surface of the site Khush-Vaktepa (photo by A. Augustinová).



Pl. 4/6: The storage vessel probably from the site Eishntepa (KuPi\_056) in the Kampyrtepa Oasis which is still in use (photo by A. Augustinová).





Pl. 4/7: Bobolangar (KuPi\_008), the Zarabag Oasis - the Bronze Age *dastarkhan* (photo by A. Augustinová).



Pl. 4/8: The granite mortar found in the Shalkan Say in the Zarabag Oasis - Yaz Culture (photo by A. Augustinová).