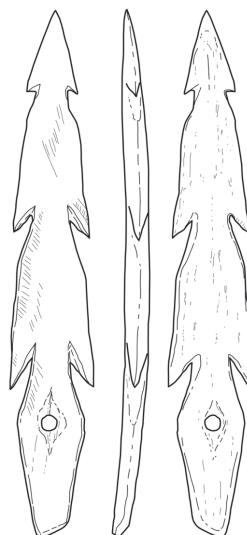


Illustrated Catalogue of Archaeological Materials from Kamchatka in T. M. Dikova Collection

**Preserved in the North-Eastern Interdisciplinary Scientific
Research Institute, Far Eastern Branch, Russian Academy of
Sciences (NEISRI FEB RAS), Magadan, Russia**



Katsunori Takase and Aleksander I. Lebedintsev

**Laboratory of Archaeology, Graduate School of Letters, Hokkaido University, Japan
The North-Eastern Interdisciplinary Scientific Research Institute, FEB RAS, Russia**

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2019

Preface

This illustrated catalogue purposes to provide the whole image of artifacts in T. M. Dikova collection preserved in the North-Eastern Interdisciplinary Scientific Research Institute, Far Eastern Branch, Russian Academy of Sciences (NEISRI FEB RAS), Magadan, Russia. In Kamchatka, several collections of archaeological materials excavated by W. Jochelson, S. Bergman, N. N. Dikov, T. M. Dikova, A.K. Ponomarenko, and A.V. Ptashinski have been known so far. They were collected in various periods during the 20th century and the 21st century focusing on different cultures and regions. Therefore, each collection has the significant meaning for archaeological research in Kamchatka.

T. M. Dikova collection, the largest collection of archaeological materials from Southern Kamchatka, was formed through archaeological excavations intensively conducted in the 1970s (Fig.1). It is characterized by a huge number of artifacts restored by large-scale investigations at representative sites in Southern Kamchatka. Although she passed away in 1981, results of these excavations were published mainly by the efforts of N. N. Dikov in 1983. This is a principal information source on the collection; detailed descriptions on sites, archaeological features, and certain kinds of artifacts are included in the monograph. However, information on pottery, regular stone tools, and the variety of bone tools are not necessarily elaborated in the book. This catalogue aims to provide basic information on this collection such as the total number of artifacts, tool composition, and raw material composition of lithics and bone tools mainly focusing on artifacts regarding the Nalychevo Culture so that archaeologists can easily study them. We hope that this catalogue provides an opportunity for archaeologists to study this collection and contribute to the development of archaeology in Kamchatka and the North Pacific.

We are grateful for Masaki Eda, Michael Etnier, and Andrei Ptashinski. The preparation works for this catalogue might be never completed without their academic support and technical advices. Research on clay vessels and bone tools in the collection were supported by JPSP KAKENHI Grant-in-Aid for Scientific Research (A) (PI: Katsunori Takase, Grant number: 15H01899). Study on stone tools in this book was supported by JPSP KAKENHI Fostering Joint International Research (PI: Katsunori Takase, Grant number: 15KK0031).

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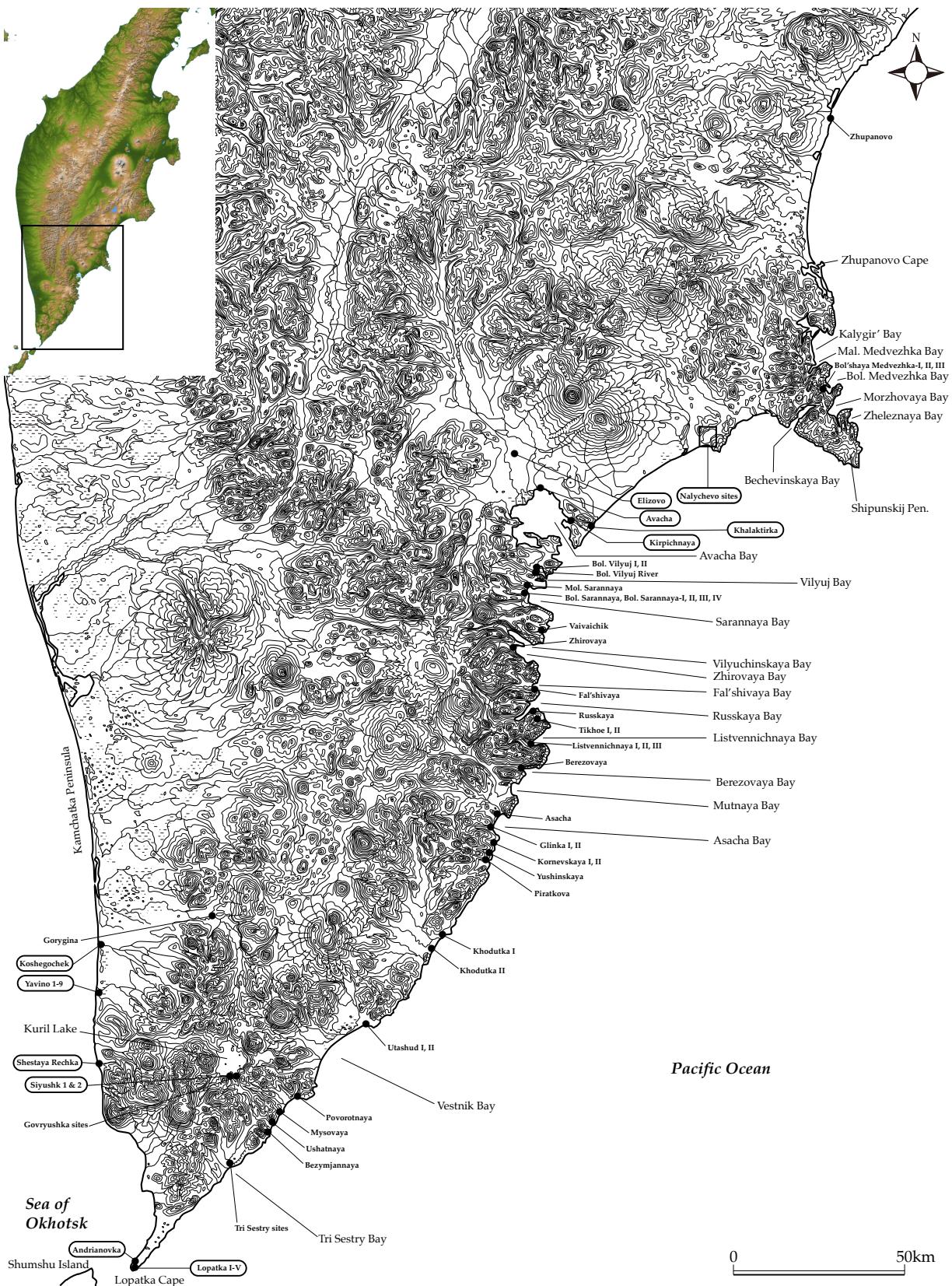


Figure 1: Map showing the location of archaeological sites regarding in this book

Chapter 1. Life and scientific activities of T. M. Dikova (1933-1981)

Tamara Mitrofanovna Dikova (nee Ivanova) was born on June 12, 1933 in a village of Usyatsky District, Kalinin Region (Tverskaya Region), in a family of Ivanov Mitrofan Ivanovich, a forester of the Pargolovsky forest industry enterprise (the personal file at NEISRI). In 1945, her father left the family, leaving two daughters in arms of his wife, Marfa Vasilievna. T. M. Dikova spent her childhood and youth period in Leningrad Region. In 1943, she entered primary school, and then transferred to a seven-year school which she graduated in 1949. Because of the difficult financial situation, T. M. Dikova found a job as a weaver at a weaving factory of the Krasny Mayak combine in Leningrad. In 1950, she entered the Leningrad City Preschool Pedagogical College, which she graduated in 1953 and got a qualification for kindergarten teacher. After

that, she worked for a short time in a kindergarten, and in April 1954, she left for North Kazakhstan Region where she first worked as a plow operator in a tractor brigade of a grain sovkhoz "Ukrainian" (Presnovsky District) and a teacher of biology and physical education in a seven-year school in Novorybinsk.

Then, T. M. Dikova returned to Leningrad in September 1955 and worked as a kindergarten teacher again.

In 1958, T. M. Dikova became a part-time student of the Faculty of History at the Leningrad State University n. a. A. A. Zhdanov, and she worked on the basis of individual plan in the Department of Archaeology and began to depart for archaeological expeditions. In the field season of 1959, she went to the Baikal expedition where she took part in the



Figure 2: T. M. Dikova in Ozernaya Village, 1979

excavations at the Ulan-Khada site. In 1960 and 1961, she worked for the Krasnoyarsk expedition and participated in the excavations at cemetery sites of the Karasuk Culture and Afanas'evo Culture.

From 1959 to 1962, T. M. Dikova worked in the Leningrad Branch of the Institute of Archeology, the USSR Academy of Sciences, as a freelance senior laboratory assistant.

As for the characteristic of T. M. Dikova, Professor M. P. Gryaznov, doctor of Historical Sciences, reported that "in the conditions of archaeological fieldwork, she showed herself as a diligent, hardworking, and dedicated employee, attentively and responsibly performing the instructions provided to her. From the very first year of her work in the expedition, she was entrusted with the maintenance of all types of primary processing for archeological material obtained from the excavations such as accounting, cataloguing, cleaning, coding, and packaging. She successfully coped with these kinds of works, often acting as a leader of these works..."

She worked as a lab assistant of laboratory work for expedition collections for three winter periods. And she performed the role of a senior lab assistant. She handled considerable part of the most difficult and demanding works. She was well mastered various types of restoration for archaeological materials. In particular, she learned to restore ceramics very skillfully.

Considering all of the above, I willingly recommend T. M. Dikova as a diligent, leading and responsible worker in her work, and as a skilled and experienced laboratory archaeologist. However, in the expedition, she took part in her own excavations. She was entrusted with conducting excavations of individual archaeological features: independent excavations of a settlement, a mound, and a grave. She well learned the method of excavating graves with complex stone structures" (personal file of T. M. Dikova).

In 1962, T. M. Dikova became an employee of the Laboratory of Archeology, History and Ethnography

at NEISRI - first as a laboratory assistant, then as a senior laboratory assistant. She participates in four archaeological expeditions.

Her first published scientific paper was an article devoted to the study of the Kanchalan settlement site (Dikova, 1964), which was translated into English and published in Arctic Anthropology (Dikova, 1965). She analyzed materials collected as a result of the excavations by V. V. Naryshkin in 1953 and 1954. This settlement consisted of twelve depressions of circular-shaped pit houses. In the excavated dwellings, a hearth was identified on slightly deeper level of the ground, and stone scrapers, a pick-hoe made on a walrus tusk, a bone pestle, fragments of ceramic vessels with external ears were found. The author notes that the materials of this site have a lot in common with the Coastal Eskimo Culture and a culture of deer hunters who occupied along the Anadyr River. This publication significantly complemented the characteristics of the Kanchalan Culture.

T. M. Dikova published an article with geologist V. V. Kraskov about a sea hunter settlement of two thousand years ago and later which was discovered in the Southeastern Aachim Peninsula on the coast of Central Chukotka (Kraskov, Dikova, 1966). The publication describes the location of the settlement, finds from the cultural layer and surface collections consisted mainly of lithic materials as well as ceramic fragments. Charred structures of the dwelling with a frame made of driftwood are discovered. It is concluded that this settlement is assigned to one of the early stages of the Old Eskimo Culture.

The first publications by T. M. Dikova already proofed her ability as an experienced and qualified researcher.

In 1968, she graduated from the Department of History, Leningrad State University in absentia with the assignment of the qualification of an archeologist and a historian.

Her research themes are "Archeology of Southern Kamchatka in connection with an issue of Ainu occupation" and "Ancient cultures of Southern

Kamchatka and their role in the history of the Far East." T. M. Dikova worked in the most inaccessible areas in Southern Kamchatka such as Cape Lopatka, Nalychevo, Yavino, Kuril Lake, and on Shumshu Island for many years (1972, 1973, 1975, 1977, 1979). She was the head of the Southern Kamchatka Archeological Group of NEISRI, part of the Northeast Asian Complex Archaeological Expedition led by N. N. Dikov. In Southern Kamchatka, she found several dozens of archaeological sites. She studies the Old Intel'men Culture and reveals its southern borders, connections with adjacent cultures, and their role in the history of the Far East.

Surveys of sites in Avacha Bay region (Avacha, Khalaktyrka) and the Gulf of Avacha (Nalychevo) on the east coast of Southern Kamchatka were conducted.

At the mouth of the Avacha River, T. M. Dikova investigated a site of the Tar'ya Culture (Dikova, 1979a). Studies of this multi-layered site made this historical monument a basic and a reference archaeological site. When clearing the floor of a dwelling, the oldest woven textile made using plant fibers in the Far East which was dated to 5000 BP and older was found in the lower cultural layer of the Avacha site (Dikova, 1979c). Above the remnants of a destroyed "shell midden" with animal and bird bones on a steep hill, a spearhead and a harpoon head made of bone were found (Dikova, 1976b).

On the southern slope of Cape Nalychevo and the northeastern shore of Lake Nalychevo, T. M. Dikova discovered settlements with a huge number of pit house in 1972. In 1975, T. M. Dikova conducted explorations at the mouth of the Nalychevo River; inspection of the coast from the mouth of the river to 6 km upstream as well as the banks of the Ozernaya River (left tributary of the Nalychevo River) and reconnaissance works were performed at Cape Nalychevo (Dikova, 1973).

On the northeast shore of Lake Nalychevo, T. M. Dikova excavated a dwelling in 1972 and part of another dwelling in 1975. The dwelling at Cape Nalychevo was slightly deeper. Fragments of a

cylindrical flat-bottomed vessel were found near a hearth of this dwelling; a double boss was made on the inner edge, and the exterior surface was smoothed. Traces of charred frame made using thin poles are detected (Dikova, 1976b). Studies on dwellings on Lake Nalychevo showed that this settlement site was formed at different periods (Dikova, 1993).

T. M. Dikova conducted archaeological research on Cape Lopatka for three field seasons. In 1972, exploring survey was carried out and a great prospect for studying this area was obtained, and excavations were conducted in 1973 and 1975. Four locations were found where abundant materials could be collected - Paleolithic pebble tools in the earlier period to the 17th century in the later period (Dikov, Dikova, 1973; Dikova, 1979c).

In the Lopatka IV site, redeposition of artifacts from different cultural layers could be seen, meaning that it is difficult to estimate date of the pebble tool complex. At the same time, other artifacts such as leaf-shaped points, backed knives, tongued scrapers, and adzes with pointed-base are assigned to the tool complex of the Tar'ya Culture.

The Lopatka III site is a destroyed "shell midden" consisting of the sea mammal bones and mollusks. There are also mixed and redeposited materials. Stone tools from this area are similar to artifacts from the Lopatka IV site, and they are obviously Tar'ya Culture materials.

The Lopatka II site contained mainly moved materials, represented by a large collection of various stone tools and some bone products (Dikova, 1983). Mollusk shells and fragmented bird and animal bones scattered evenly in the whole area of this site. In general, all the material of this location is characterized as homogeneous. Previously, it was dated to a period around the beginning of the Christian era (Dikova, 1976b).

At the Lopatka I site, investigations were carried out for several years (Dikova, 1973, 1974b). The cultural layer was redeposited. A "shell midden" containing a large number of mollusk fragments and

bone pieces of sea mammal, terrestrial animal, birds, and fish. This "shell midden" in which fragments of Naiji pottery vessels were found was assigned to the upper layer by T. M. Dikova. Stone and bone products were collected from this feature. And older dwellings with stone implements were found in the lower part. Two dwellings were recognized, one of which is dated to the beginning of the first millennium AD. T. M. Dikova submitted an important conclusion that this site on Cape Lopatka was settled for seasonal hunting in the middle of the XVII century and that there was a contact of two cultures – the Itelmen and the Ainu (Dikova, 1976b).

The Lopatka V site, another site studies by T. M. Dikova, is located on the Pacific coast of Cape Lopatka. A bone harpoon head with two spurs was restored as well as several stone tools and flakes on blown sand dunes. According to T. M. Dikova, these

findings are simultaneous to materials from the Lopatka I site.

In 1973 and 1975, T. M. Dikova carried out excavations at the Andrianovka settlement site (Dikova, 1993). And she surveyed settlements in the Lake Gniloe and the Ryabukhina stream.

T. M. Dikova passed the route of V. I. Jochelson's survey in Southern Kamchatka from 1910 to 1911. Exploration work was carried out in the vicinity of Cape Siyushk. On Cape Siyushk of Kuril Lake, she excavated two dwellings where stone products and clay vessels Naiji were found.

In 1977, an investigation was carried out on the southwestern coast of Southern Kamchatka (Dikova, 1978). Three archaeological sites were found by a general survey on the right bank of the Amchagachi River near Ust'-Bol'sheretsk. On the coast of the Sea of Okhotsk, remains of a destroyed settlement



Figure 3: View of the Avacha site. The excavation was being conducted on the left slope of the hill

were examined on the left bank of the mouth of the Koshegochek River. Four more different sites were situated on the left bank of the Pravaya Yavino River.

In Kamchatka, T. M. Dikova collected a charcoal sample collection for radiocarbon dating, and dates were measured by the NEISRI laboratory (Shilo, Dikova, Lozhkin, 1977). New data complement and clarify the age of archaeological sites of Southern Kamchatka.

Preliminary results of archaeological work in Southern Kamchatka were published in various collections of papers (Dikova, 1974b, 1976c, 1979a, 1979c).

The studies of T. M. Dikova were summarized in a large monograph on ancient cultures in Southern Kamchatka published after her death (Dikova, 1983). In the preface to her book, N. N. Dikov praised her contribution to study of the past in Kamchatka, and he noted that these archaeological sources were in a lot of ways unexpected, interesting and very informative shedding new and quite definite light on the complex problem of the ethnicity of ancient

inhabitants of "the Kurile land" (*ibid.* p. 6).

Furthermore, T. M. Dikova participates in the archaeological expedition of N. N. Dikov. In 1962, they went rafting the Kamchatka River and Penzhina River together. In 1965, she took part in the excavations of the Old Eskimo Chini cemetery. During the three field seasons in 1971, 1973 and 1974, T. M. Dikova excavates the Siberdik site in the flooded area of the Kolyma Hydroelectric Power Station as the deputy head of the expedition. Periodically, she departed on the excavations of the Ushki Paleolithic sites in Kamchatka (1962, 1964, 1971, 1976, 1980) (Dikov, Dikova, 1972, 1973, 1974).

In 1971, T. M. Dikova became a junior researcher, and then she became a competitor of scientific degree from 1974.

In 1972, T. M. Dikova gave a talk on "The archaeological study of Southern Kamchatka in connection with the issue of Ainu inhabitation" in the 3rd Far Eastern Conference on the History of the Northern USSR held in Magadan (Dikova, 1976a).

In 1973, a joint work with V. A. Vorobiev "A



Figure 4: Members of the expedition on a *vezdekhod* (all-terrain vehicle), the Sea of Okhotsk coast in Southern Kamchatka, the mouth of the Golygina and the Opala Rivers

New Monument of the Birnirk Culture in Northern Chukotka" was published in "Kraevedcheskie Zapiski" of Chukotka Regional Museum (Dikova, Vorobyev, 1973). It describes finds contained in materials of geologist V. A. Vorobyov from the site 2 in the northeastern part of the Aachim Peninsula discovered in 1971. In the scree of a large hill, which is a remnant of the ancient Eskimo dwelling, stone and bone tools were discovered as well as harpoon heads made of deer antler, fragments of ceramic vessels with textile prints on the surface; there is a pottery fragment with a stamped ornament in the form of a triple row of semicircles. The settlement was assigned to the Birnirk Culture and dated to the 5th century CE to the 8th century CE. This Late Eskimo Culture has been poorly studied; thus, any new materials have a significant value.

In 1974, a brochure entitled "Archaeological Monuments of the Magadan Region" (Dikova, 1974a) was published from the Magadan Book Press.

In 1977, T. M. Dikova was awarded the academic title of junior research assistant of "Archaeology."

In 1979, T. M. Dikova took part in the XIV International Pacific Congress, giving a talk on the "Relationship between the South Kamchatka and the American Paleolithic" (Dikova, 1979b). She did a great job for preparing the archaeological exhibition regarding this congress.

One of her last works, written during her lifetime, is devoted to labrets — original decorations characteristic of Tar'ya Culture (Dikova, 1980). She considered methods and places of wearing these decorations and classified into four groups in form.

T. M. Dikova has written more than 20 scientific works, known not only in our country but also abroad.

T. M. Dikova directed a great public project. She led the archaeological section of the Council of the Magadan Region Branch of the All-Russian Society for the Protection of Historical and Cultural Monuments. She prepared for publication of a catalog on archaeological sites in Magadan Region (Dikova, 1974a). She was awarded four honorary

certificates and the memorial badge of the society for her active works in this society, for her lectures, and popularization of archaeological knowledge.

T. M. Dikova was repeatedly elected to the local committee of labor unions, a member of the society "Knowledge," the chairperson of the institute section of the All-Russian Society for the Protection of Historical and Cultural Monuments, and she studied at the evening university of Marxism-Leninism. In 1969, she developed two exhibitions "The Emergence of Man and the Development of Human Society" and "The Archaeological Cultures of the Northeast" in Chukotka Regional Museum (personal file at NEISRI).

Since 1965, T. M. Dikova taught a course in archaeology at the Magadan State Pedagogical Institute and led archeological practice for students and conducted practical classes in an archeological circle of the House of Pioneers. She was one of the authors of a collective textbook for school students of 7th-8th grades in the Magadan Oblast', which was published in two editions; she wrote the first chapter "Primitive communal system on the territory of our region" (History of Magadan Region from Ancient Period to the End of the XIX Century, 1976, 1984).

T. M. Dikova received thanks from the directorate of NEISRI for success in her work and social activities of the team. In 1981, she was recommended for the honorary title "Honored Veteran of the Far Eastern Scientific Center."

T. M. Dikova passed away in Leningrad on November 27 in 1981.

(A. I. Lebedinstev)

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Chapter 2. Overview of archaeological materials in T. M. Dikova collection

Archaeological materials in Dikova collection are currently housed in a storage room at NEISRI with other archaeological materials from Kamchatka, Chukotka, and Magadan excavated mainly by N. N. Dikov, A. I. Lebedintsev, and S. B. Slobodin. Materials from Kamchatka are consisted of T. M. Dikova and N. N. Dikov collections, and there are contained in approximately 400 boxes. Among them, materials of Dikova collection accounts for approximately 170 boxes. The rest of Kamchatkan collection is Dikov collection, and it is mainly consisted of artifacts from the Ushki sites, Central Kamchatka (Dikov 1977, 1979)¹⁾.

Artifacts except for large materials in Dikova collection are generally preserved in wooden boxes; the standard size of the container is 48 cm × 39 cm × 7.5 cm (Fig.5). Potsherds, stone tools, bone tools, wooden tools, metal tools, glass materials, animal bones, and charcoal are included in the collection. In many cases, the provenance of materials can be specified through the markings and labels attached to each ar-

tifact (Fig.5)²⁾. Since we did not remove these labels for making technical drawings, they are visible in some drawings of pottery (Fig.16.4) and stone tools (Fig.21.9). As for artifacts without markings or labels, excavated site was inferred on the basis of reliable provenance information of other artifacts preserved in the same sub-box or box.

A large amount of charcoal samples were collected from representative sites (Fig.6), and they are preserved in bottles covered by a sheet of paper with provenance information just like samples in Dikov collection (Goebel *et al.* 2010).

As for animal bones, we have already studied with zooarchaeologists and are planning to publish an article on them. Thus, information on faunal remains is not dealt with in this volume, while results of species and element identification for bone tools using the naked eye observation conducted by Dr. Masaki Eda (Hokkaido University, Japan) and Dr. Michael Etnier (Western Washington University, USA) are included in Chapter 5.



Figure 5: Stone tools preserved in a wooden box

Dikova collection contains archaeological materials from archaeological sites in Cape Lopatka (Lopatka I-V and Andrianovka sites), Southwestern Kamchatka (Yavino 1-4, 7, 8 and 9, Shestaya Rechka, Koshegochek), Kuril Lake (Siyushk 1 and 2), and the suburb of Petropavlovsk-Kamchatskij (Avacha and Khalaktirka) (Fig.1). Information on these sites are described in her monograph (Dikova 1983). Although she also conducted a relatively large investigations around Lake Nalychevo, 60 km northeast from Petropavlovsk, materials from this area are not contained in the collection at present. As mentioned in Chapter 7, when Katsunori Takase preliminary checked this collection in 2011, there was at least one box of materials from the Nalychevo sites. However, materials from this site cluster are not currently available due to missing. It may be discovered in the storage room and be added to the collection again in the future. Also, this catalogue does not deal with materials from the Avacha site, but four sinkers, two harpoon heads, and some stone figurines and ornaments from the site were solely involved (Chapters 4-6). In addition, several artifacts in Dikova collection are exhibited in the museum of archaeology and ethnology at NEISRI. The detailed information on

them is not included in this volume, although we briefly introduce them in Chapter 6. Artifacts from the Kirpichnaya site, the Zhupanova site, Elizovo, and Petropavlovsk were likely to be collected by N. N. Dikov (1977, 1979), but they are included in this volume because there is a close relationship between them and artifacts in Dikova collection.

The numbers of box for potsherds, stone tools, and faunal remains involving bone tools are approximately 20, 130, and 50, respectively. Wooden tools, glass beads, and metal tools are preserved with stone tools. All kinds of materials often share boxes; this is because the total number of boxes for this collection is about 170. Inventories of boxes for pottery, lithics, and bone tools are available in the appendix of this catalogue.

More than 1,600 ceramic fragments can be seen in this collection (Chapter 3). Southern Kamchatka is a region where prehistoric people did not have a tradition of pottery production throughout the Holocene, but the Nalychevo Culture dated from the 15th to the 19th centuries is the first and the last archaeological culture with the stable existence of clay vessels. This pottery, known as Naiji pottery, is an imitation of iron pan produced in Medieval Japan.

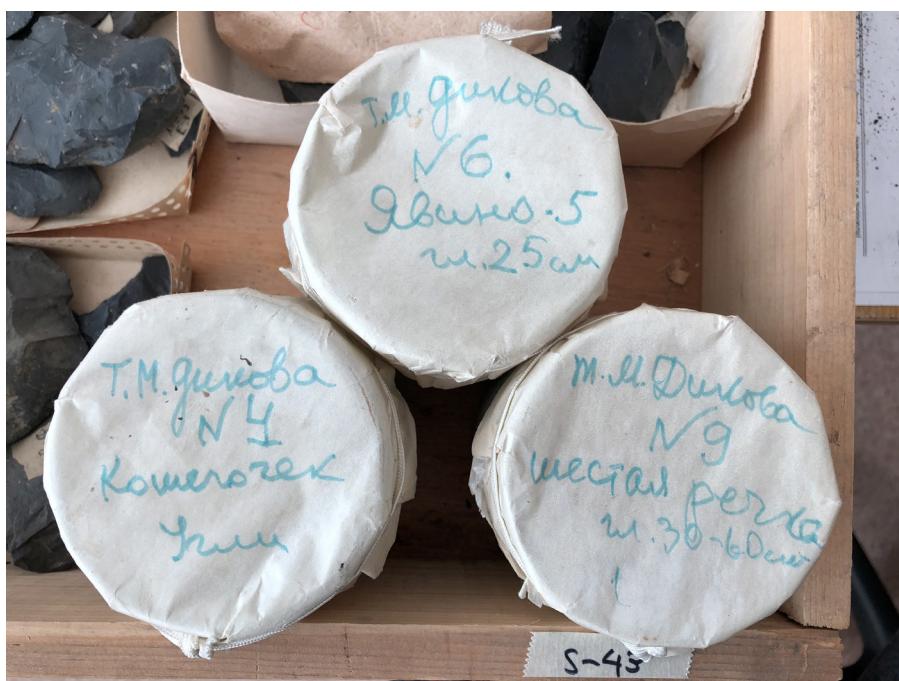


Figure 6: Glass bottles containing charcoal samples

Naiji pottery is characterized by lugs for hanging on the inner rim surface. All potsherds in Dikova collection are recognized as fragments of Naiji pottery, and this is the largest collection of ceramic vessels of the Nalychevo Culture not only in Kamchatka, but in the Kuril Islands. As elaborated in Chapters 3 and 6, this high-quality ceramic collection has greatly contributed to understanding the chronology of Naiji pottery and revealing the occupation history of the Kuril Ainu in Kamchatka.

The number of stone tools is more than 17,000 (Chapter 4). Lithic industries are characterized by a huge number of flakes, retouched flakes, and utilized flakes (more than 14,000) as well as a lot of cores (more than 1,900), suggesting that stone tools were actively produced in Southern Kamchatka. Certainly, there are also various tools in the collection: points, arrowheads, stemmed scrapers, end scrapers, side scrapers, drills, stone adzes, grinding stones, hummers, handstones, anvil stones, wedging pieces, stone lumps, weights, and others. These materials are also helpful to recognize tool composition and the restoring prehistoric activities through the lithic use-wear analysis. Local materials such as andesite, chert, and chalcedony are used for making stone tools, while considerable number of obsidian tools and flakes can be also seen.

The collection contains more than 150 bone tools (Chapter 5). Pointed weapons, bone arrowheads, harpoon heads, foreshafts, spearheads, bone adzes, an adze socket, bone sticks, a bow nock, wedging pieces, combs, needles, needle cases, a knife handle, toggles, and ornaments can be seen in the collection. This is also the largest collection of bone tools from Kamchatka, and it is significant to recognize typological variation in these tools.

Unfortunately, markings and labels on each materials indicate solely site name and excavated year in most cases. Therefore, it is difficult for us to conduct a close examination of archaeological features, levels, and places in each site. Nevertheless, there is no doubt that this collection contains the most fruitful materials and is still important for archaeological

examinations in Kamchatka and the Northern Kurils. We clarify the whole picture of the collection focusing on pottery, stone tools, and bone tools mainly related to the Nalychevo Culture from the next chapter.

(K. Takase)

Notes

- 1) Charcoal samples from the Ushki sites in Dikov collection have been re-examined (Goebel *et al.* 2010). New excavations at this site cluster have also provided the detailed data for the age determination of the lithic industries (e.g., Goebel *et al.* 2003).
- 2) For markings and labels, "MB" meaning "*Mesto Vysadki*" is used for artifacts from the Andrianovka site (Dikova 1983, p.192).

Chapter 3. Pottery

Ceramics are preserved in approximately 20 wooden boxes. Almost all of the materials are fragments, while two restored clay pans are exhibited in the museum at NEISRI, and a single individual of clay pan is exhibited in the Kamchatka State Unified Museum in Petropavlovsk-Kamchatskij (Chapter 6). As far as we observed available materials, all potsherds belong to Naiji pottery, an imitation of Japanese iron pan with inner lugs for hanging on the inner rim surface. In Figures 7-16, we carried drawings of all rim fragments with typologically diagnostic features from each site; this is the reason why there is no bottom and body fragment in figures. Although only 5.6 % of potsherds among 1,684 pieces are shown in the figures (Tab.1), illustrated ceramics efficiently show the variation of typological features in this collection.

Naiji pottery is basically consisted solely of cooking pans, meaning that vessel composition is extremely simple. The variation in size of pan is not so wide, although Naiji pottery of Kamchatka and the Northern Kuril Islands has a tendency to be larger than that of Hokkaido and Sakhalin. In the previous literatures (Takase and Lebedintsev 2015, Takase 2017), we introduced a shallow clay vessel with a large inner lug horizontally attached to the inner rim surface. This clay vessel was broken, but its plan view was thought to be rectangular. Such a ceramic

have not been recognized in the Circum-Sea of Okhotsk region. Although there was no marking and label on this material, it was preserved in the same box of artifacts from Lopatka sites. On the basis of these information, we pointed out the possibility that it could be a new category of Naiji pottery in Southern Kamchatka as described shallow clay dishes as Torii (1903, 1919) documented on the basis of an interview of the Kuril Ainu. Furthermore, we noted that the relationship between Kamchatka and Sakhalin should be taken into consideration because horizontal inner lugs are common in Central Sakhalin (Takase 2013b). However, there is also the possibility that it is a large clay lamp contaminated from Chukotkan materials in Dikov collection. Therefore, a drawing of this material is removed from this book.

The largest number of ceramic pieces were found at the Andrianovka site (Tab.1). A lot of potsherds were restored from the Lopatka I, Yavino 3, and Yavino 4 sites as well. Typological features of Naiji pottery in the collection are basically common with those from the Northern Kuril Islands. In many cases, the exterior surface of the pans is covered by thick food crust, while the interior surface and the bottom surface are clean.

Because of the large collection of clay vessels, materials in this collection widely covers main types of Naiji pottery. Naiji pottery is classified into four

Table 1: Count of ceramic fragments in Dikova collection

Site	Count of ceramic fragments	Count of illustrated ceramic fragments	%
Lopatka I	176	11	6.3
Andrianovka (<i>Mesto Vysadki</i>)	1,256	50	4.0
Siyushk 1 (& 2)	26	5	19.2
Yavino 2	1	1	100.0
Yavino 3	70	5	7.1
Yavino 4	91	18	19.8
Yavino 7	11	1	9.1
Kirpichnaja	52	3	5.8
Unknown	1	1	100.0
Total	1,684	95	5.6

types in Southern Kamchatka and the Northern Kurils (Takase 2013a). Type Ia pottery dated to the oldest phase maintains morphological features of Japanese iron pans: the thin wall, a wide and shallow groove in the inner rim, smaller inner lugs, no projections and ornaments. On the contrary, type II pottery assigned to the younger phase is characterized by the thick wall, disappearance of a wide and shallow groove, large inner lugs, projections on the rim, and ornaments on the exterior surface, indicating the degradation of technique for pottery-making. Type III, the youngest phase, has a similar shape to Russian iron pan. However, only one individual has been discovered in the Northern Kuril Islands for this type, and there is still no instance of type III pottery from Kamchatka. Type Ib is an intermediate type between type Ia and type II, and it has both characteristics of these types in a single individual of pottery.

Radiocarbon dating demonstrates that type Ia is dated from the mid-15th century to the mid-17th century, while type II is assigned to a period from the mid-17th century to the 19th century. This result suggest that type Ib pottery should be dated to the 17th century because this period is regarded as the transitional phase from type Ia to type II. According to historical and ethnographic documents in Japan and Russia, the Kuril or the Kuril Ainu, users of Naiji pottery, did not produced pottery in the latter half of the 19th century, indicating that they stopped using Naiji pottery in the former half of the 19th century or earlier. Thus, type II pottery was likely to be used until the end of the 18th century or the beginning of the 19th century, and it was replaced by type III pottery or used with type III pottery in the final phase of Naiji pottery.

On the basis of such a framework of typological recognition, we classified pottery fragments in Dikova collection (Figs.17 and 18). There are two notable points. First, potsherds elaborately manufactured from the Lopatka I, Andrianovka, and Kirpichnaya sites indicate that type Ia pottery can be classified into two sub-types (Fig.17:1-5, 9-12). They have very thin walls, the smooth surface, and small inner lugs

with triangular cross section. These characteristics are common with original iron pans. Typologically, they are the older phase of type Ia Naiji pottery classified as “type Ia1,” while other type Ia ceramic fragments are categorized as “type Ia2.”

Second, Type Ia pottery, including types Ia1 and Ia2, distributes in a wide area in Southern Kamchatka. In Dikova and Dikov collections, it can be seen not only in archaeological sites in Cape Lopatka, the lower Ozernaya river basin, and Kuril Lake, but also in the Kirpichnaya site that is located in Petropavlovsk-Kamchatskij. However, type II pottery cannot be seen in potsherds from the Kirpichnaya site (Tab.2). This support a hypothesis on the temporal change in the distribution area of Naiji pottery (Fig.19). Studies so far suggest that the northern border of type II pottery is the Vestinik Bay in Southeastern Kamchatka, while type Ia pottery distributes as far north as the Shipunskij Peninsula on the east coast (Takase 2015). This significant change in pottery distribution is related to the occupation area of the Kuril/the Kuril Ainu, indicating that they evacuated from Kamchatka in the end of the 17th century or the beginning of the 18th century. Pottery in Dikova and Dikov collections supports this understanding.

(K. Takase)

Table 2: Pottery types from each site

Site	Type Ia1	Type Ia2	Type Ib	Type II
Lopatka I	+	(+)	+	+
Andrianovka	(+)	+	+	+
Siyushk 1 (& 2)	(+)	+	+	+
Yavino 2	(+)	(+)	(+)	(+)
Yavino 3		(+)	+	+
Yavino 4	(+)	+	+	+
Yavino 7	(+)	(+)		
Kirpichnaja	+	(+)		
Unknown				+

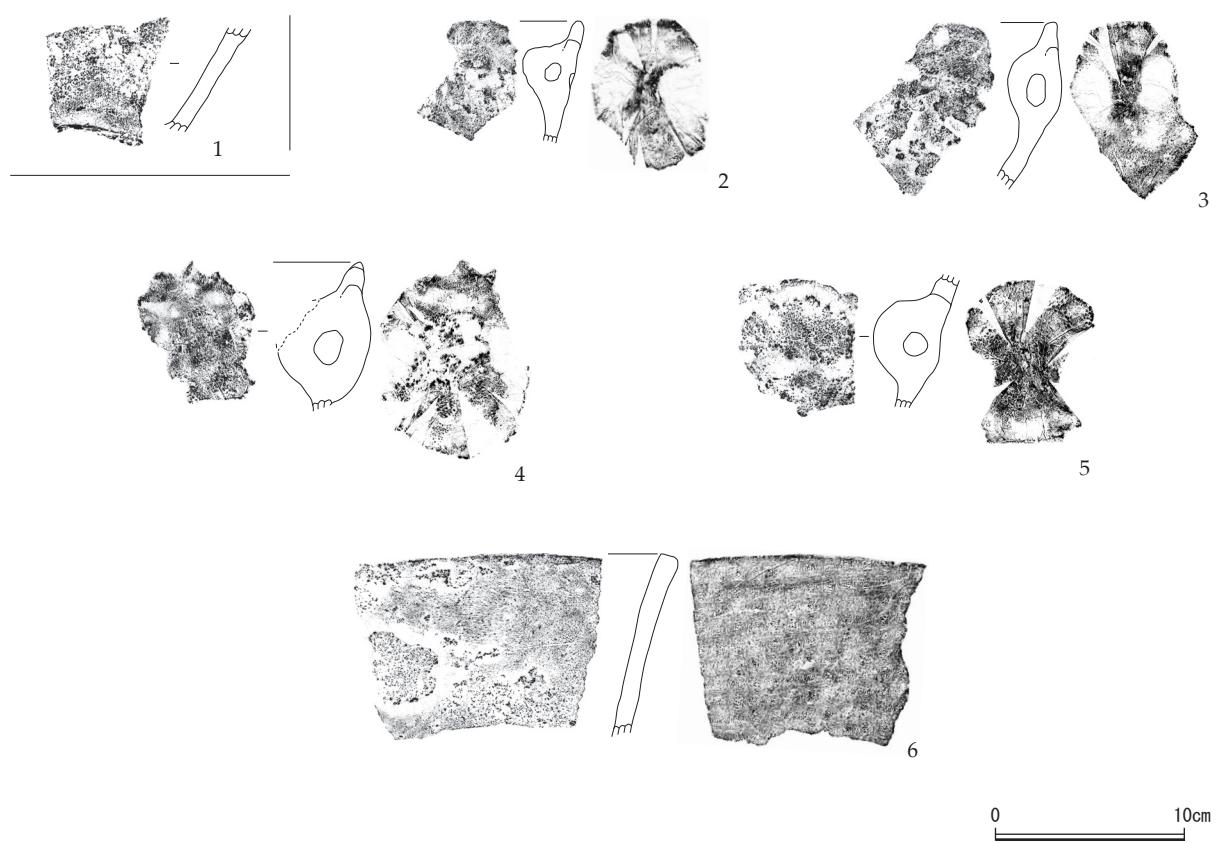


Figure 7: Ceramic fragments (1) [1: Yavino 2; 2-6: Yavino 3]

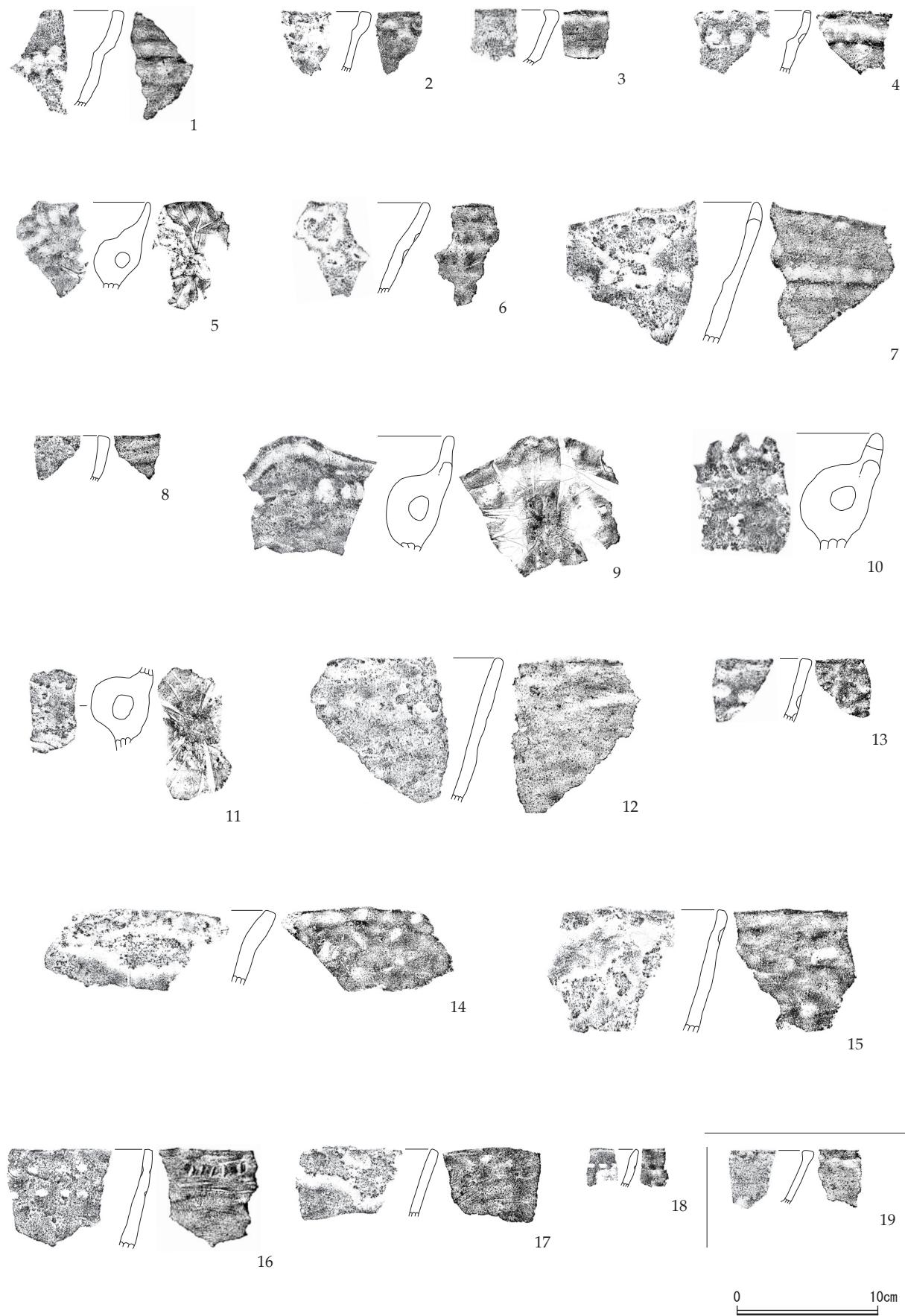


Figure 8: Ceramic fragments (2) [1-18: Yavino 4; 19: Yavino 7]



Figure 9: Ceramic fragments (3) [1-14: Andrianovka]

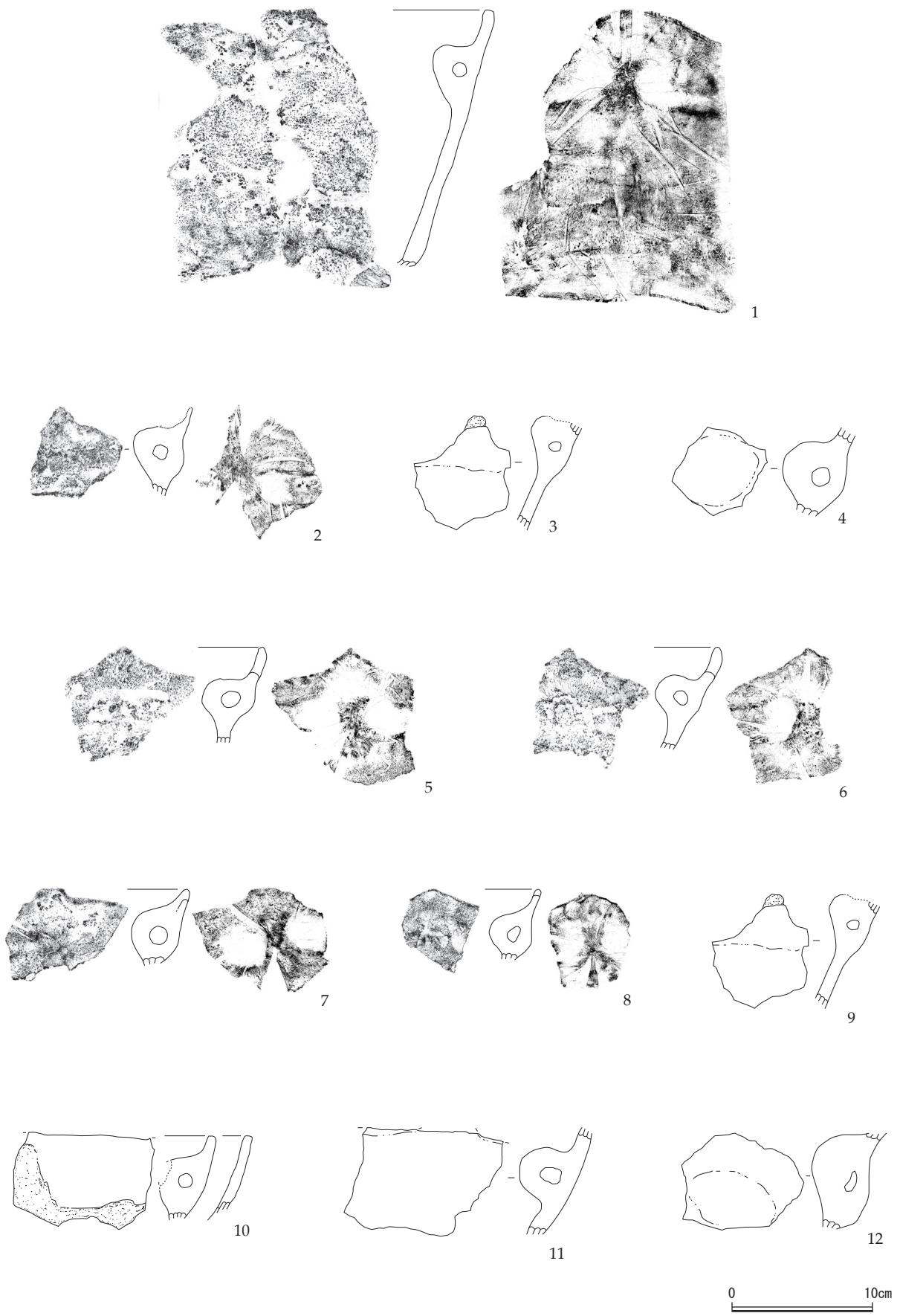
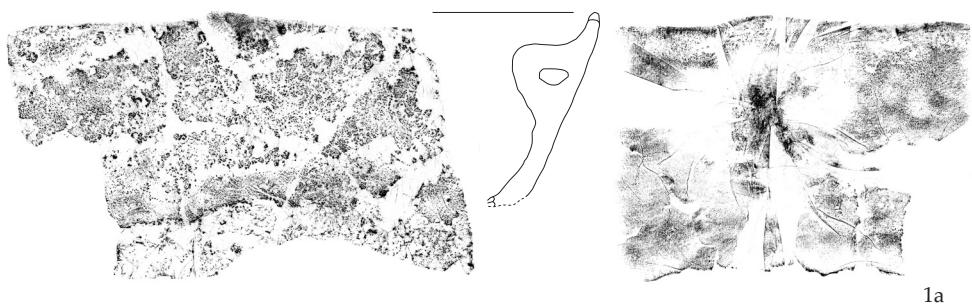
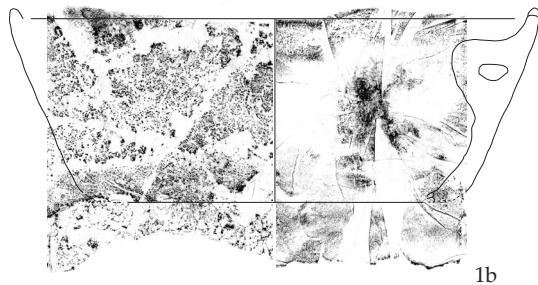


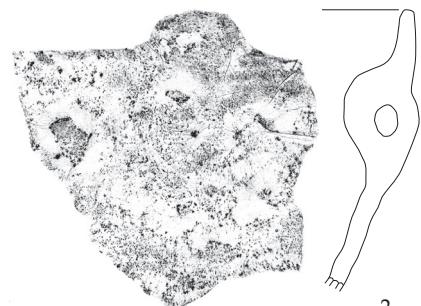
Figure 10: Ceramic fragments (4) [1-12: Andrianovka]



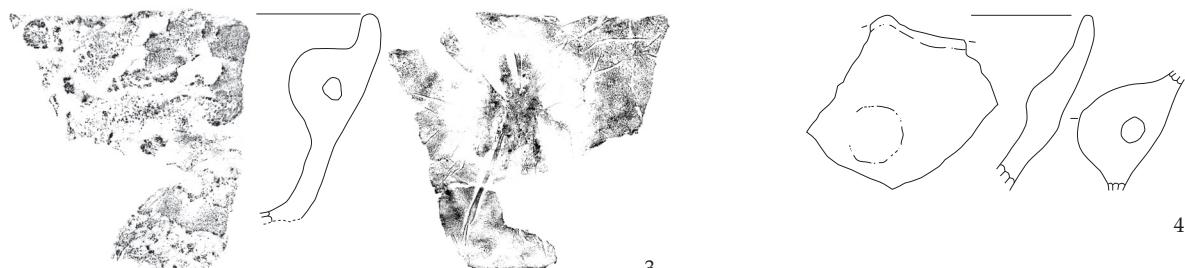
1a



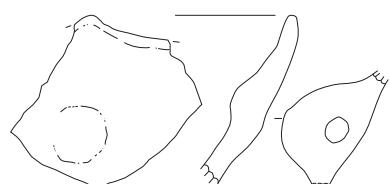
1b



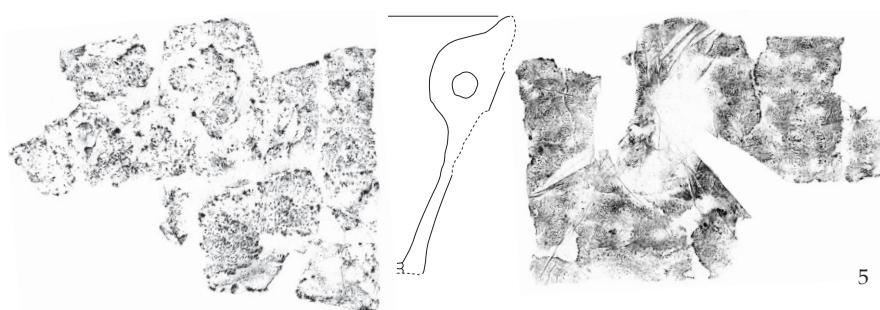
2



3



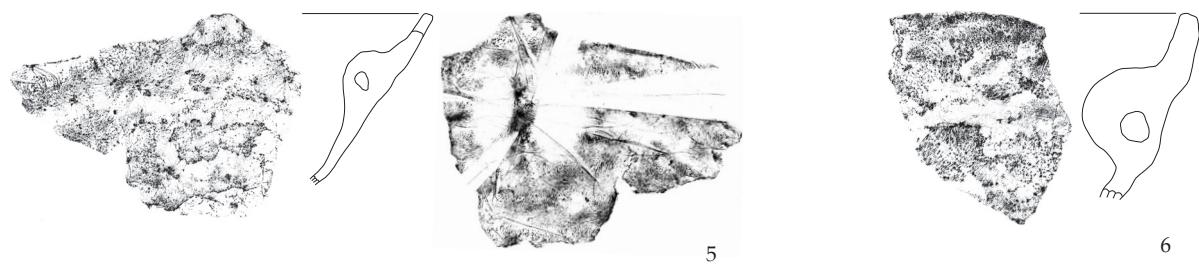
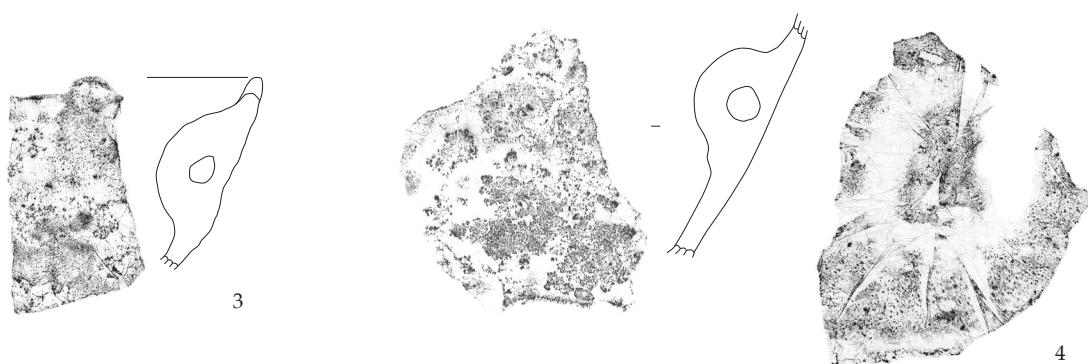
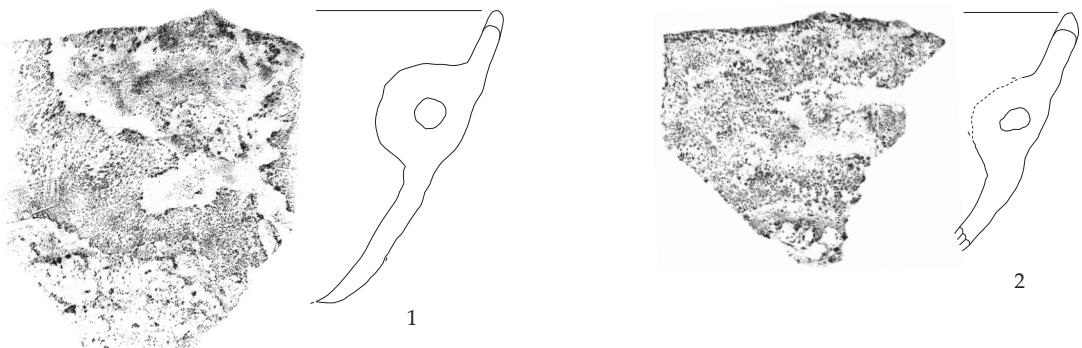
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5

0 10cm

Figure 11: Ceramic fragments (5) [1-5: Andrianovka]



0 10cm

Figure 12: Ceramic fragments (6) [1-8: Andrianovka]

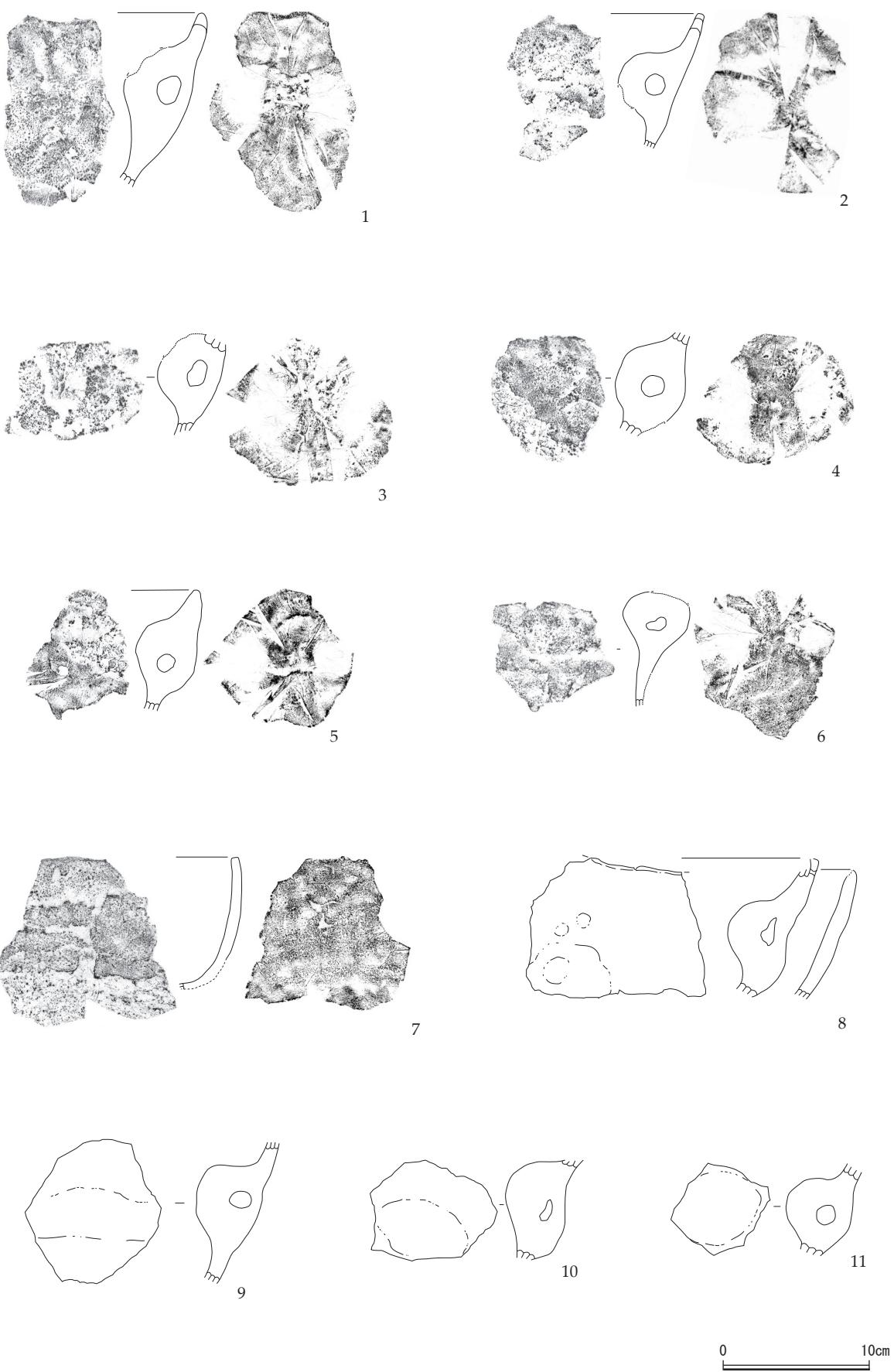


Figure 13: Ceramic fragments (7) [1-11: Andrianovka]



Figure 14: Ceramic fragments (8) [1-10: Lopatka I]

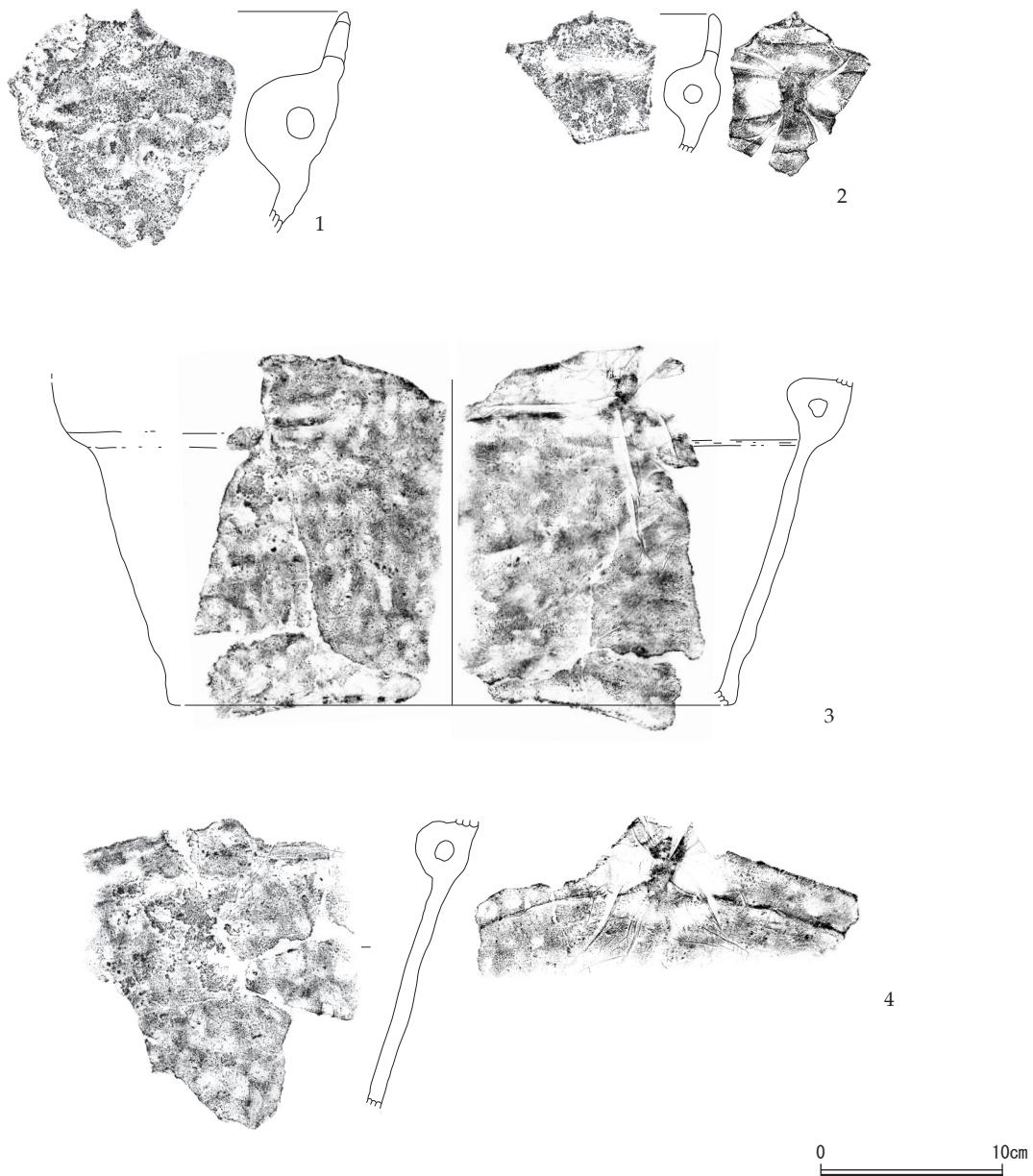
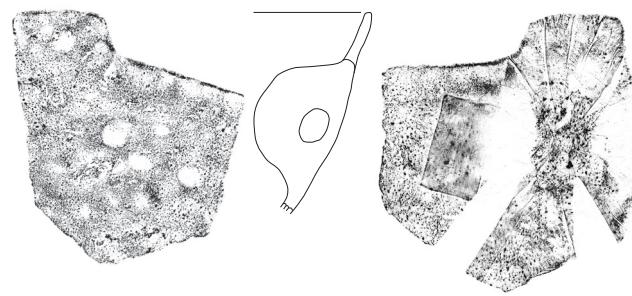
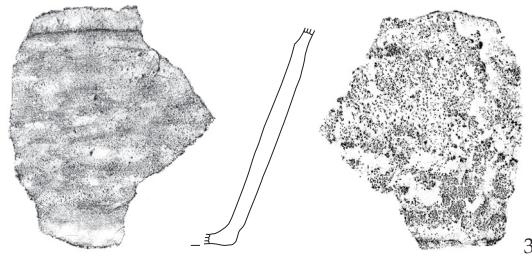
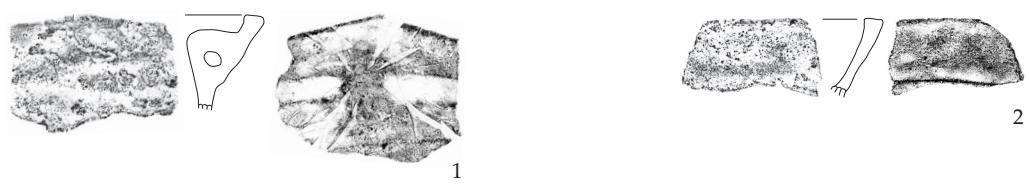


Figure 15: Ceramic fragments (9) [1-4: Siyushk]



0 10cm

Figure 16: Ceramic fragments (10) [1-3: Kirpichnaya; 4: site unknown]

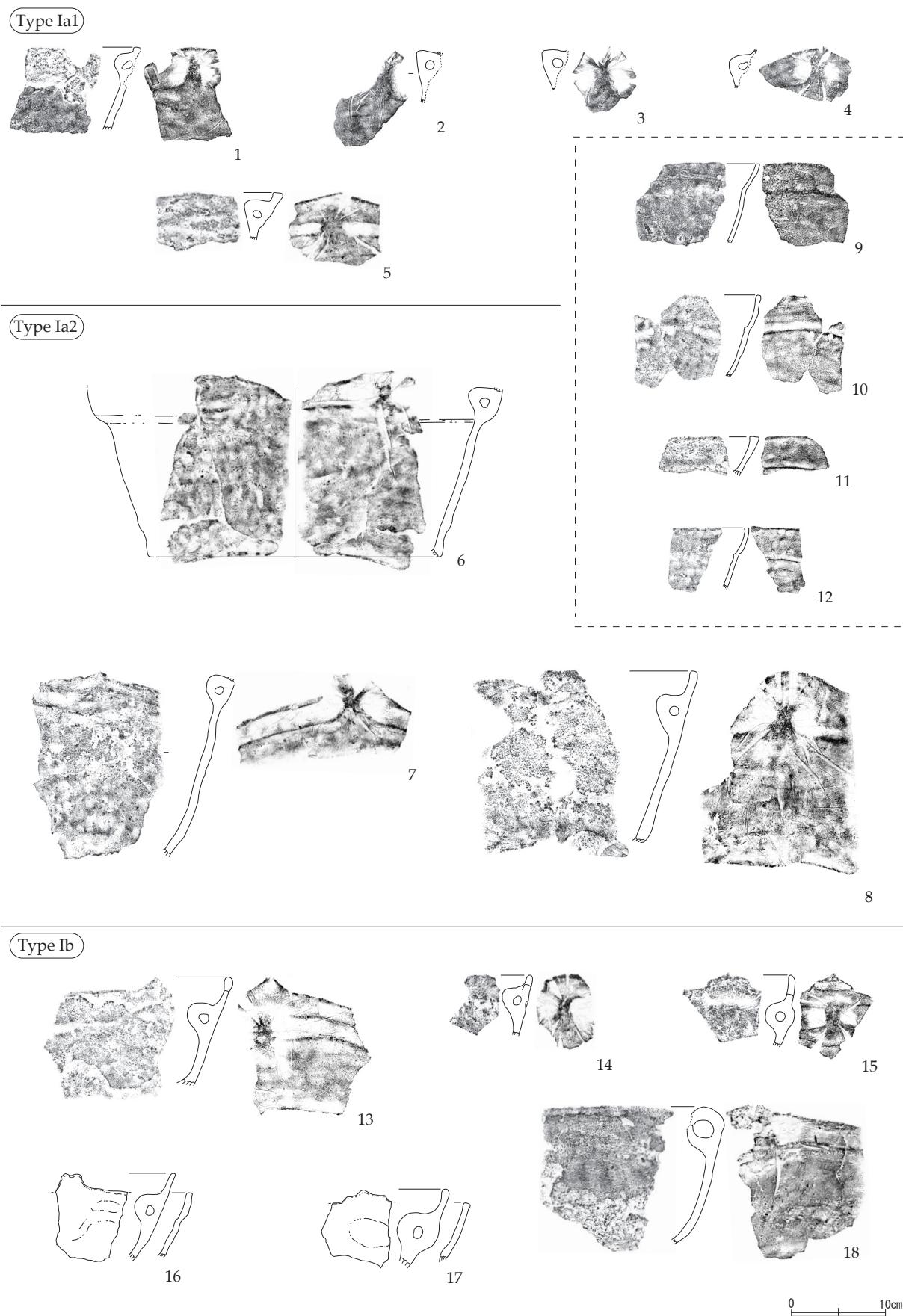


Figure 17: Pottery types (1) [1-4, 9, 18: Lopatka I; 5, 11: Kirpichnaya; 6, 7, 15: Siyushk 1; 8, 10, 12, 13, 16, 17: Andrianovka; 14: Yavino 3]

Type II

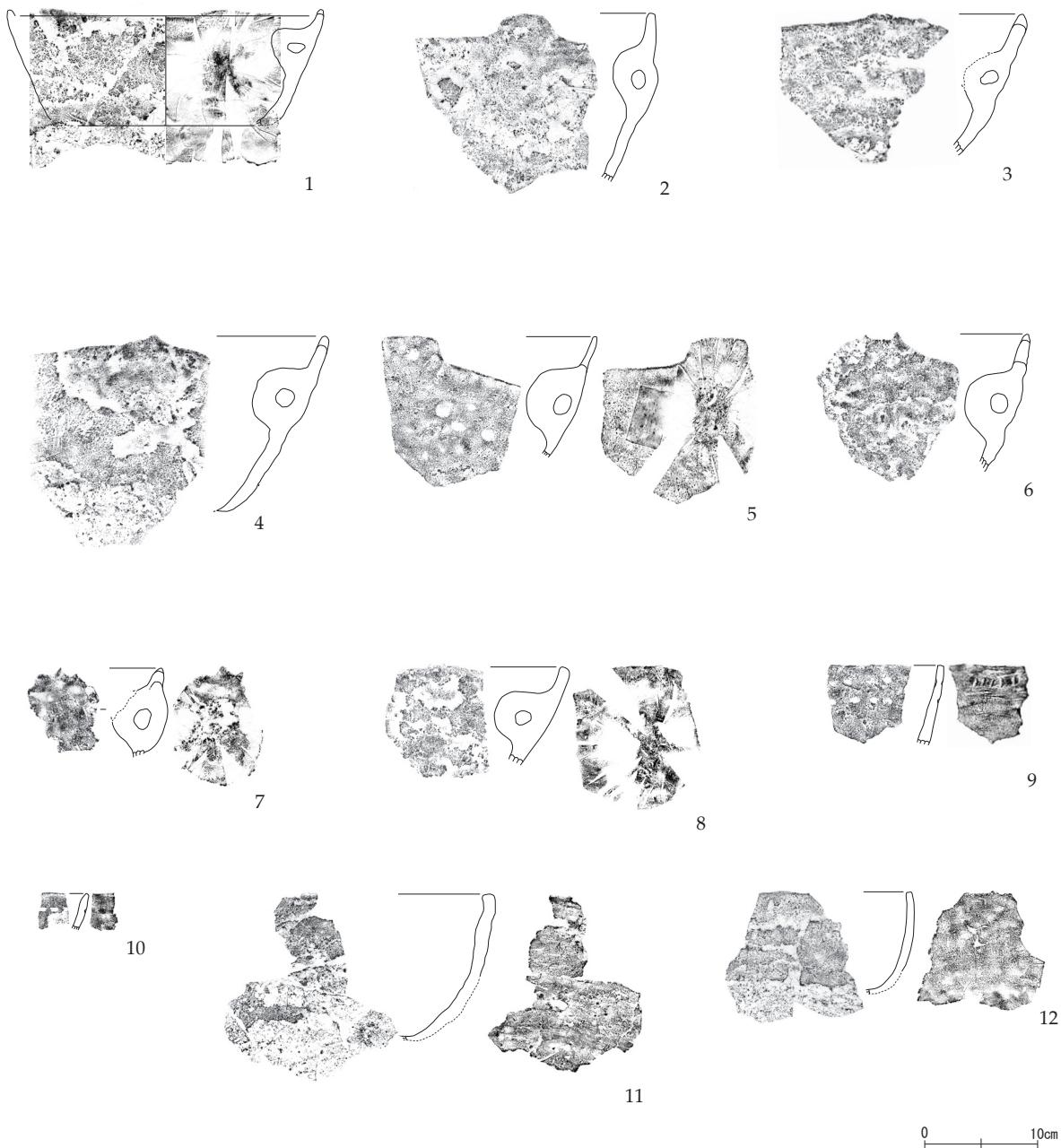


Figure 18: Pottery types (2) [1-4, 12: Andrianovka; 5: site unknown; 6, 8: Siyushk; 3, 7: Yavino 3; 11: Lopatka I; 9, 10: Yavino 4]

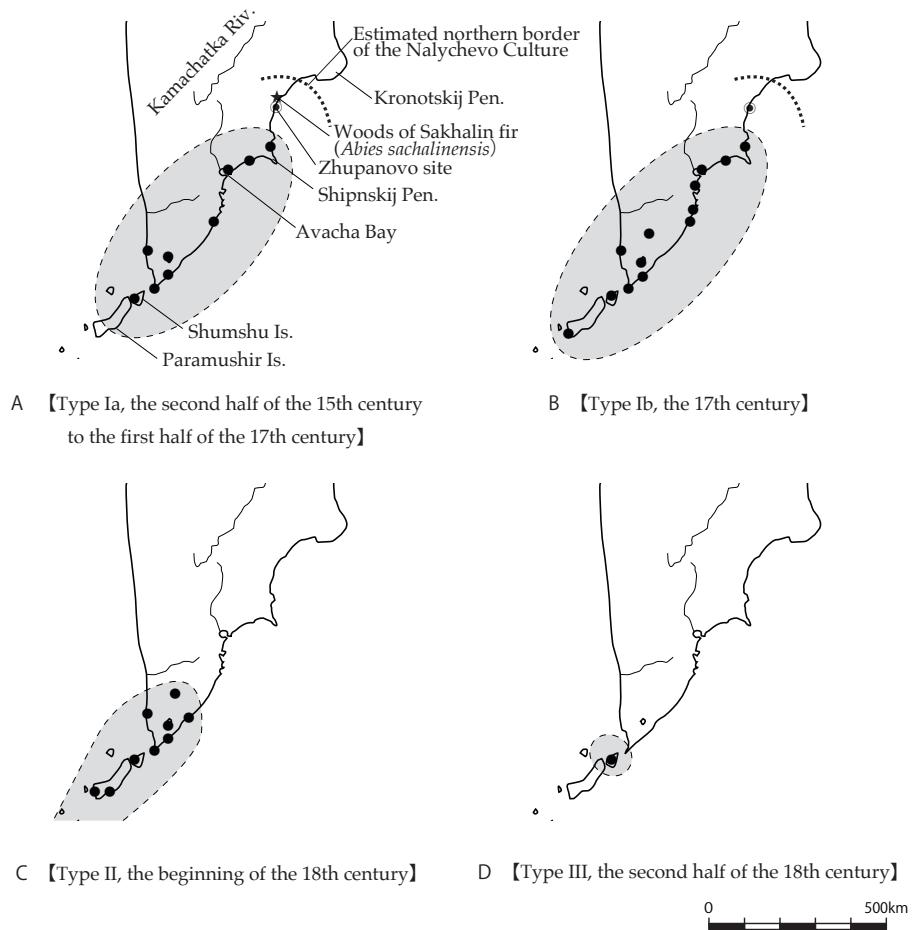


Figure 19: Temporal change in the distribution of Naiji pottery in Kamchatka and the Northern Kuril Islands
(modified from Takase 2015)

Chapter 4. Stone tools

More than 17,800 lithics are included in the collection. Flakes, retouched flakes, utilized flakes, and cores account for approximately 90 % of the entire materials (Tab.3). Nevertheless, this is one of the most important lithic collections in Southern Kamchatka because the number of regular tools is also likely to be the largest. This collection demonstrates that andesite, obsidian, chert, and chalcedony are frequently used for making stone tools in Southern Kamchatka (Tab.4). Obsidian is thought to have been brought from remote production areas (e.g., Kuzmin *et al.* 2008), while other kinds of stone could be local materials of the coastal areas in Southern Kamchatka. Brief description for each artifact class is as follows:

Point (Fig.21.1-11): It is not easy to find out the efficient criteria to distinguish points from arrowheads in the collection because their shape and size change gradually. Here, pointed tools over 4 cm in length are classified as points for descriptive purposes. Point is the most common implement among chipped stone tools; more than 350 specimens are detected in the collection (Tab.3). Andesite, obsidian, and chert are frequently used for points (Tab.4). Several types can be recognized on the basis of shape and manufacturing technique; some specimen have a distinct stem (Fig.21.4, 5, 7, 8 and 11), while there are points without a stem or with a vague stem (Fig.21.1-3, 6 and 9). In general, they are bifacially flaked, but the surface of the original flake remains on both side in some instances (Fig.21.4).

Arrowhead (Fig.21.12-15): Arrowhead, pointed tools less than 4cm in length, is also one of the most common artifacts in the collection (Tab.3). Andesite, obsidian, and chert are main materials for making arrowheads (Tab.4). Leaf-shaped and stemmed arrowheads are common, while there is no triangular arrowhead in the collection.

Stemmed scraper (Figs.22.7-10 and 23.1-10): Sixty-nine specimens can be seen in the collection (Tab.3). They are elaborately made artifacts and characterized by an asymmetrical plan view, thin body, and a wide stem possibly for hafting. Andesite, obsidian, and chert are commonly used for this stone tool (Tab.4). This is one of the common implements in Southern Kamchatka; however, there is no stemmed scraper from the Zhupanova site although more than 80 tools are restored from this site.

End scraper (Figs.21.16-25 and 22.1-6): Among scrapers, end scraper is the most popular tool; 133 specimens were identified in the collection (Tab.3). Interestingly, obsidian is the most frequently used for this stone tool, although andesite and chert are also commonly used (Tab.4). Obsidian end scrapers are generally small and short (Fig.21.16-25), while long and fan-shaped end scrapers are made on relatively large andesite flakes (Fig.22.1-6). It is notable that 30 end scrapers are excavated at the Zhupanova site.

Side scraper (Fig.23.11 and 12): Sixteen specimens are discovered (Tab.3), but this is not popular tool in the collection. It is characteristic that relatively long side scrapers can be seen (Fig.23.11 and 12). As end scrapers, obsidian is frequently used for side scrapers (Tab.4). There is no side scrapers made on chert flakes.

Drill: Although stone tool for perforating is rare in Southern Kamchatka, there are several specimens complete with a projection as the drill edge made on a flake (Tab.3). Andesite, obsidian, and chert are used for this tool (Tab.4).

Flake, retouched flake, and utilized flake: More than 14,000 specimens were recognized in the collec-

tion (Tab.3). Andesite accounts for about half of these kinds of artifacts, although considerable number of flakes made of obsidian, chert, chalcedony, and shale also can be seen (Tab.4). There is a clear correlation between flakes and cores, indicating active stone tool production was conducted.

Chip: Flakes with the maximum length or breadth less than 1.0 cm are referred as chip in this catalogue. Even in the Lopatka IV site where 778 cores and 2,647 flakes are restored, there are only 2 chips (Tab.3). In contrast, a large number of chip were recovered from the Andrianovka and the Yavino 7 sites, although the number of cores and flakes is not so large in these sites. Different methods for the excavations or collecting tiny artifacts may be related to this result as a bias. It is also notable that the number of obsidian chip is much larger than that of andesite chip and chert chip (Tab.4).

Core (Figs.20 and 23.13): A large number of cores are included in the collection especially in artifacts from the Lopatka II, III, and IV sites (Tab.3). Various kinds of stone are used for cores, but there is a tendency that dominant raw materials are andesite and chert (Tab.4). In many instances, relatively large andesite pebbles are centripetally flaked using the natural surface as a platform. Although Dikova (1983) thought that they are stone tools of the Middle Paleolithic or earlier, there is no strong evidence supporting this hypothesis from the viewpoint of geoarchaeology, lithic technology, physical anthropology, and phylogenetics. We have already conducted radiocarbon dating of charcoal samples from these sites, all specimens are dated to a period during the Holocene. Thus, we believe that these cores are produced in Neolithic period or later. Flakes chipped from these cores were used mainly for making points, arrowheads, and several kinds of scrapers, but some cores must have been also used as tools.

Axe (Fig.24.1): Axe is a rare artifact class in the collection in comparison with adze; a single chipped

specimen can be seen in materials from the Kirpichnaya site (Tab.3). This axe is made on a large schist flake (Tab.4), and it is relatively thin and flat, while adzes has usually thick body in Southern Kamchatka.

Adze (Figs.24.2-14 and 25.1-5): Adze is the most common artifact among pebble tools in the collection (Tab.3). Knapping and grinding technique are used for making adzes, and partially ground adzes can be frequently seen in Southern Kamchatka. Relatively thick medium-size adzes with triangular or D-shaped cross section are dominant. Schist is the most popular stone for adzes in all sites (Tab.4). It is notable that a lot of adzes can be seen in the Kirpichnaya site. However, almost all of them are retouched broken adzes, and a specimen has an obvious notch on the side face (Fig.24.5). There are some small chipped fragments of adzes (Fig.25.2-5), indicating that broken adzes are eventually used as wedging pieces.

Hummer (Fig.26.1-10): Twenty hummers with punched traces were recognized from various sites (Tab.3). Coarse andesite is commonly used for this tool. In many cases, several surfaces of a pebble were used for crushing worked materials as shown in Fig.26.

Handstone (Fig.27.1-3): Three specimens are identified from the Lopatka II site (Fig.27.1-3). Flat ground surface can be seen on the both side of andesite pebbles. Possibly, they were used with anvil stones like specimens found at the Lopatka III and the Yavino 1 sites (Fig.29.3). Punched surfaces can be also seen on the surface of these handstones; therefore, they were used not only as handstone, but also as hummers.

Anvil stone (Fig.29.3): Two andesite examples were identified in artifacts from the Lopatka III and the Yavino 1 sites (Tab.3). The surface is ground, but there is no punched traces. These anvil stones are estimated to have been used with handstones.

Grinding stone (Fig.27.4-7): We found eight grinding stones in the collection (Tab.3). They are made of sandstone or tuff. There is a wide variation in size and shape. They are likely to be a main tool for finishing ground adzes and bone tools. Smaller grinding stones may be also used for sharpening iron knives.

Weight (Fig.25.6-12) **and float**: Eight sinkers are recognized at five sites (Tab.3). There are two types in sinkers; the first is roughly knapped pebble type (Fig.25.6-9 and 11) and the second is holed pebble type (Fig.25.10 and 12). Andesite and schist pebbles are used for this tool (Tab.4). An example from the Si-yushk 1 site demonstrates that this was not necessarily used only for the fishery in the ocean. A float made on a pumice pebble can be also seen in artifacts from the Zhupanovo site.

Wedging piece: Six chipped wedging pieces are restored from the Lopatka II, IV, and Yavino 9 sites (Tab.3). Chalcedony is frequently used for them, while obsidian and chert are also used for smaller number of specimens (Tab.4).

Stone lamp (Figs.28.1-7 and 29.1, 2): The collection

contains ten stone lamps (Tab.3). Andesite and tuff are commonly used for making this tool (Tab.4). Stone lamps are roughly divided into two types: elaborately made type (Fig.28.1, 2, 3 and 5) and roughly made type produced by using the concave surface of a pebble (Figs.28.4, 6, 7, 29.1 and 2). Stone lamps in the former type can be classified into some sub-types on the basis of shape and ornament (Suzuki 2014). A specimen shown in Fig.28.1 has ornaments not only on a projection with a hole to attach this tool to a wooden stick, but also on the exterior surface of the side wall.

Bead and ground stone stick (Fig.27.8): Two stone beads with a hole was detected from the Yavino 2 and 3 sites (Tab.3). They are made of chert and tuff (Tab.4). A long ground stone stick is identified in the collection (Tab.3). It is made of tuff (Tab.4), and its length is ca.38 cm. Although both ends are made like an axe, the edges are dull, and they are not suitable for practical use for cutting. There is no hafting traces on the surface of the tool by naked eye observation.

(K. Takase)



Figure 20: Cores from the Lopatka sites

Table 3: Stone tools in Dikova collection

	Siyushk 1 or Siyushk 2										Siyushk 2																					
	Kurni Lake road										Total																					
Point	38	6	2	23	11	3	54	2	47	154	1	2	3	7	1	2	1	1	357													
Arrowhead	20		4	1	1	2	12	25	56			2	1	3	3	7	7	1	134													
Stemmed scraper	3		14	1	1	2	8	15	21			1		3	3			1	69													
End scraper	30	1	2	6	1	10	9	11	26	1		2	5	2	11	5			133													
Side scraper							2												16													
Drill																																
Flake	387	77	12	206	35	1640	12	9	28	160	2157	1679	867	2647	8	13	342	1	24	190	182	116	15	28	1345	243	491	34	189	13137		
Retouched flake	165	7	4	40	4	27	3	1	30	111	8	100	472	10	5	5	11	17	8	1	51	7	26	2	10	1115						
Utilized flake	1	1	1	1	4	166	2	1	1	2	5	10	5	10	5	5	3	16	3	3	3	3	3	3	3	3	3	3	55			
Chip																																
Core	10	4	2	8	4	111	2	1	4	27	350	153	358	778	4	10	6	18	10	1	22	5	24	1	5	1918						
Axe																																
Adze	3	2	23	3	2	4	4													2	2	2	2	1	1	60						
Handstone																																
Hammer	3	1				1		1	4	2	2	5			1																	
Anvil stone																																
Grinding stone	1	2		1	1																											
Weight				4																												
Float	1																															
Wedging piece																																
Stone lamp	1					4		4																								
Bead																																
Ground stone stick						1																										
Unknown stone plate																																
Pebble	6	3	34	1	34	1	5	64	28	14	30	1	6	4	7	1	19	1	19	1	19	1	3	227								
Total	661	106	4	25	336	48	2010	21	11	34	249	2783	1872	1451	4209	9	13	371	2	36	220	247	155	19	31	1865	276	564	40	217	1	17886

Most part of stone tools from the Avacha site in Dikova collection is not included in this table.

Table 4: Raw materials used for stone tools

	Andesite	Obsidian	Granite	Chert	Chalcedony	Shale	Mudstone	Siltstone	Sandstone	Quartz	Tuff	Schist	Pumice	Petrified wood	Total
Point	152	140		61	3	1									357
Arrowhead	25	88		18	2	1									134
Stemmed scraper	28	16		20	5										69
End scraper	16	60		30	25	1									133
Side scraper	2	14													16
Drill	1	5		1											7
Flake	7190	2830	1	1857	879	296	1	11			1	6			13137
Retouched flake	526	259		268	56	5					1				1115
Utilized flake	4	46		3	1	1									55
Chip	45	486		44	16	2					1	1			595
Core	1448	41		296	98	16		5			3	11			1918
Axe											1				1
Adze		8									4	48			60
Handstone		3													3
Hammer		19					1								20
Anvil stone		2													2
Grinding stone								4		4					8
Weight		7													8
Float															1
Wedging piece			1	1	4										6
Stone lamp		7													10
Bead				1											2
Ground stone stick											1				1
Unknown stone plate	1														1
Pebble	133														227
Total	9617	3986	1	21	13	1	4	1	3	3	26	47	2		17886

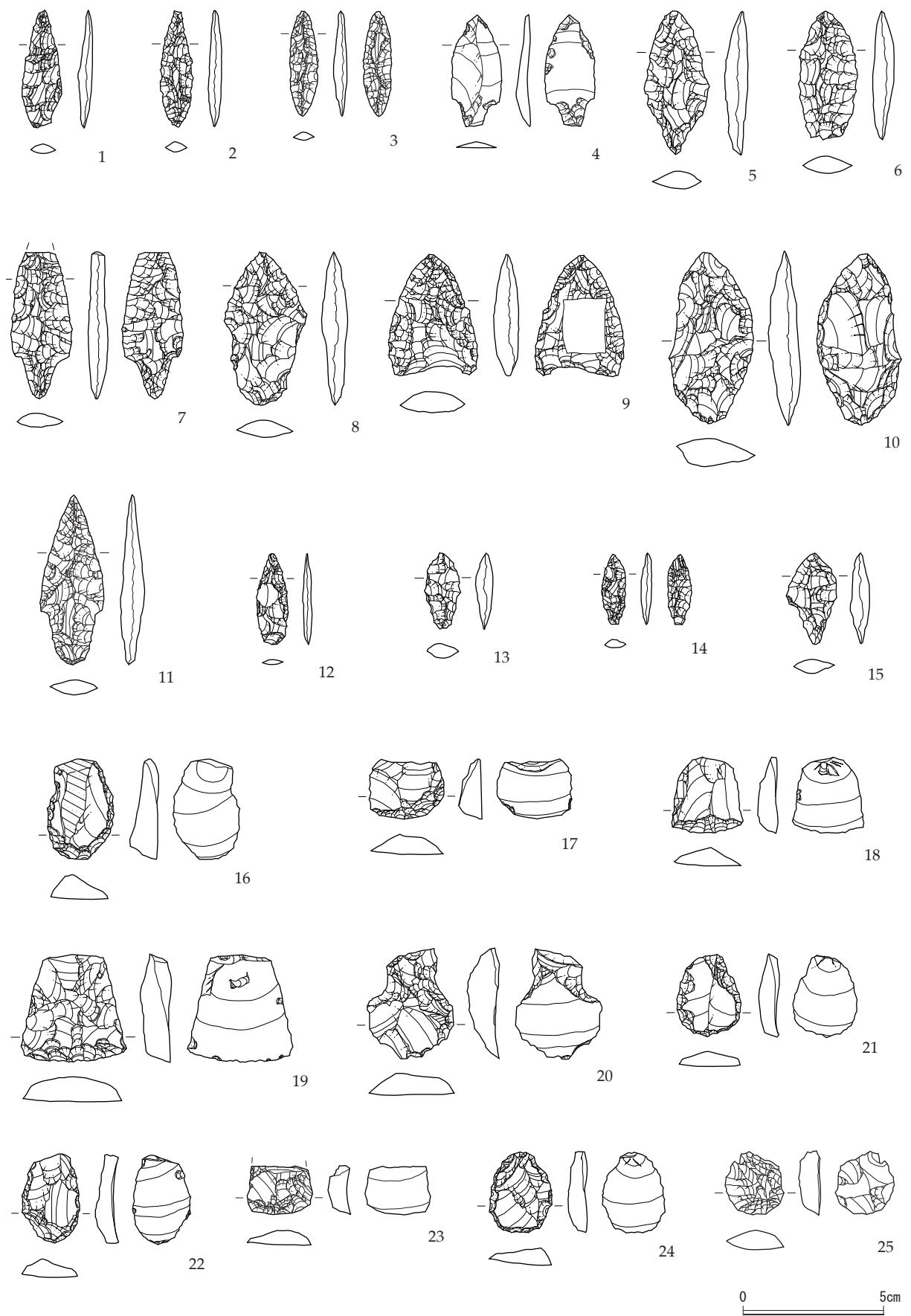


Figure 21: Stone tools (1) [1, 12, 14: Lopatka IV; 2, 5, 6, 13, 15, 17, 25: Lopatka II; 19: Lopatka I; 3, 4, 7, 11, 18, 20, 23: Kirpichnaya; 8, 9: Andrianovka; 10, 16: Yavino 4; 21, 22, 24: Yavino 7]

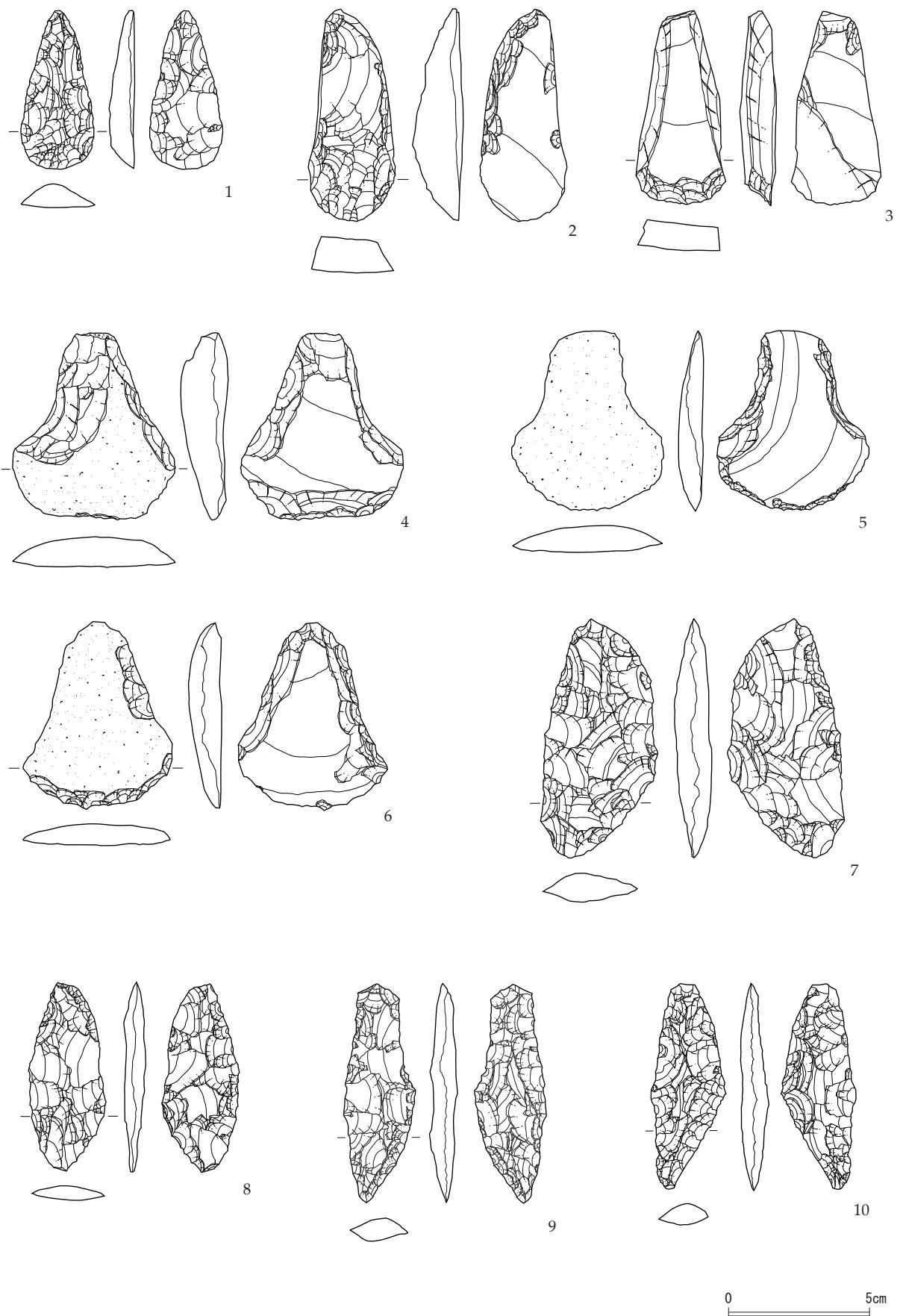


Figure 22: Stone tools (2) [1: Yavino 7; 2, 3: Andrianovka; 4: Lopatka I; 5, 6, 8: Lopatka IV; 7: Elizovo; 9, 10: Kirpichnaya]

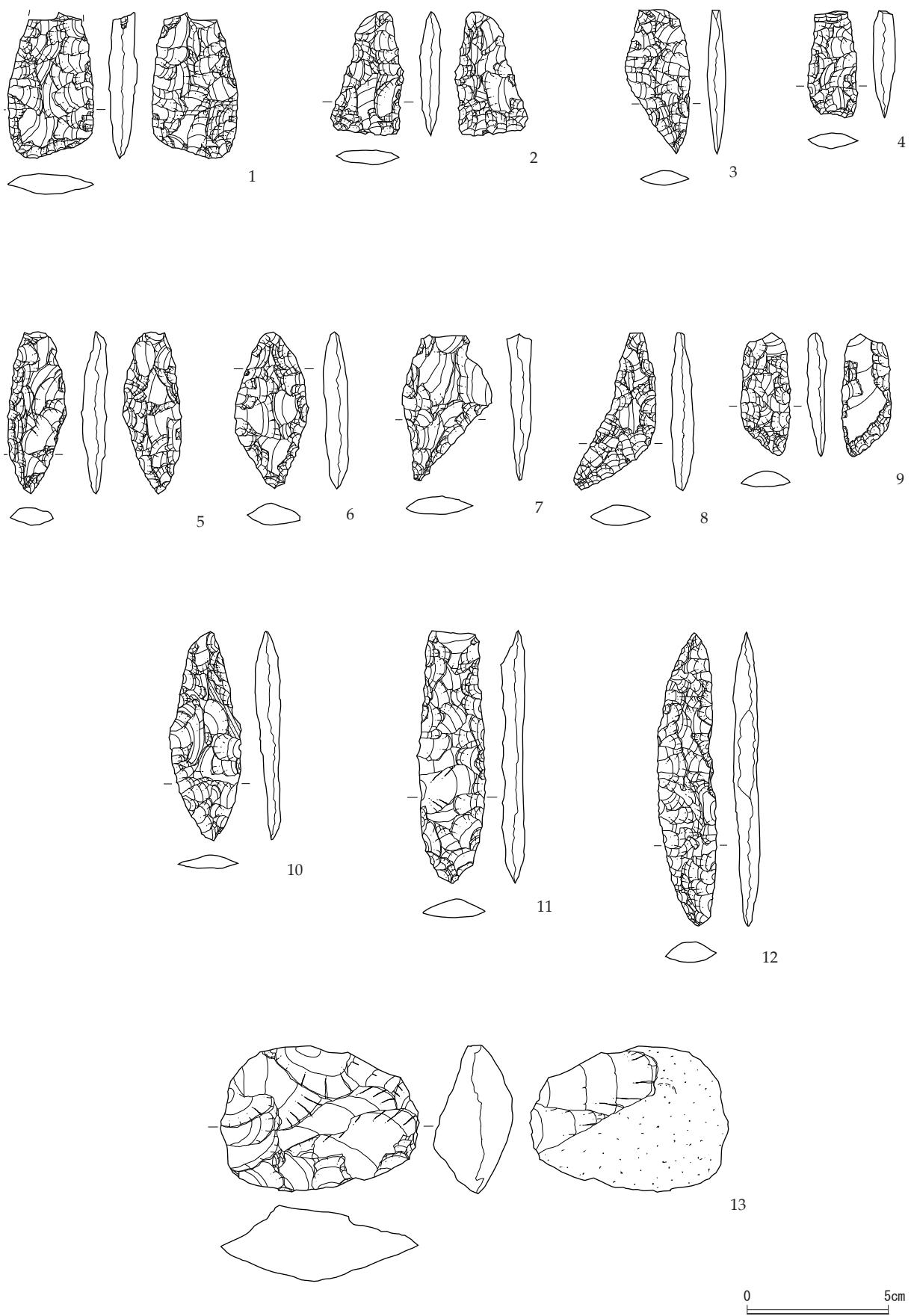


Figure 23: Stone tools (3) [1: Elizovo; 2: Yavino 8; 3, 5, 13: Lopatka IV; 4, 6, 11: Andrianovka; 7, 8: Lopatka II; 9, 10, 12: Kirpichnaya]



Figure 24: Stone tools (4) [1, 4, 5, 9, 10, 12, 14: Kirpichnaya; 2, 13: Lopatka III; 3: Siyushk 2; 6: Andrianovka; 7: Yavino 4; 8: Yavino 7; 11: Lopatka I]

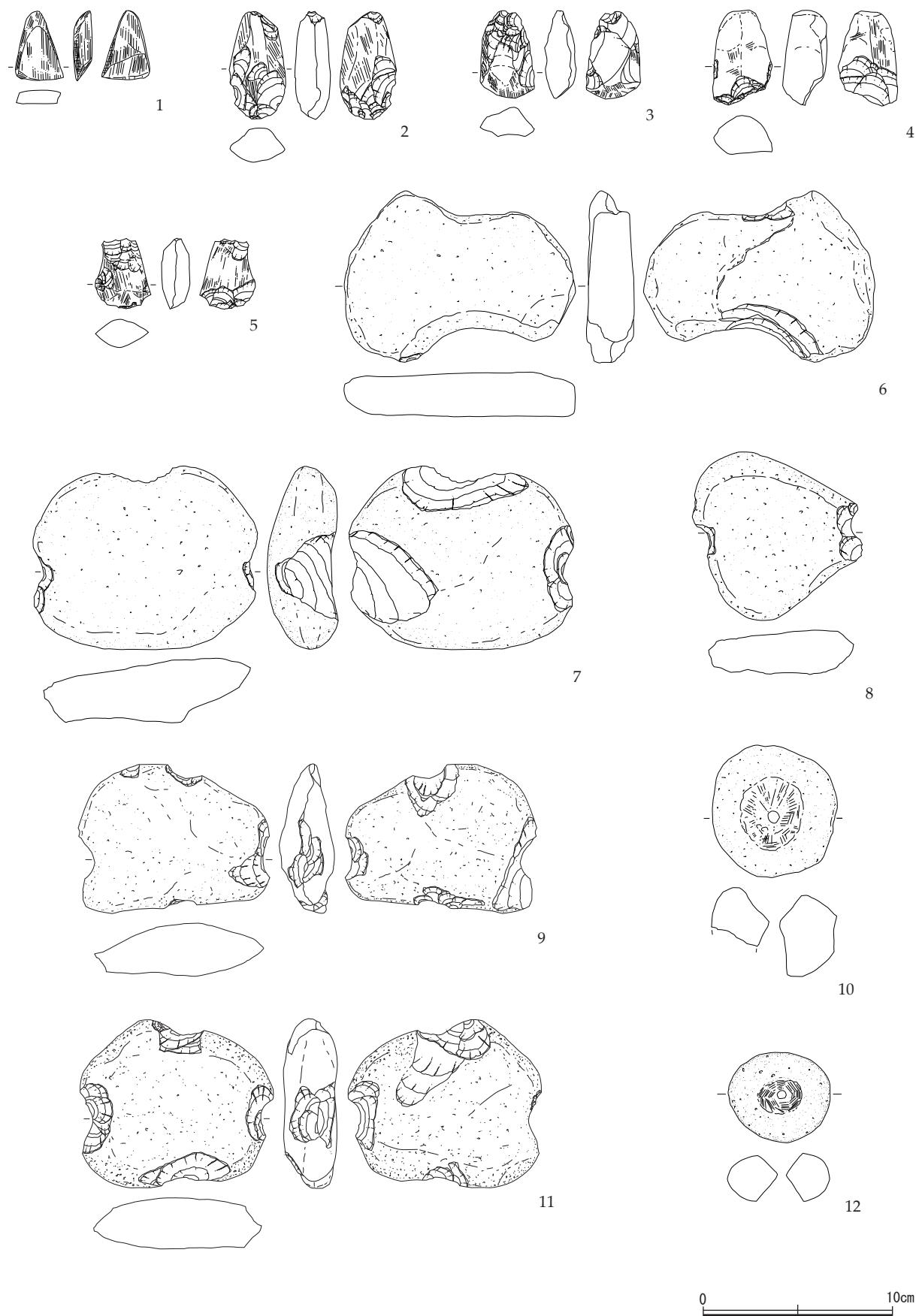


Figure 25: Stone tools (5) [1, 6: Siyushk 1; 2, 4: Kirpichnaya; 3, 5: Lopatka III; 7: Lopatka II; 8: Yavino 4; 9, 10, 12: Lopatka IV; 11: Andrianovka]

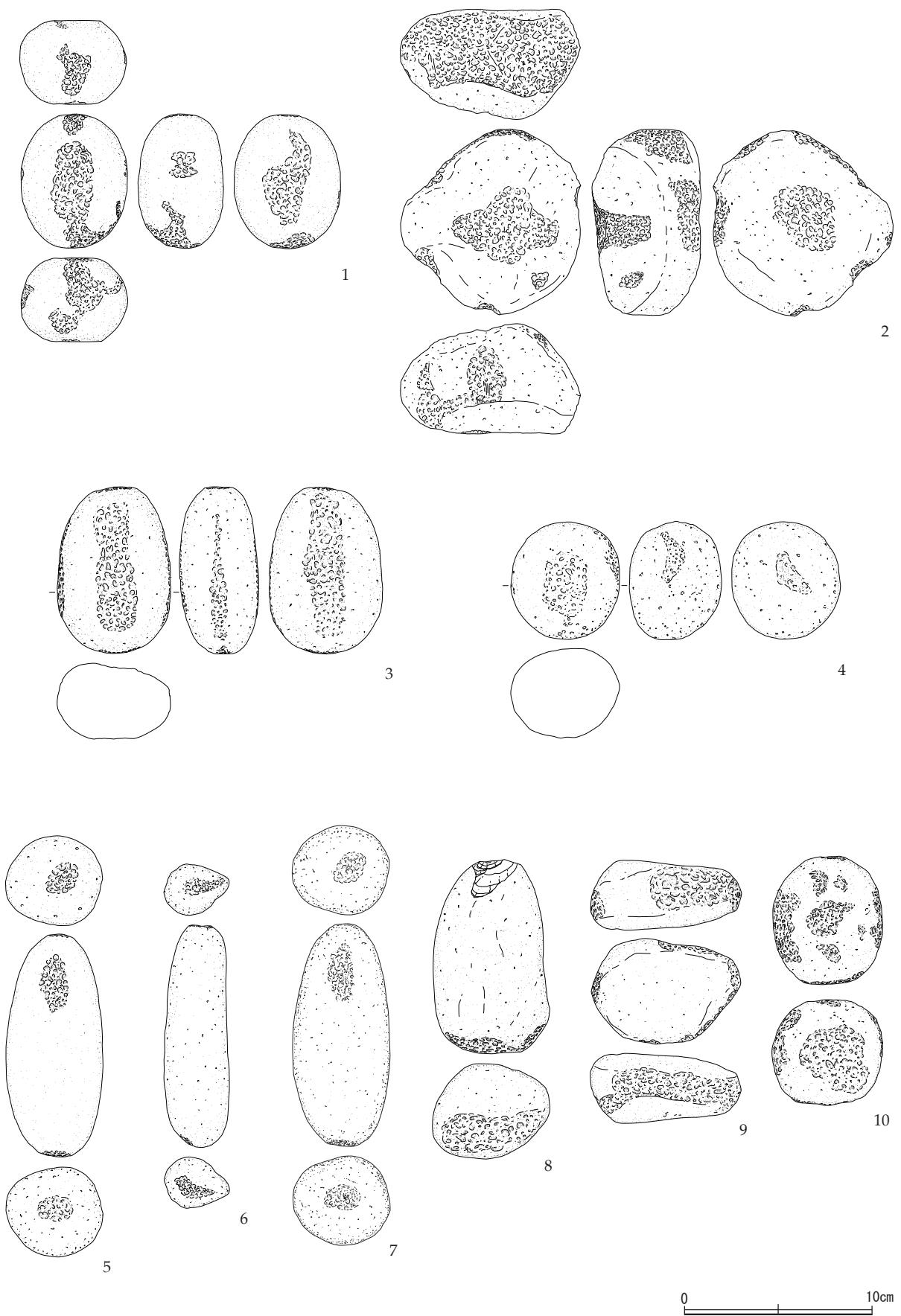


Figure 26: Stone tools (6) [1, 4: Lopatka IV; 2, 3: Lopatka III; 5: Yavino 1; 6: Lopatka I; 7, 10: Lopatka II; 8: Andrianovka; 9: Zhupanovo]

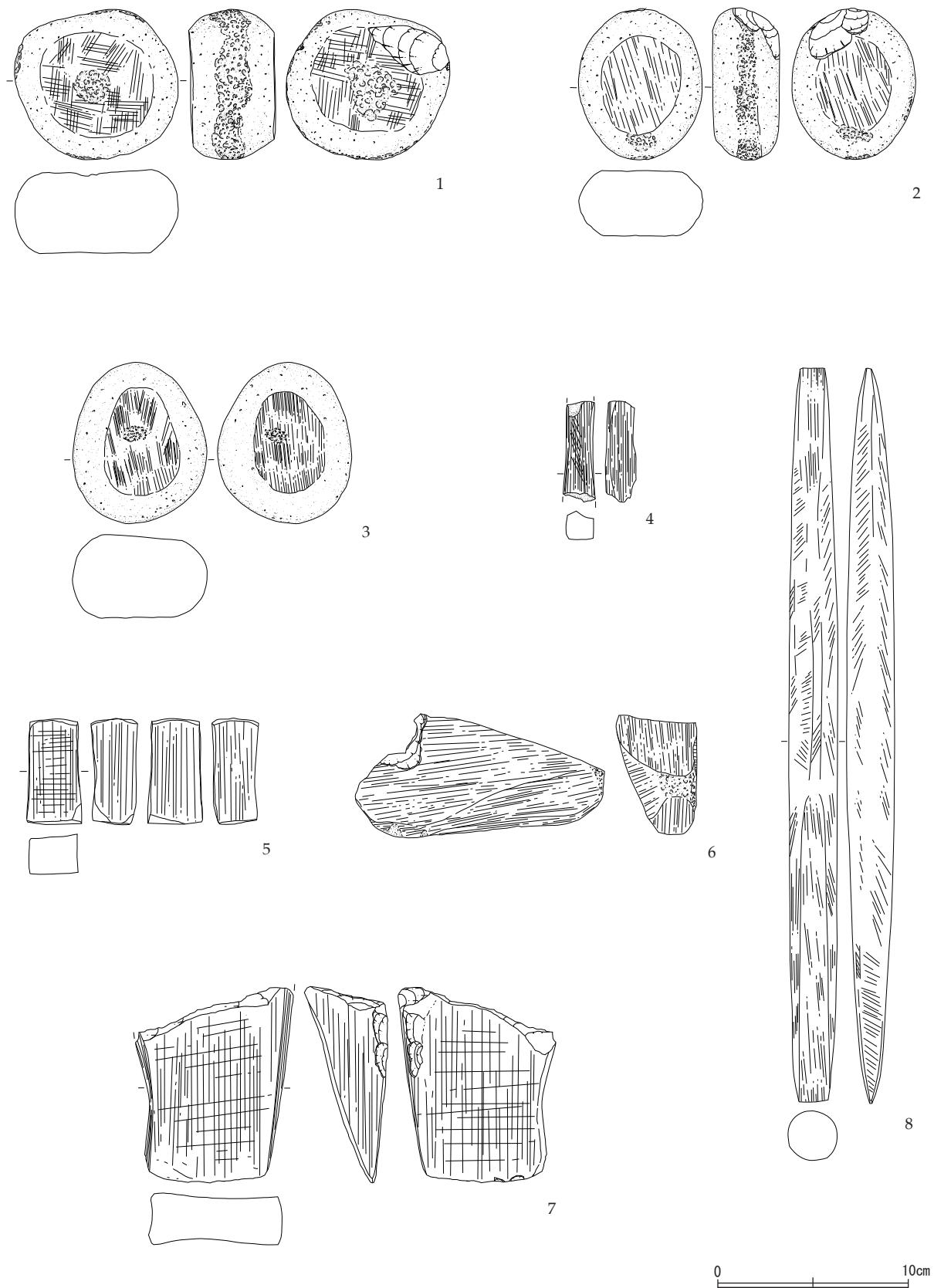


Figure 27: Stone tools (7) [1-3: Lopatka II; 4: Siyushk 1; 5: Andrianovka; 6: Zhupanovo; 7: Kirpichnaya; 8: Lopatka I]

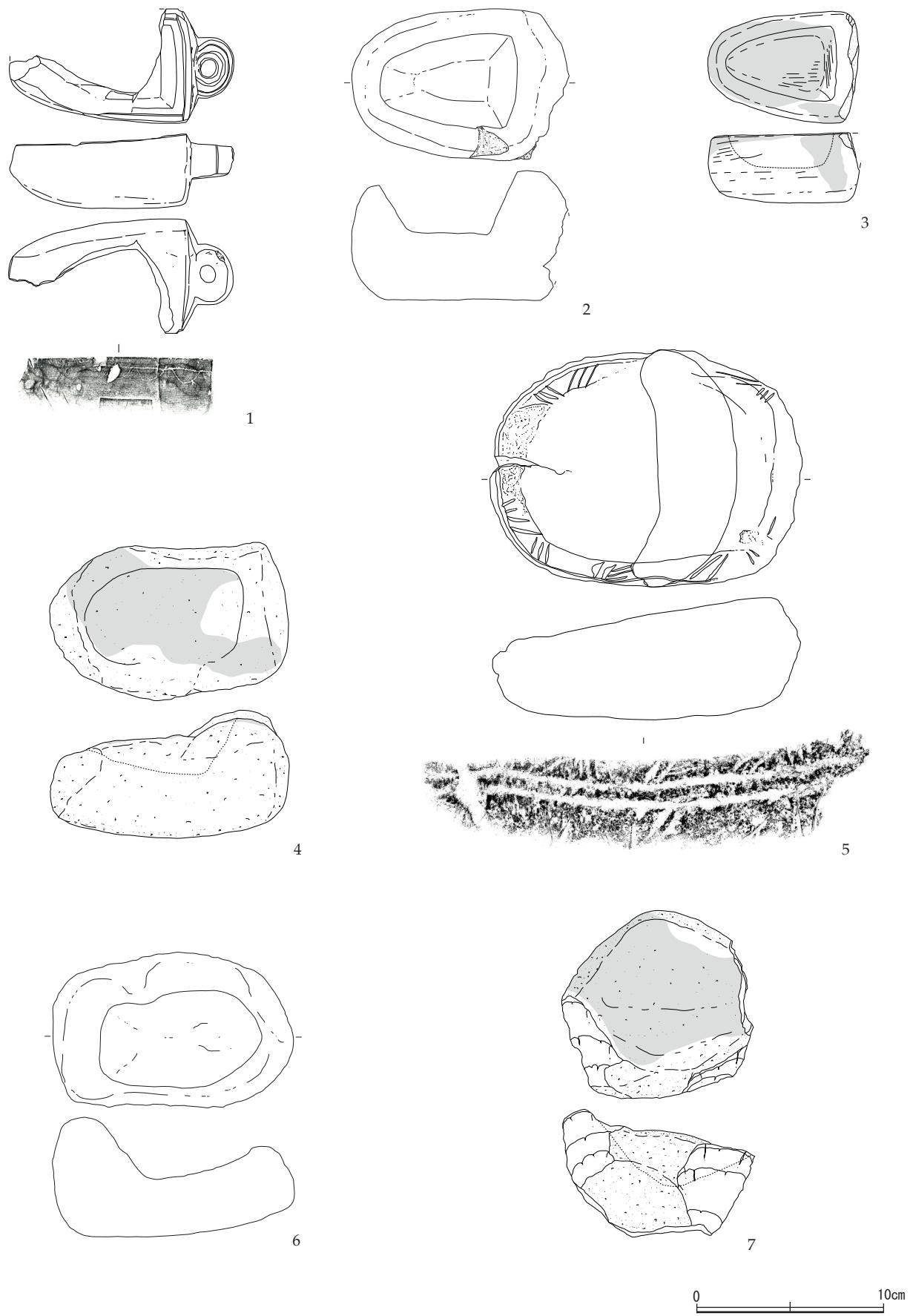


Figure 28: Stone tools (8) [1: Lopatka I; 2, 3: Siyushk 2; 3: Siyushk; 4, 6, 7: Andrianovka; 5: Elizovo]

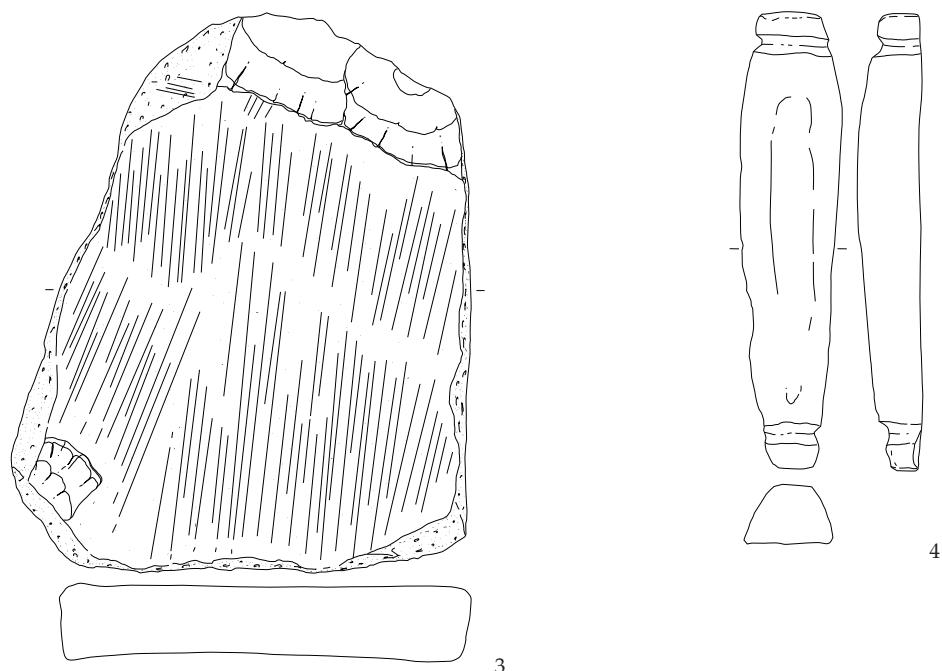
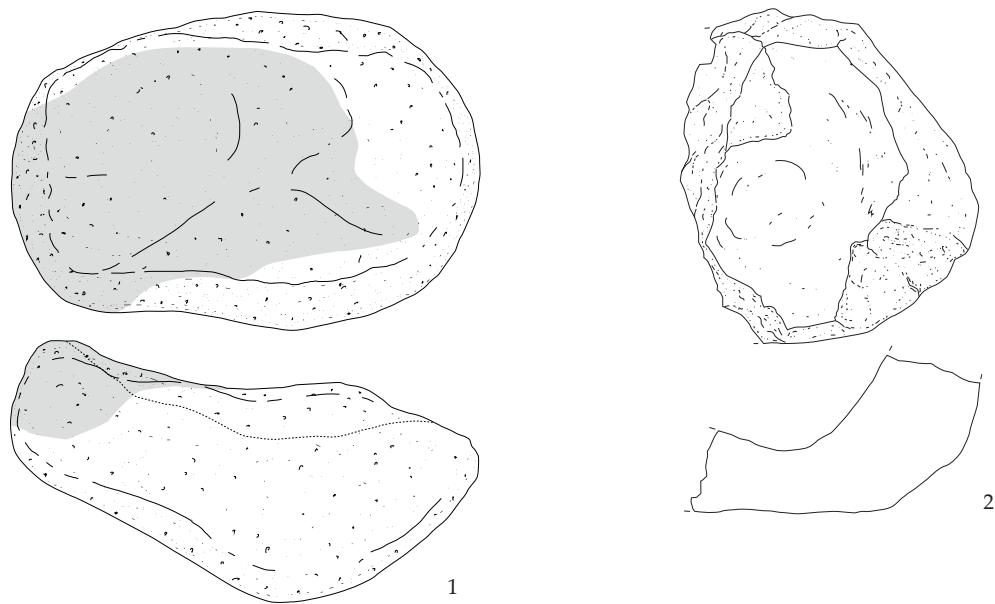


Figure 29: Stone tools (9) and a wooden tool [1: Andrianovka; 2: Siyushk; 3: Lopatka III; 4: Lopatka I]

Chapter 5. Bone tools

In Dikova collection, we recognized more than 150 bone tools. Processed bones and bone chips are not included in this result since we are planning to examine them with archaeofaunal remains in another paper. Here, we present only information on bone tools. Most of the diagnostic and representative materials have been already shown in Figures 36-40 and Plates 17-20 and 26-28 of Dikova's book (Dikova 1983).

Although bone tools were found from various sites, there is no material from inland sites such as the Siyushk sites and the Elizovo (Tab.5). No bone tools were restored in our excavations around the Kuril Lake (e.g., Takase 2013a); preserve condition of faunal remains in inland areas is like to be worse than coastal areas in Southern Kamchatka.

Bone arrowhead (Figs.30.1-21 and 31.1-4): Bone arrowhead is one of the popular bone tools in this collection; twenty-nine specimens and one unfinished product can be seen (Tab.5). Various raw materials are used for this tool (Tab.6). A wide morphological variety can be recognized in this tool. Basically, it is classified into stemmed type and non-stemmed type. In the former type, some specimen has a shallow groove possibly to put poison extracted from aconite (Fig.30.16, 17 and 18). There are two kinds of stem: a short stem (Fig.30.11 and 12) and a long stem (Fig.30.7, 8, 9 and 16-20). Bone arrowheads with inserted stone point can be also seen in the Northern Kurils (Takase and Kato 2016), but there is no such an arrowhead in the collection.

Although the use of specimens with a dull end has not yet been clarified, they are also included in bone arrowhead in this catalogue because there is the possibility that they are used for bird hunting (Figs.30.21 and 31.1, 2). Similar materials have been found from the Kuril Islands (Takase and Kato 2016). A small arrowhead with a rounded end is also likely

to be an arrowhead for birds (Fig.31.4). A preform of an arrowhead was also recognized (Fig.31.3).

Besides these materials, two arrowheads are exhibited in the museum at NEISRI (Chapter 6).

Harpoon head (Fig.32.1-12): Currently, 13 harpoon heads and 5 unfinished products are contained in the collection (Tab.5). Caribou antler is the most common material for harpoons (Tab.6). Typological features of specimens shown in Fig.32.2, 3, 4 and 5 suggest that materials of the Nalychevo Culture are included in the collection. Long harpoons with many spurs shown in Fig.32.9 have been discovered not only in Southern Kamchatka (e.g., Takase 2013a), but also in the Northern Kurils (e.g., Takahashi 2008). These are also likely to be assigned to the Nalychevo Culture. Although it is still difficult to determine the age of other materials, harpoon heads from the Avacha site shown in Fig.32. 7 and 8 should be dated to the Tarya Culture period. Besides these materials, a harpoon head of the Nalychevo Culture is in the exhibition of the museum at NEISRI (Chapter 6).

Foreshaft (Fig.31.5-8): Five foreshafts and a preform are recognized in the collection (Tab.5). Sea mammal bone is frequently used for foreshafts (Tab.6). Curved lines can be seen on two specimens (Fig.31.5, 7). Another foreshaft is also exhibited in the museum of NEISRI (Chapter 6).

Spearhead (Fig.31.9 and 10): Two materials are illustrated in Fig.31.9 and 10. Their shape is very similar and length of both specimens is more than 20 cm. There is a large hole in the center of the tool, and a short stem can be seen. Such a large spearhead has not yet been discovered in the Northern Kuril Islands.

Fishhook (Fig.35.2 and 3): We found three fish-

hooks (Tab.5). Two materials shown in Fig.35.2 and 3 are shanks made of caribou antler. A bone point must have been composited with a shank shown in Fig. 35.2, while narrow metal point is likely to have been used with a shank shown in Fig.35.3.

Bone adze (Fig.33.1-3): It is not easy to distinguish bone adzes from wedges. In this catalogue, we classified materials with knobs or uneven surface on the lateral sides for fixing on a haft as bone adzes. There are 5 bone adzes and an unfinished product in the collection (Tab.5). Caribou antler and sea mammal bones are used for making them (Tab.6).

Bone knife (Fig.35.1): There is an elaborately made bone knife. It is relatively large (26 cm in length), but the thickness is less than 1 cm. Ono (2000) investigated the temporal change in iron knives from Hokkaido. According to the result of chronology, a plan view of a bone knife shown in Fig.35.1 is similar to that of iron knives classified as type III dated to the 17th century and later in Hokkaido. At the same time, Ono (2000) points out that type III iron knives go back to the 16th century in Central Japan. Although it is not still clear if there is a strong correlation between the temporal chnage in bone knives from Kamchatka and iron knives produced in the Japanese Islands, this bone knife is likely to be dated to the Nalychevo Culture period.

Bow nock (Fig.35.4): A bow knock with ornaments can be seen in artifacts from the Lopatka I site. It is relatively large (11 cm in length) bow nock, while its thickness of the wall is only 2 mm. Caribou antler is used for making this material (Tab.6).

Wedge (Figs.33.4-8 and 34.1-3): Large edges without knobs and uneven surfaces are referred as wedges in this catalogue. Wedge is the most common bone tool in the collection. We found 32 specimens (Tab.5), and many of them have punched traces on the base. Caribou antler and sea mammal bone are used for producing wedges (Tab.6).

Comb (Fig.34.11-14): There are 4 combs in the collection (Tab.5). They are all vertically long type combs. Unfortunately, all materials are partially broken. Three specimens have ornaments (Fig.34.11, 13 and 14). The smallest specimen is made of mammal tooth or tusk (Fig.34.14), while other materials are made of caribou antler.

Needle (Fig.34.6-10): Needle including awl is also one of the most common artifact classes of bone tools in this collection (Tab.5). Among 21 needles, 20 specimens are manufactured using bird bones such as albatross, cormorant, gull, and eagle/hawk (Tab.6). In the museum at NEISRI, another bone needle is also exhibited (Chapter 6).

Needle case (Fig.34.4 and 5): There are three needle cases in the collection; they are made of humerus or ulna of albatross and undetermined birds (Tab.6). A specimen has an ornament drawn by double line (Fig34.4).

Handle of iron knife (Fig.35.9): A handle for an iron knife with an elaborately carved ornamentation is included in the collection. This is made of caribou antler (Tab.6). The iron edge and the nail are not preserved, unfortunately.

Toggle (Fig.35.5 and 6): Three toggles are included in the collection (Tab.5). Caribou antler and undetermined mammal bone are used for them (Tab.6).

Ornament and pendant (Fig.35.7, 8, 10 and 11): Three materials shown in Fig.35. 7, 8 and 11 are not likely to be practical tools but ornaments. A specimen shown in Fig.35.10 also looks like non-practical tool, but its use remains an open question. There is the decoration on a side, and a wide groove can be seen on the other side. A slit is made on the lower part of the drawing, indicating that it can be put on a certain thin object.

Table 5: Bone tools in Dikova collection

	Zhupanovo	Avacha	Kirpichnaja	Andrianovka	Lopatka	Lopatka I	Lopatka II	Lopatka III	Lopatka IV	Shestaja Rechka	Total
Pointed weapon	2		2	1							5
Pointed weapon (unfinished)						1					1
Bone arrowhead	1		10	1	14		1		2		29
Bone arrowhead (unfinished)							1				1
Harpoon head		2	5		6						13
Harpoon head (unfinished)			2		2	1					5
Foreshaft			3		2						5
Foreshaft (unfinished)			1								1
Spearhead			1		2						3
Fishhook	1		2								3
Bone adze			3		1			1			5
Bone adze (unfinished)					1						1
Adze socket			1								1
Bone knife					1						1
Bone stick	5			1							6
Bow nock					1						1
Wedge			23		7	1		1			32
Comb			3		1						4
Needle	1		1	13		6					21
Needle case				2		1					3
Handle of iron knife				1							1
Toggle				2		1					3
Ornament						1					1
Pendant				1		1				1	3
Unknown bone product			3		2						5
Total	10	2	1	79	1	51	2	3	2	2	154

Pointed weapon: Five informal pointed weapon were recognized in the collection (Tab.5). All tools are likely to have been used for hunting. Pointed part was made on relatively long mammal bone or caribou antler. An unfinished product of pointed weapon was also found.

(K. Takase)

Table 6: Materials of bone tools (species and elements were identified by M. Eda and M. Etnier)

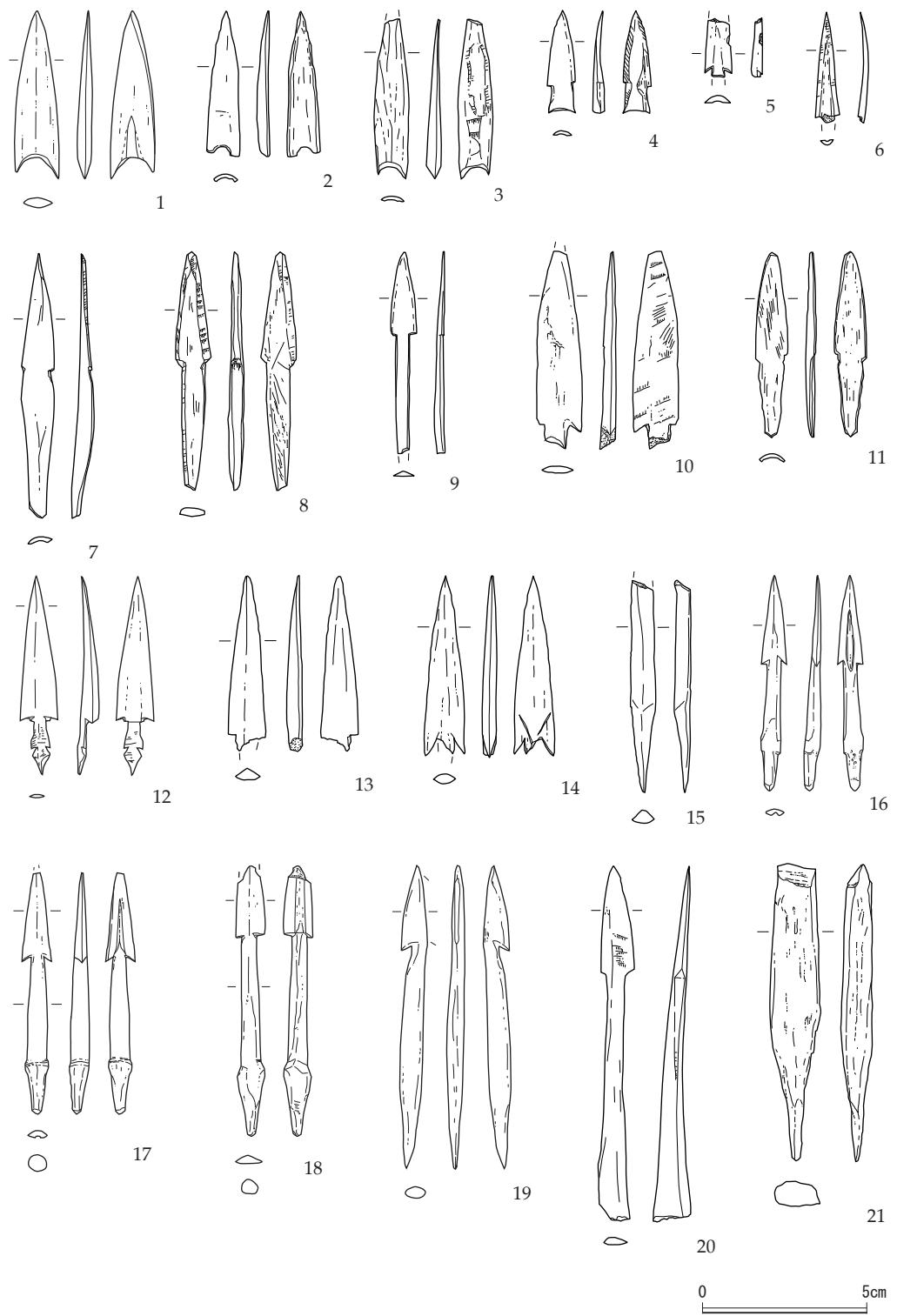


Figure 30: Bone tools (1) [1, 12: Lopatka II; 2-4, 13, 14, 17, 19, 21: Lopatka I; 5-9, 11, 18, 20: Andrianovka; 10, 15: Lopatka IV; 16: Lopatka]

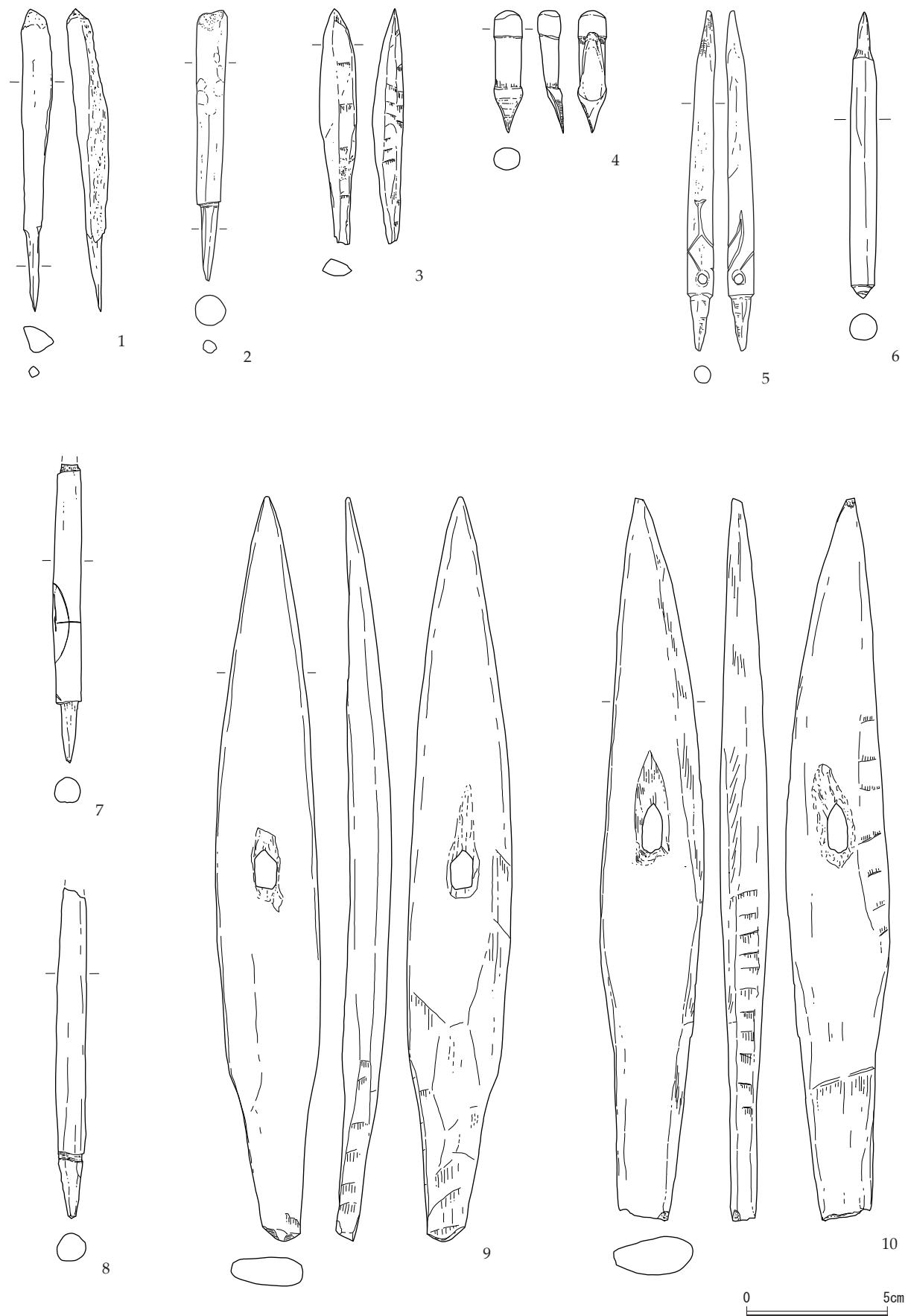


Figure 31: Bone tools (2) [1, 5, 6: Andrianovka; 2-4: Lopatka II; 7-10: Lopatka I]

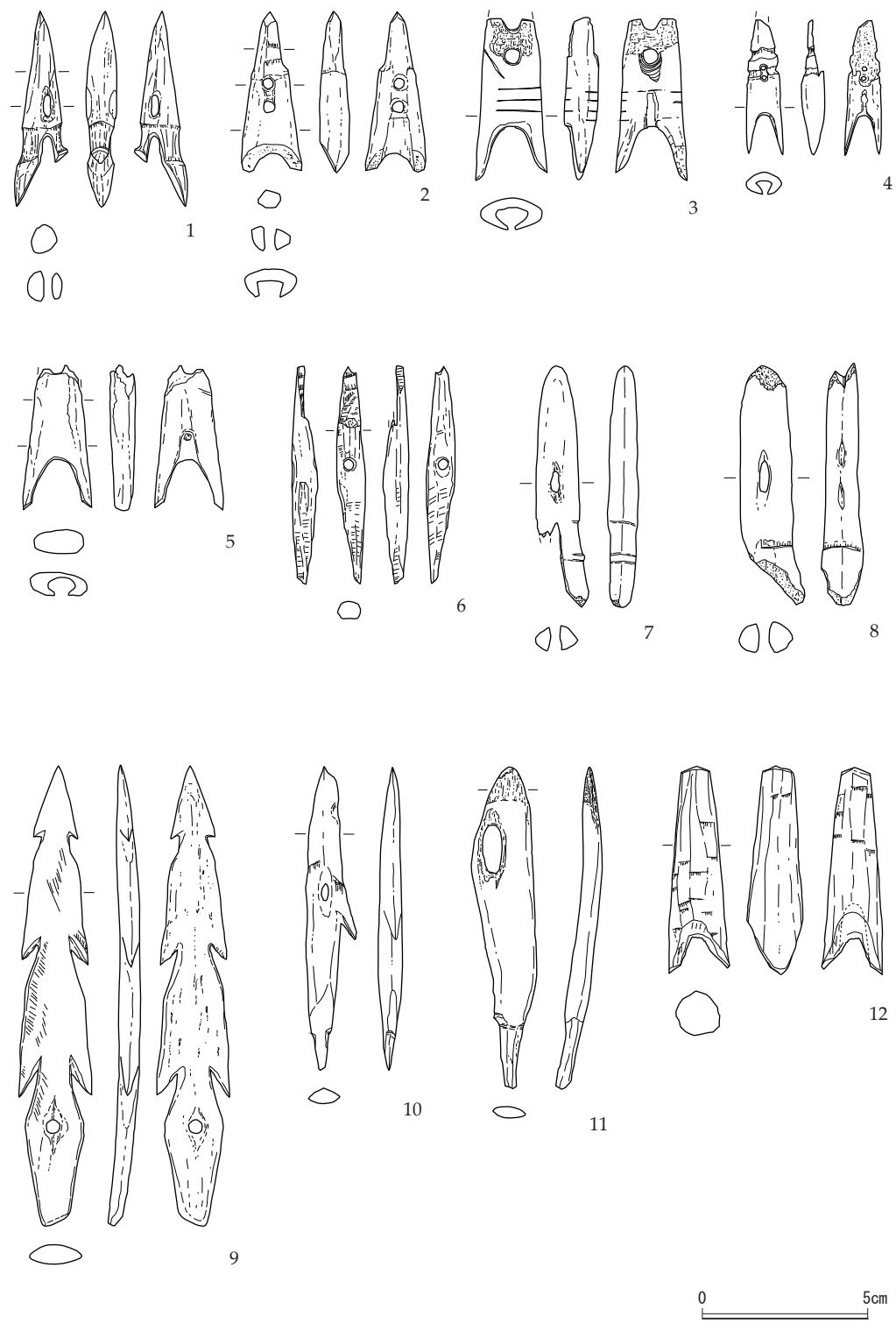


Figure 32: Bone tools (3) [1, 2, 5, 6, 9, 12: Lopatka I; 3, 4, 10, 11: Andrianovka; 7, 8: Avacha]

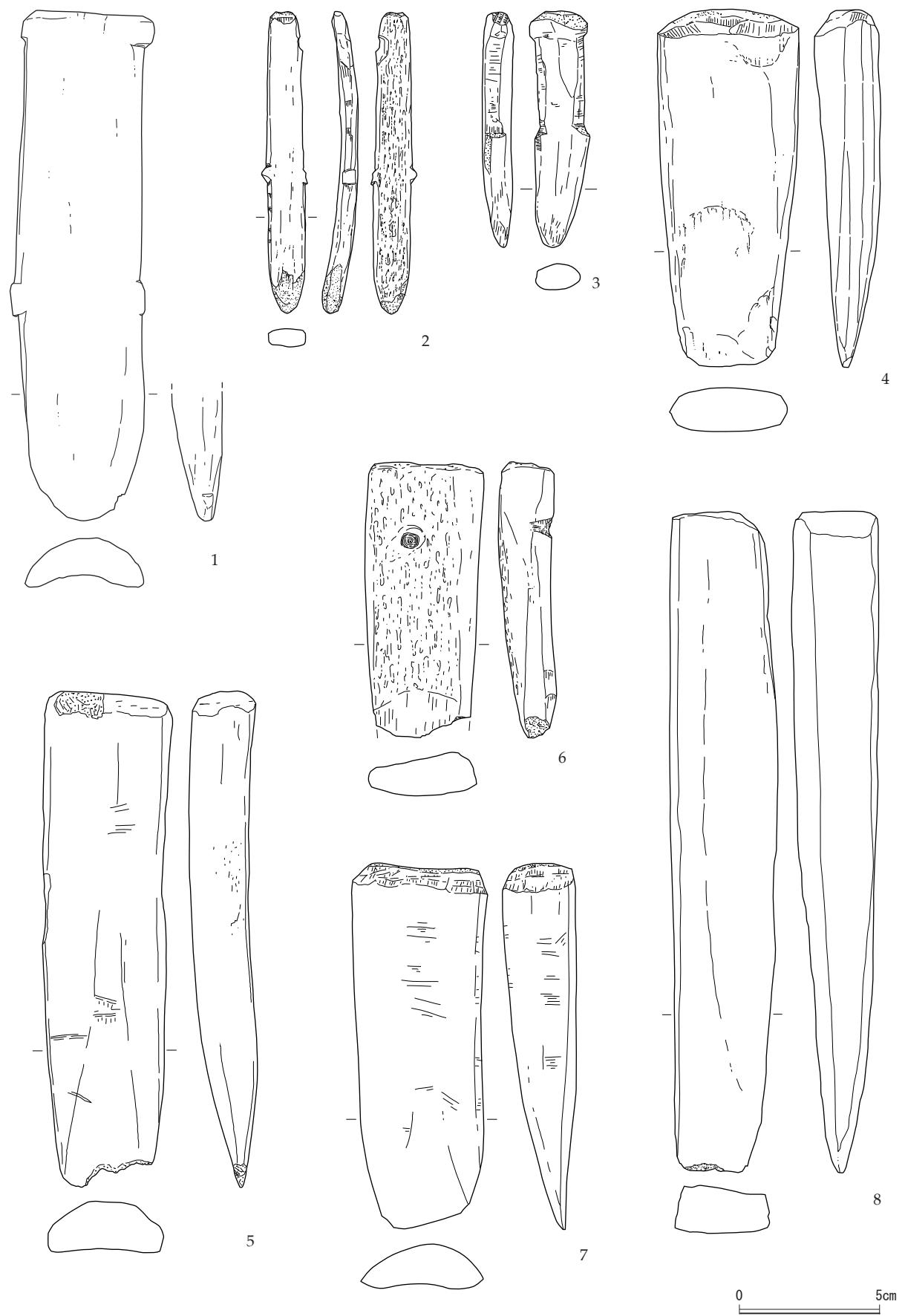
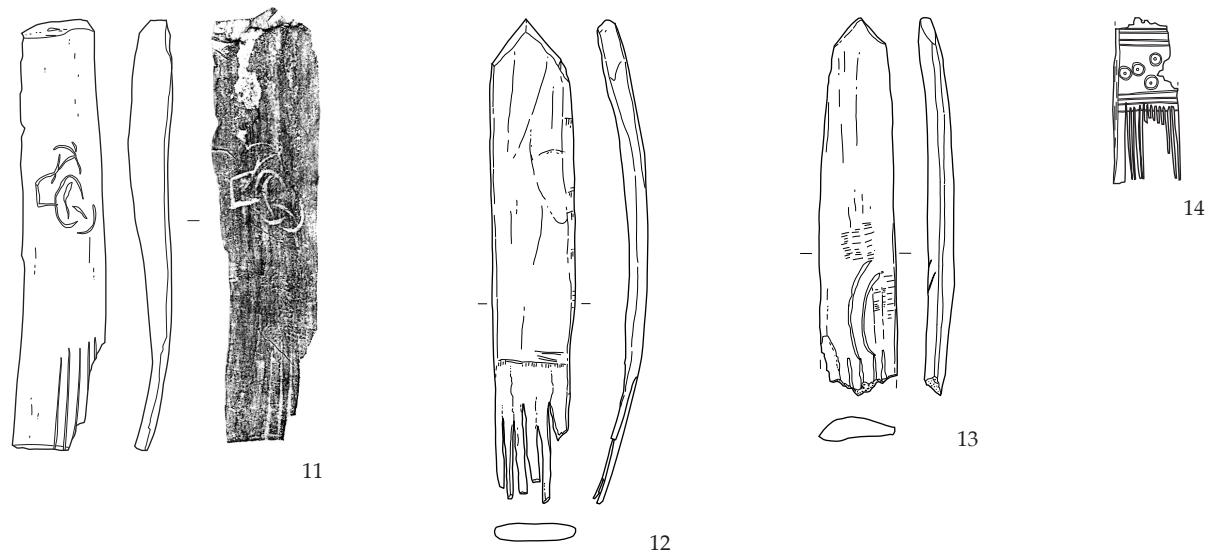
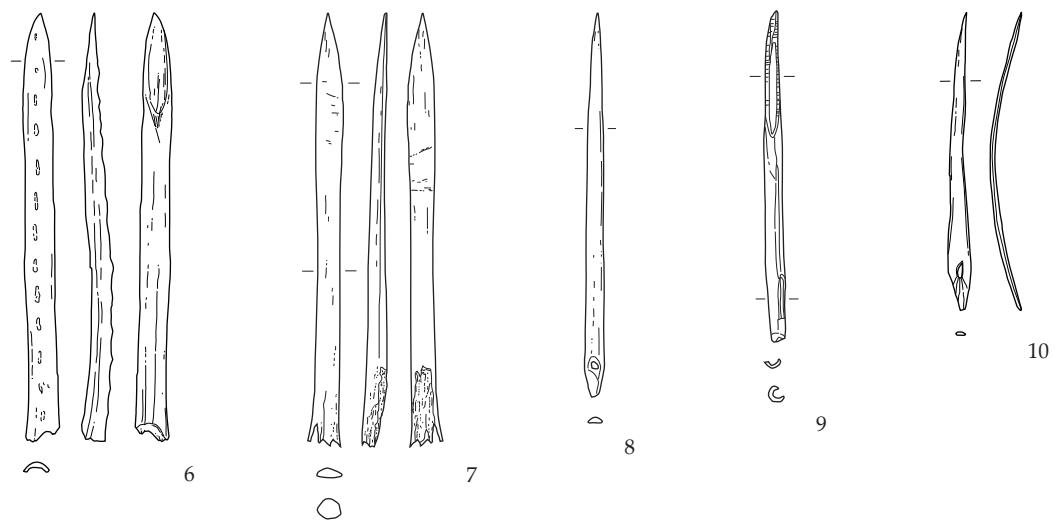
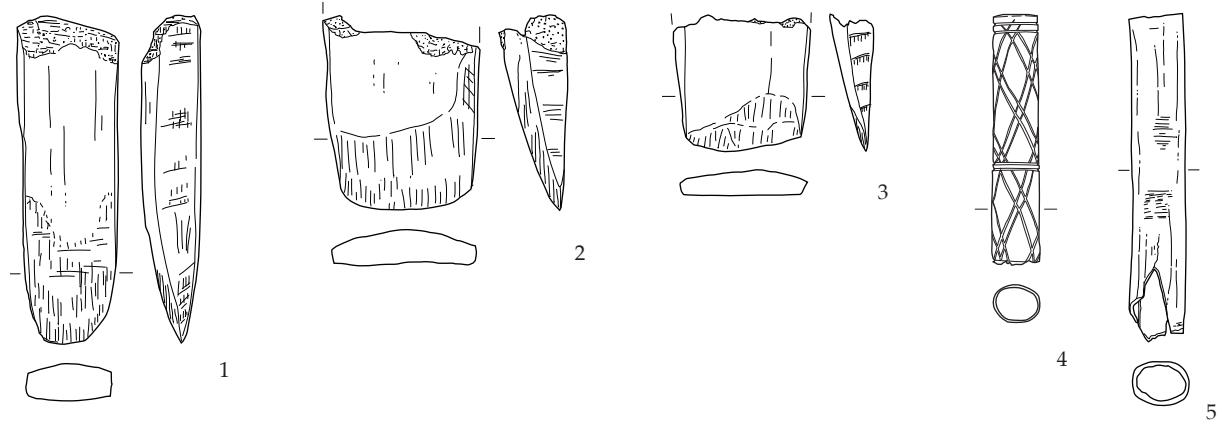


Figure 33: Bone tools (4) [1, 4: Lopatka I; 2, 3, 5-8: Andrianovka]



0 5cm

Figure 34: Bone tools (5) [1-3, 5, 6, 9, 10, 11-13: Andrianovka; 4, 7, 8, 14: Lopatka I]

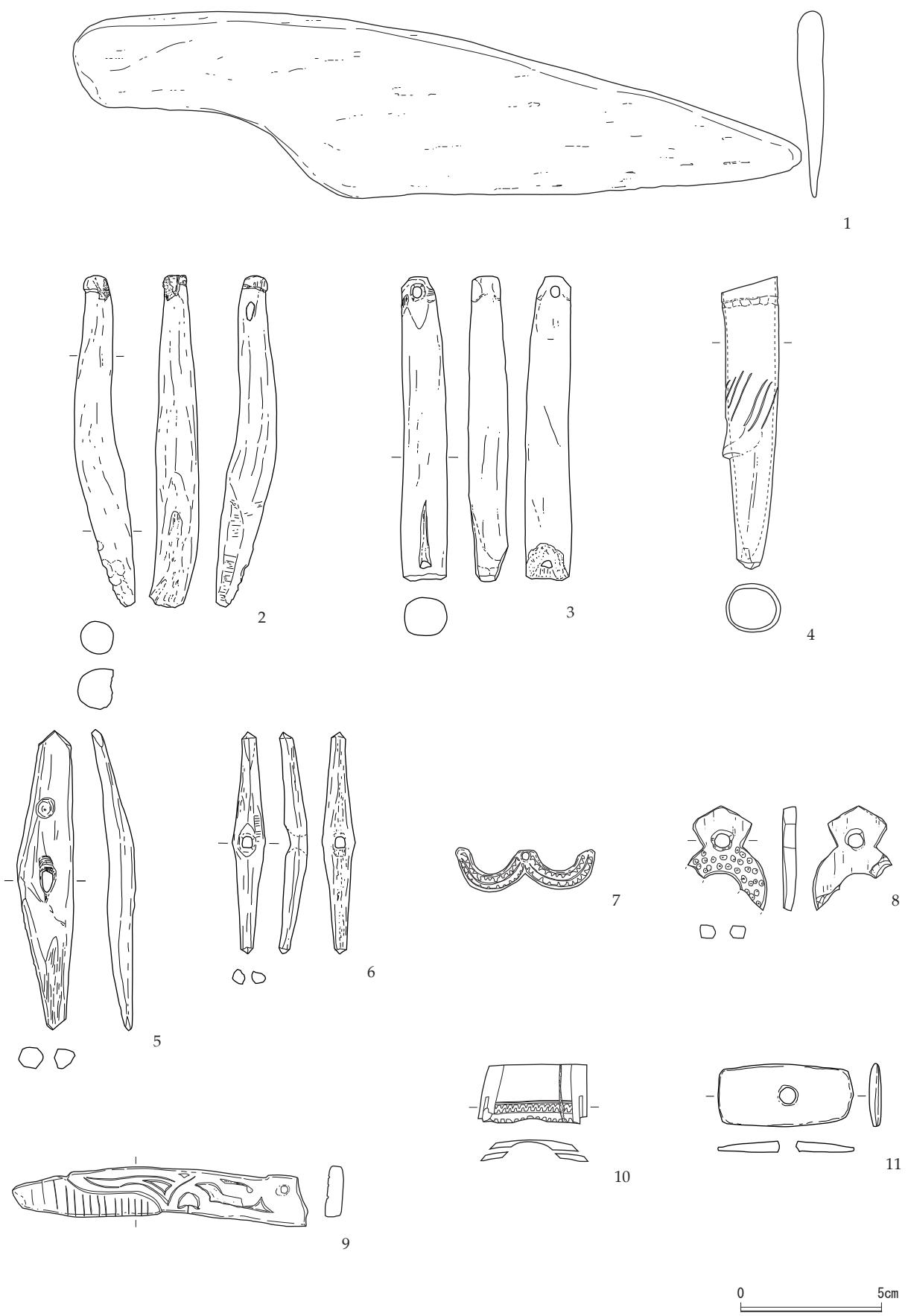


Figure 35: Bone tools (6) [1, 4, 6-10: Lopatka I; 2-5, 9, 11: Andrianovka]

Chapter 6. Other tools and exhibited artifacts

The collection contains small number of other kinds of artifacts such as wooden, metal, and glass tools as well. In addition, some artifacts are currently exhibited in the museum of archaeology and ethnology at NEISRI. In this chapter, we provide basic information on them because they are part of Dikova collection as well. Note that these artifacts in the exhibition are not included in tables and information in appendix of this catalogue.

Wooden tool (Fig.29.4): Although wooden tool is rare in the collection, a wooden float from the Lopatka I site is included. It has a spindle-shaped body with two grooves on both ends, and the cross section of the body exhibits D-shaped. The length is approximately 18 cm. Its age is unknown.

Metal tool: A metal thimble was recovered from the Lopatka I site. This material is illustrated in Plate 19.5 in Dikova's book (Dikova 1983).

Glass bead (Figs.36-38): Twenty glass beads are found in the collection (Tab.7). There are variations in size, shape, and color; chemical analysis would provide useful information to reveal the origin and manufacturing technique in the future.

Exhibited artifacts (Figs.39-44): Two reconstructed individuals of Naiji pottery are exhibited (Figs.39 and 40). Another reconstructed clay pan is currently displayed in the Kamchatka State Unified Museum. This is a Naiji pottery from the Andrianovka site pictured in Figure 41 of Dikova's book (Dikova 1983). Thus, three reconstructed clay pans are included in

the collection. They all have projections on the rim, large inner lugs, and the thick walls, indicating that they are type II Naiji pottery dated to a period from the late 17th century to the beginning of the 19th century (Takase 2013a).

Five bone tools in the exhibition are a harpoon head, a foreshaft, two bone arrowheads, and a needle from archaeological sites in the Cape Lopatka (Fig.41). A harpoon head with semi-closed socket has a commonality with materials of the Ainu in Hokkaido, which indicates that this exhibited specimen belongs to the Nalychevo Culture. Although Dikova examined larger number of elaborately made harpoon heads in her book (Dikova 1983), we could not find some materials in the current storage room. The problem of missing materials is mentioned again in Chapter 7.

Three stone adzes from sites in the Cape Lopatka (Fig.41) and stone figurines are also in the exhibition. Fig.42 shows two chipped materials dated to the Tarya Culture period that have been regarded as killer whale-shaped and whale-shaped figurines from the Avacha and the Lopatka I sites (Dikova 1983). Fig.43 pictures four anthropomorphic materials from the Avacha site assigned to the Tarya Culture (Dikova 1983). Obsidian and chert including flint are used for these materials.

In the exhibition, twenty labrets are displayed (Fig.44). Among them, there is a bone/tusk labret, while almost all of the artifacts are made of stone. They have been already published and examined by T. M. Dikova (1983).

(K. Takase)

Table 7: Glass beads in Dikova collection

	Lopatka I	Yavino	Yavino 2	Yavino 4	Total
Glass bead	10	2	4	4	20

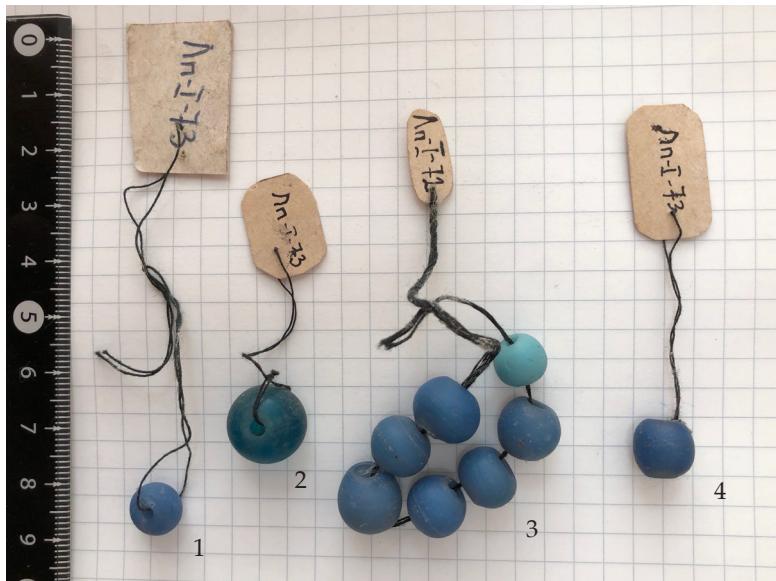


Figure 36: Glass beads from the Lopatka I site

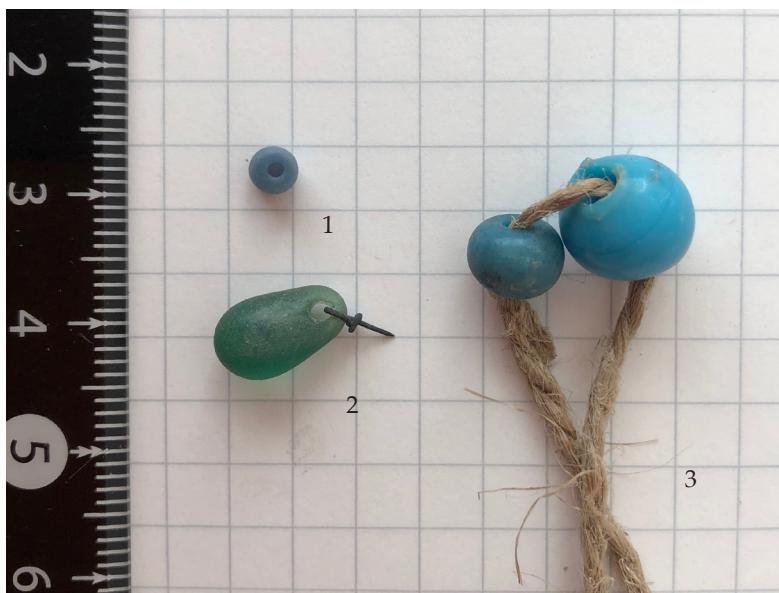


Figure 37: Glass beads from the Yavino sites (1, 2) and the Yavino 2 site (3)



Figure 38: Glass beads from the Yavino 2 site



Figure 39: Reconstructed Naiji pottery in the exhibition at NEISRI (1)



Figure 40: Reconstructed Naiji pottery in the exhibition at NEISRI (2)



Figure 41: Bone and stone tools in the exhibition at NEISRI



Figure 42: "Killer whale-shaped and whale-shaped chipped figurines" in the exhibition at NEISRI



Figure 43: Anthropomorphic chipped figurines in the exhibition at NEISRI



Figure 44: Labrets in the exhibition at NEISRI

Chapter 7. Characteristics and significance of the collection

Dikova collection (and part of Dikov collection) is the largest collection of archaeological materials from Southern Kamchatka. They were formed by investigations intensively conducted mainly in the 1970s. Although a lot of heavy stone tools and large bones are included in the collection, possibly almost all of the excavated materials were brought from Kamchatka to Magadan. This is the reason why a number of simple flakes characterize this collection, while other researchers occasionally select only diagnostic artifacts due to transportation constraints in Kamchatka. Using helicopters and aircrafts enabled them to remove restrict conditions for carrying a huge amount of heavy artifacts every year. This means that Dikova collection is suitable for basic researches such as tool composition and reconstructing lithic technology in each sites.

As stated in Chapter 2, this catalogue does not necessarily cover all materials of Dikova collection. Information on archaeofaunal remains will be unveiled in our another paper in process. In addition, we did not include the most part of stone tools from the Avacha site in this catalogue because our current research project focuses on the Nalychevo Culture. Furthermore, there are some artifacts that we could not find in the current collection, although they are introduced in Dikova's monograph (Dikova 1983). For example, some harpoon heads from the Andrianovka site shown in Plate 26 illustrated by Dikova (1983) were not included in this catalogue because we could not confirm the existence of these materials.

Moreover, there are other artifacts that must be in the storage room but we cannot find. When Katsunori Takase conducted the preliminary survey on this collection in 2011, he observed artifacts from the Nalychevo sites preserved in at least one wooden box. At that time, he created sketch drawings of ceramic fragments for future studies (Fig.45). However, these artifacts could not be seen in the

storage room when he visited NEISRI again in 2014. Between these periods, archaeological materials were moved from the previous storage room to the present storage room in the same building at NEISRI. This move probably caused a confusion of box location. Boxes of artifacts from the Nalychevo sites are expected to be found in the future.

As briefly mentioned in Chapter 3, a hypothesis on the Kuril Ainu's evacuation from a wide area of Southern Kamchatka to the southern tip of the peninsula caused around the beginnings of the 18th century was supported by Naiji pottery in Dikova and Dikov collections. A ceramic fragment shown in Fig.45.1 is also consistent with this recognition. The height of this clay vessel is approximately 11 cm, suggesting that it is relatively small clay pan. Unfortunately, inner lugs do not remain on this fragment, but a shallow and wide groove on the inner rim and the exterior surface covered by charred material suggest that this is a fragment of Naiji pottery. Generally, it is made elaborately and has the relatively thin wall. The short rim suggests that it has smaller inner lugs. These typological characteristics indicate that this is a fragment of type Ia or type Ib Naiji pottery.

On the contrary, chronological place of ceramic fragments shown in Fig.45.2 and 3 are still unknown. They are characterized by the relief decoration on the surface of clay vessels although the whole image of this ornamentation is poorly understood. Nevertheless, it is safe to say that they are not Naiji pottery fragments. Thus, there is type Ia or Ib Naiji pottery fragment, but no type II and III fragments from the Nalychevo sites. This result is consistent with ceramic fragments from the Nalychevo sites in other collections (e.g., Takase 2015). Therefore, temporal change in the distribution of Naiji pottery shown in Fig.19 is supported again by potsherds from the Nalychevo sites in Dikova collection.

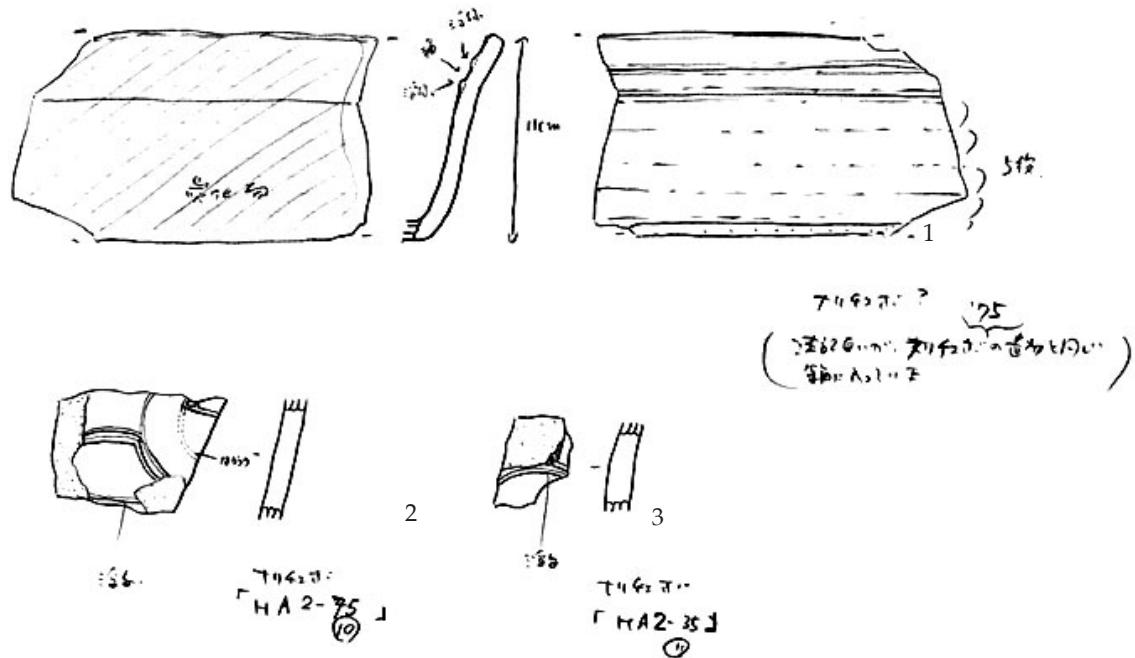


Figure 45: Sketch drawings of ceramic fragments by K. Takase created in 2011 [1: Nalychevo? (there is no label and marking on the material, but it was preserved in the same box as artifacts from the Nalychevo sites); 2, 3: Nalychevo 2 (1975)]

Although there are still problems mentioned above, Dikova collection is one of the most important materials for archaeology in Southern Kamchatka. Because Dikova's interest laid on the issue of Ainu occupation in Kamchatka, this collection is indispensable for archaeological study of the Nalychevo Culture. In particular, a number of Naiji pottery fragments has significant implications to understand the temporal change in the distribution area of the culture in Southern Kamchatka.

Excavations of pit houses and artifacts from these archaeological features are also the advantage of Dikova collection because the number of excavated pit house is still small in Kamchatka. As shown in Appendix II, information on site name and excavated year are recorded on labels attached to each artifact, but there is no detailed information on the provenance and level. Thus, close examinations of artifacts using information on pit house and level is hitherto difficult, unfortunately.

The age determination of stone tools in this collection is not easy, but Naiji pottery chronology and radiocarbon dating indicate that all materials are younger than ca.2,500 BP¹⁾. In addition, primary part

of the collection such as artifacts from the Lopatka and Yavino sites has a tendency to be younger than 1,600 BP. We believe that this collection is assigned to the Tarya Culture period and later, meaning that there is no Pleistocene and Early-Middle Holocene artifacts in the collection. Therefore, a huge number of retouched andesite pebbles should not be assigned to the Paleolithic as Dikova's idea (Dikova 1983). They are possibly cores dated to the Tarya Culture period and later.

Examining various andesite tools reveals the characteristic of technological sequence. Prehistoric people select handy andesite pebbles on the coast or near the mouth of rivers, and they divide them into several pieces using the regular knapping or the bipolar technique. And then, they produce informal flakes by chipping divided pebbles centripetally (Fig.23.13). In the case of thin pebbles, the natural surface are occasionally used as a platform without dividing raw materials. Flakes are modified into points, arrowheads, and various kinds of scrapers. Large scrapers (Fig.22.2-6) and axes (Fig.24.1 and 6) are made on selected relatively large flakes. Similar technique can be seen in the Northern Kurils Islands

especially in the Kurbatova Cape on Shumshu Island (Takase *et al.* 2017), suggesting that common technique is used for stone tool production using local raw materials.

In these regions, many cores found on the ground surface has been a mystery for a long time because the relationship between these cores and other tools have been unclear. However, these cores are traces of practical stone tool production using local materials. Although obsidian is certainly a preferable raw material of stone tools for prehistoric people in Kamchatka and the Northern Kurils, it is not suitable for making relatively large tools. Thus, obsidian tools account for approximately 22 % in the entire lithic component, while andesite tools account for 54 % (Tab.3).

Comparing to chipped stone tools, ground stone tools in Dikova collection had been poorly understood because the amount of information on these artifacts is not necessarily large in her articles and monograph. However, this catalogue reveals variation of ground stone tools such as adze, handstone, hummer, weight, and stone lamp. In particular, the fact that a wide variation of stone adzes is strongly related to the reduction process is important. Adzes are usually made of schist combining knapping and grinding techniques. When the edges are damaged during use, they are ground again to resharpen (Fig.24.3 and 13). Eventually, they are likely to have been used as wedging pieces (Fig.25.2-5).

As for bone tools, diagnostic specimens such as harpoon heads and ornaments were also reported in Dikova's book (Dikova 1983). However, wider composition of bone tools was first revealed by this catalogue. Especially, it is reasonable to emphasize the importance of bone arrowheads, needles, and wedging pieces as well as harpoon heads.

This book covers almost all artifacts of Dikova collection except for stone tools from the Avacha site. Although this collection has not yet been necessarily utilized in archaeological study in Kamchatka, we believe that this catalogue provides an opportunity for archaeologists to use it easily and contributes to the

development of archaeology in the North Pacific Rim.
(K. Takase)

Note

- 1) We will bring results of radiocarbon dating in other papers regarding faunal remains in the Dikova collection.

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Appendix

Appendix I: Box inventory of pottery

Box ID	Site name	Count of ceramic fragments	Count of illustrated ceramic fragments
2014-10	Lopatka I	3	1
2014-23	Lopatka I	40	5
2014-24	Siyushk 1&2	22	1
2014-25	Lopatka I	85	1
2014-25	Siyushk 1	4	4
2014-26	Andrianovka	27	4
2014-27	Yavino 4	18	3
2014-27	Yavino 7	11	1
2014-28	Kirpichnaya	52	3
2014-28	Unknown	1	1
2014-29	Yavino 4	11	2
2014-30	Andrianovka	9	0
2014-31	Lopatka I	1	1
2014-32	Yavino 3	70	5
2014-33	Yavino 4	20	2
2014-34	Yavino 2	1	1
2014-34	Yavino 4	42	11
2014-35	Andrianovka	48	2
2014-36	Andrianovka	30	0
2014-37	Andrianovka	201	1
2014-38	Andrianovka	280	6
2014-39	Andrianovka	45	1
2014-40	Andrianovka	45	6
2014-41	Andrianovka	39	1
2014-42	Andrianovka	158	8
2014-43	Andrianovka	230	1
2014-44	Andrianovka	114	16
2014-45	Andrianovka	30	1
2014-52	Lopatka I	47	1

Appendix II: Box inventory of stone tools

Box ID	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-1	1	Lopatka II			Surface collection	Core	Andesite	3
S-1	1	Lopatka II				Hummer	Andesite	2
S-1	1	Lopatka II				Handstone	Andesite	1
S-1	2	Lopatka II				Flake	Andesite	14
S-1	2	Lopatka II				Core	Andesite	10
S-1	2	Lopatka II			Retouched flake	Andesite	1	
S-1	2	Lopatka II				Core	Chert	1
S-1	2	Lopatka II				Flake	Chert	2
S-3	1	Yavino 1	1977			Core	Andesite	3
S-3	1	Yavino 1	1977			Core	Chert	1
S-3	1	Yavino 1	1977		Hummer	Andesite	1	
S-7	1	Lopatka IV	1973			Core	Andesite	4
S-7	1	Lopatka IV	1973			Pebble	Andesite	1
S-7	1	Lopatka IV	1973			Core	Chert	1
S-7	1	Lopatka IV	1973			Core	Andesite	3
S-7	1	Lopatka IV	1973			Flake	Andesite	6
S-7	2	Lopatka IV	1973			Flake	Schist	1
S-7	2	Lopatka IV	1973			Core	Chert	1
S-7	3	Lopatka IV	1973			Flake	Andesite	16
S-7	3	Lopatka IV	1973			Core	Andesite	4
S-7	3	Lopatka IV	1973		Pebble	Petrified wood	2	
S-7	3	Lopatka IV	1973		Hummer	Andesite	1	
S-7	4	Lopatka	1972			Flake	Andesite	10
S-7	4	Lopatka	1972			Core	Andesite	2
S-8	1	Lopatka II-III	1973	2-A-3		Flake	Schist	6
S-8	1	Lopatka II-III	1973	2-A-3		Core	Schist	3
S-8	1	Lopatka II-III	1973	2-A-3		Pebble	Chert	1
S-8	1	Lopatka II-III	1973	2-A-3		Core	Andesite	2
S-8	1	Lopatka II-III	1973	2-A-3		Flake	Andesite	114
S-8	1	Lopatka II-III	1973	2-A-3		Flake	Chert	3
S-8	1	Lopatka II-III	1973	2-A-3		Flake	Chalcedony	1
S-8	2	Lopatka II-III	1973	2-B-6		Flake	Andesite	22
S-8	2	Lopatka II-III	1973	2-B-6		Core	Andesite	2
S-8	2	Lopatka II-III	1973	2-B-6		Flake	Schist	1
S-8	3	Lopatka II-III	1973	2-B-5		Flake	Andesite	21
S-8	3	Lopatka II-III	1973	2-B-5		Core	Andesite	2
S-8	3	Lopatka II-III	1973	2-B-5		Flake	Chert	3
S-8	3	Lopatka II-III	1973	2-B-5		Core	Chert	3
S-8	3	Lopatka II-III	1973	2-B-5		Flake	Schist	1
S-8	3	Lopatka II-III	1973	2-B-5		Point	Andesite	1
S-8	4	Lopatka II-III	1973	2-B-1		Flake	Andesite	30
S-8	4	Lopatka II-III	1973	2-B-1		Core	Andesite	3
S-8	4	Lopatka II-III	1973	2-B-1		Core	Chalcedony	2
S-8	4	Lopatka II-III	1973	2-B-1		Core	Chert	1
S-8	4	Lopatka II-III	1973	2-B-1		Flake	Schist	2
S-8	4	Lopatka II-III	1973	2-B-1		Point	Obsidian	1
S-8	5	Lopatka II-III	1973	2-B-6	Hummer	Andesite	1	
S-8	5	Lopatka II-III	1973	2-B-6		Flake	Andesite	34
S-8	5	Lopatka II-III	1973	2-B-6		Core	Chert	1
S-8	6	Lopatka II-III	1973	2-B-3		Flake	Andesite	70
S-8	6	Lopatka II-III	1973	2-B-3		Core	Andesite	1
S-8	6	Lopatka II-III	1973	2-B-3		Core	Chalcedony	1
S-8	6	Lopatka II-III	1973	2-B-3		Core	Chert	2
S-8	6	Lopatka II-III	1973	2-B-3		Flake	Chert	2
S-8	7	Lopatka II-III	1973	1-B-4		Flake	Andesite	38
S-8	7	Lopatka II-III	1973	1-B-4		Core	Andesite	1
S-8	7	Lopatka II-III	1973	1-B-4		Flake	Chert	9
S-8	8	Lopatka II-III	1973	1-B-4		Flake	Schist	1
S-8	8	Lopatka II-III	1973	2-B-8		Flake	Andesite	2

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-8	8	Lopatka II-III	1973	2-B-8		Core	Andesite	1
S-11	1	Lopatka II	1973	1-A-5		Flake	Andesite	30
S-11	1	Lopatka II	1973	1-A-5		Core	Andesite	3
S-11	2	Lopatka II	1973	1-B-5		Flake	Andesite	72
S-11	2	Lopatka II	1973	1-B-5		Core	Andesite	2
S-11	2	Lopatka II	1973	1-B-5		Flake	Chert	1
S-11	2	Lopatka II	1973	1-B-5	Retouched flake	Obsidian	1	
S-11	3	Lopatka II	1973	1-B-5		Flake	Andesite	45
S-11	3	Lopatka II	1973	1-B-5		Core	Andesite	1
S-11	3	Lopatka II	1973	1-B-5		Core	Chalcedony	1
S-11	3	Lopatka II	1973	1-B-5		Flake	Shale	1
S-11	4	Lopatka II	1973	1-B-5		Pebble	Andesite	3
S-11	5	Lopatka II	1973	1-B-2		Flake	Andesite	19
S-11	5	Lopatka II	1973	1-B-2		Core	Andesite	4
S-11	5	Lopatka II	1973	1-B-2		Core	Chalcedony	1
S-11	5	Lopatka II	1973	1-B-2		Pebble	Andesite	13
S-11	5	Lopatka II	1973	1-B-2		Pebble	Chert	1
S-11	6	Lopatka II	1973	1-B-5		Pebble	Andesite	3
S-11	6	Lopatka II	1973	1-B-5		Pebble	Chert	1
S-11	6	Lopatka II	1973	1-B-5		Core	Andesite	1
S-11	7	Lopatka II	1973	1-B-1		Flake	Andesite	42
S-11	7	Lopatka II	1973	1-B-1		Core	Andesite	6
S-11	7	Lopatka II	1973	1-B-1		Flake	Shale	1
S-11	7	Lopatka II	1973	1-B-1		Flake	Chalcedony	1
S-11	7	Lopatka II	1973	1-B-1		Pebble	Andesite	1
S-11	7	Lopatka II	1973	1-B-1		Flake	Chert	2
S-12	1	Lopatka II-III	1973	2-B-3		Core	Andesite	8
S-12	1	Lopatka II-III	1973	2-B-3		Flake	Andesite	73
S-12	1	Lopatka II-III	1973	2-B-3		Flake	Chalcedony	7
S-12	1	Lopatka II-III	1973	2-B-3		Pebble	Chert	2
S-12	1	Lopatka II-III	1973	2-B-3	Retouched flake	Obsidian	1	
S-12	1	Lopatka II-III	1973	2-B-3		Flake	Chert	3
S-12	2	Lopatka II-III	1973	2-B-5		Flake	Andesite	14
S-12	2	Lopatka II-III	1973	2-B-5		Core	Andesite	3
S-12	2	Lopatka II-III	1973	2-B-5		Core	Chert	1
S-12	2	Lopatka II-III	1973	2-B-5		Flake	Chert	3
S-12	2	Lopatka II-III	1973	2-B-5		Core	Chalcedony	1
S-12	3	Lopatka II-III	1973	2-E-3		Flake	Andesite	31
S-12	3	Lopatka II-III	1973	2-E-3		Core	Andesite	2
S-12	3	Lopatka II-III	1973	2-E-3		Core	Schist	1
S-12	3	Lopatka II-III	1973	2-E-3		Flake	Chert	2
S-12	3	Lopatka II-III	1973	2-E-3		Flake	Schist	1
S-12	4	Lopatka II-III	1973	2-B-2		Flake	Andesite	141
S-12	4	Lopatka II-III	1973	2-B-2		Core	Andesite	3
S-12	4	Lopatka II-III	1973	2-B-2		Pebble	Chert	1
S-12	4	Lopatka II-III	1973	2-B-2		Flake	Obsidian	1
S-12	4	Lopatka II-III	1973	2-B-2		Flake	Chert	3
S-12	5	Lopatka II-III	1973	2-B-6		Flake	Andesite	16
S-12	5	Lopatka II-III	1973	2-B-6		Core	Andesite	1
S-12	5	Lopatka II-III	1973	2-B-6		Flake	Chert	6
S-12	5	Lopatka II-III	1973	2-B-6		Pebble	Andesite	1
S-12	6	Lopatka II-III	1973	2-B-7		Flake	Andesite	15
S-12	6	Lopatka II-III	1973	2-B-7		Core	Andesite	4
S-12	6	Lopatka II-III	1973	2-B-7		Flake	Chert	1
S-12	7	Lopatka II-III	1973	2-B-1		Flake	Andesite	68
S-12	7	Lopatka II-III	1973	2-B-1		Core	Andesite	4
S-12	7	Lopatka II-III	1973	2-B-1		Core	Chert	1
S-12	7	Lopatka II-III	1973	2-B-1		Flake	Chert	4
S-12	7	Lopatka II-III	1973	2-B-1		Flake	Chalcedony	2
S-12	8	Lopatka II-III	1973	2-B-6		Flake	Andesite	17
S-12	8	Lopatka II-III	1973	2-B-6		Core	Andesite	2
S-12	8	Lopatka II-III	1973	2-B-6		Core	Chert	1
S-12	9	Lopatka II-III	1973	2-Γ-4		Flake	Andesite	83

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-12	9	Lopatka II-III	1973	2-Г-4		Core	Chert	4
S-12	9	Lopatka II-III	1973	2-Г-4		Flake	Chert	22
S-12	9	Lopatka II-III	1973	2-Г-4		Flake	Schist	11
S-14	1	Lopatka IV	1973	Г-2		Core	Andesite	2
S-14	1	Lopatka IV	1973	Г-2		Retouched flake	Andesite	3
S-14	1	Lopatka IV	1973	Г-2		Core	Chert	1
S-14	1	Lopatka IV	1973	Г-2		Adze	Schist	4
S-14	1	Lopatka IV	1973	Г-2		Stemmed scraper	Andesite	3
S-14	2	Lopatka IV	1973			Core	Andesite	10
S-14	2	Lopatka IV	1973			Flake	Andesite	2
S-14	2	Lopatka IV	1973			Retouched flake	Andesite	5
S-14	2	Lopatka IV	1973			End scraper	Obsidian	1
S-14	2	Lopatka IV	1973			End scraper	Chalcedony	1
S-14	2	Lopatka IV	1973			End scraper	Shale	1
S-14	2	Lopatka IV	1973			End scraper	Chert	2
S-14	2	Lopatka IV	1973			Retouched flake	Chert	2
S-16	1	Lopatka IV	1973	O-12		Flake	Andesite	72
S-16	1	Lopatka IV	1973	O-12		Core	Andesite	7
S-16	1	Lopatka IV	1973	O-12		Flake	Chert	1
S-16	1	Lopatka IV	1973	O-12		Flake	Chalcedony	1
S-16	1	Lopatka IV	1973	O-12		Pebble	Pumice	1
S-16	2	Lopatka IV	1973	B-1		Flake	Andesite	18
S-16	2	Lopatka IV	1973	B-1		Core	Andesite	4
S-16	2	Lopatka IV	1973	B-1		Retouched flake	Andesite	2
S-16	2	Lopatka IV	1973	B-1		Core	Chert	2
S-16	2	Lopatka IV	1973	B-1		Flake	Chert	4
S-16	3	Lopatka IV	1973	B-11		Flake	Andesite	14
S-16	3	Lopatka IV	1973	B-11		Core	Andesite	5
S-16	3	Lopatka IV	1973	B-11		Retouched flake	Andesite	1
S-16	3	Lopatka IV	1973	B-11		Core	Chert	1
S-16	3	Lopatka IV	1973	B-11		Flake	Chert	4
S-16	3	Lopatka IV	1973	B-11		Core	Chalcedony	1
S-16	4	Lopatka IV	1973	O-12		Pebble	Pumice	1
S-16	5	Lopatka IV	1973			Core	Andesite	1
S-16	5	Lopatka IV	1973			Flake	Andesite	2
S-16	6	Lopatka IV	1973	H		Flake	Andesite	14
S-16	6	Lopatka IV	1973	H		Flake	Chert	1
S-16	7	Lopatka IV	1973	B-11		Core	Andesite	5
S-16	7	Lopatka IV	1973	B-11		Flake	Andesite	2
S-16	8	Lopatka IV	1973	B-7		Flake	Andesite	4
S-16	8	Lopatka IV	1973	B-7		Core	Andesite	2
S-16	8	Lopatka IV	1973	B-7		Retouched flake	Andesite	2
S-16	8	Lopatka IV	1973	B-7		Flake	Chert	1
S-16	9	Lopatka IV	1973	M-10		Flake	Andesite	3
S-16	9	Lopatka IV	1973	M-10		Core	Andesite	2
S-16	9	Lopatka IV	1973	M-10		Flake	Chert	1
S-16	10	Lopatka IV	1973	E-8		Flake	Andesite	1
S-16	11	Lopatka IV	1973	Л-9		Flake	Andesite	3
S-16	11	Lopatka IV	1973	Л-9		Core	Andesite	3
S-16	11	Lopatka IV	1973	Л-9		Core	Chert	1
S-16	11	Lopatka IV	1973	Л-9		Flake	Chert	1
S-17	1	Lopatka IV	1973	A-5		Core	Andesite	1
S-17	1	Lopatka IV	1973	A-5		Flake	Chert	1
S-17	2	Lopatka IV	1973	Ж-5		Core	Andesite	3
S-17	2	Lopatka IV	1973	Ж-5		Flake	Andesite	2
S-17	2	Lopatka IV	1973	Ж-5		Flake	Chalcedony	1
S-17	2	Lopatka IV	1973	Ж-5		Retouched flake	Obsidian	1
S-17	3	Lopatka IV	1973	B-2		Flake	Andesite	5
S-17	3	Lopatka IV	1973	B-2		Flake	Chert	1
S-17	4	Lopatka IV	1973	H-1		Core	Andesite	3
S-17	5	Lopatka IV	1973	K-1		Core	Andesite	1
S-17	6	Lopatka IV	1973	Д-1		Flake	Andesite	4
S-17	6	Lopatka IV	1973	Д-1		Core	Chert	1

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-17	6	Lopatka IV	1973	A-1		Flake	Chert	1
S-17	7	Lopatka IV	1973	A-5		Flake	Andesite	1
S-17	7	Lopatka IV	1973	A-5		Core	Andesite	1
S-17	8	Lopatka IV	1973	A-8		Core	Andesite	1
S-17	9	Lopatka IV	1973	A-3		Core	Andesite	1
S-17	9	Lopatka IV	1973	A-3		Flake	Andesite	1
S-17	10	Lopatka IV	1973	3-8		Flake	Andesite	51
S-17	10	Lopatka IV	1973	3-8		Core	Chalcedony	1
S-17	10	Lopatka IV	1973	3-8		Flake	Chert	5
S-17	11	Lopatka IV	1973	I-1		Flake	Andesite	2
S-17	11	Lopatka IV	1973	I-1		Core	Andesite	2
S-17	12	Lopatka IV	1973	B-4		Flake	Andesite	4
S-17	12	Lopatka IV	1973	B-4		Core	Andesite	1
S-17	12	Lopatka IV	1973	B-4		Point	Andesite	1
S-17	13	Lopatka IV	1973	A-9		point	Andesite	1
S-17	13	Lopatka IV	1973	A-9		Retouched flake	Andesite	1
S-17	14	Lopatka IV	1973	I-7		Core	Andesite	1
S-17	14	Lopatka IV	1973	I-7		Retouched flake	Andesite	1
S-18	1	Lopatka IV	1973		Surface collection	Core	Andesite	12
S-18	1	Lopatka IV	1973		Surface collection	Flake	Andesite	9
S-18	1	Lopatka IV	1973		Surface collection	Flake	Chert	2
S-18	1	Lopatka IV	1973		Surface collection	Arrowhead	Obsidian	1
S-18	2	Lopatka IV	1973		Surface collection	Core	Andesite	1
S-18	2	Lopatka IV	1973		Surface collection	Retouched flake	Andesite	5
S-18	2	Lopatka IV	1973		Surface collection	Retouched flake	Obsidian	5
S-18	3	Lopatka IV	1973		Surface collection	Core	Andesite	12
S-18	3	Lopatka IV	1973		Surface collection	Flake	Andesite	1
S-18	4	Lopatka IV	1973		Surface collection	Flake	Andesite	5
S-18	4	Lopatka IV	1973		Surface collection	Retouched flake	Andesite	2
S-18	4	Lopatka IV	1973		Surface collection	Flake	Chert	1
S-18	4	Lopatka IV	1973		Surface collection	Retouched flake	Chert	2
S-18	4	Lopatka IV	1973		Surface collection	Point	Andesite	2
S-18	5	Lopatka IV	1973		Surface collection	Core	Andesite	2
S-18	5	Lopatka IV	1973		Surface collection	Flake	Andesite	2
S-18	5	Lopatka IV	1973		Surface collection	Flake	Chert	1
S-18	6	Lopatka IV	1973		Surface collection	Flake	Andesite	1
S-18	7	Lopatka IV	1973		Surface collection	Flake	Andesite	9

Box ID	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-18	7	Lopatka IV	1973		Surface collection	Core	Andesite	3
S-18	7	Lopatka IV	1973		Surface collection	Retouched flake	Andesite	1
S-18	7	Lopatka IV	1973		Surface collection	Flake	Chert	5
S-18	7	Lopatka IV	1973		Surface collection	Flake	Chalcedony	1
S-18	7	Lopatka IV	1973		Surface collection	Retouched flake	Obsidian	1
S-19	1	Lopatka IV	1973		Surface collection	Flake	Andesite	5
S-19	1	Lopatka IV	1973		Surface collection	Core	Andesite	10
S-19	1	Lopatka IV	1973		Surface collection	Flake	Chert	4
S-19	2	Lopatka IV	1973			Retouched flake	Andesite	18
S-19	2	Lopatka IV	1973			Retouched flake	Obsidian	4
S-19	2	Lopatka IV	1973			Point	Obsidian	2
S-19	3	Lopatka IV	1973			Core	Andesite	3
S-19	3	Lopatka IV	1973			Retouched flake	Andesite	8
S-19	3	Lopatka IV	1973			Retouched flake	Chert	1
S-19	3	Lopatka IV	1973			End scraper	Andesite	1
S-19	4	Lopatka IV	1973		Surface collection	Flake	Andesite	35
S-19	4	Lopatka IV	1973		Surface collection	Retouched flake	Andesite	2
S-19	4	Lopatka IV	1973		Surface collection	Flake	Chert	27
S-19	4	Lopatka IV	1973			Flake	Chalcedony	3
S-19	4	Lopatka IV	1973			Chip	Chalcedony	1
S-19	4	Lopatka IV	1973			Core	Chalcedony	1
S-19	4	Lopatka IV	1973			Core	Chalcedony	5
S-19	4	Lopatka IV	1973			Utilized flake	Obsidian	1
S-19	4	Lopatka IV	1973			Retouched flake	Obsidian	2
S-19	4	Lopatka IV	1973			Arrowhead	Obsidian	1
S-19	5	Lopatka IV	1973			Core	Andesite	7
S-19	5	Lopatka IV	1973			Flake	Andesite	6
S-19	5	Lopatka IV	1973			Retouched flake	Andesite	2
S-19	5	Lopatka IV	1973			Flake	Chert	3
S-19	5	Lopatka IV	1973			Flake	Obsidian	3
S-19	5	Lopatka IV	1973			Flake	Chalcedony	2
S-19	6	Lopatka IV	1973			Core	Andesite	12
S-19	6	Lopatka IV	1973			Flake	Andesite	8
S-19	6	Lopatka IV	1973			Retouched flake	Andesite	1
S-19	6	Lopatka IV	1973			Pebble	Chalcedony	1
S-19	6	Lopatka IV	1973			Pebble	Chert	1
S-19	6	Lopatka IV	1973			Flake	Chert	3
S-19	6	Lopatka IV	1973			Flake	Obsidian	1
S-19	7	Lopatka IV	1973			Flake	Chert	2
S-19	7	Lopatka IV	1973			Retouched flake	Obsidian	1
S-19	7	Lopatka IV	1973			Retouched flake	Chert	1
S-19	7	Lopatka IV	1973			Retouched flake	Andesite	1
S-20	1	Kuril Lake road	1977			Flake	Chert	12
S-20	1	Kuril Lake road	1977			Flake	Obsidian	7
S-20	1	Kuril Lake road	1977			Flake	Chalcedony	15
S-20	1	Kuril Lake road	1977			Chip	Chert	2
S-20	1	Kuril Lake road	1977			Core	Chert	1
S-20	1	Kuril Lake road	1977			Retouched flake	Obsidian	1

Box ID	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-20	1	Kuril Lake road	1977			Retouched flake	Andesite	1
S-20	1	Kuril Lake road	1977			Chip	Chalcedony	1
S-20	2	Shestaya Rechka	1977			Flake	Andesite	10
S-20	2	Shestaya Rechka	1977			Flake	Obsidian	3
S-21	1	Lopatka II	1973			Core	Andesite	15
S-21	1	Lopatka II	1973			Flake	Andesite	5
S-21	1	Lopatka II	1973			Core	Chert	3
S-21	1	Lopatka II	1973			Core	Chalcedony	1
S-21	1	Lopatka II	1973			Pebble	Andesite	1
S-21	1	Lopatka II	1973			Hummer	Andesite	1
S-21	1	Lopatka II	1973			Retouched flake	Chert	2
S-21	1	Lopatka II	1973			Retouched flake	Andesite	1
S-21	1	Lopatka II	1973			Flake	Obsidian	2
S-22	1	Siyushk 2	1972			Adze	Andesite	1
S-22	1	Lopatka I	1972			Stone lamp	Tuff	1
S-23	1	Lopatka IV	1973			Core	Chert	2
S-23	1	Lopatka IV	1973			Flake	Chert	4
S-23	1	Lopatka IV	1973			Flake	Andesite	4
S-23	2	Lopatka IV	1973			Flake	Andesite	49
S-23	2	Lopatka IV	1973			Core	Andesite	5
S-23	2	Lopatka IV	1973			Core	Chert	1
S-23	2	Lopatka IV	1973			Flake	Chert	4
S-23	3	Lopatka IV	1973			Flake	Andesite	35
S-23	3	Lopatka IV	1973			Core	Chert	3
S-23	3	Lopatka IV	1973			Flake	Chert	10
S-23	4	Lopatka IV	1973			Flake	Andesite	25
S-23	4	Lopatka IV	1973			Core	Andesite	4
S-23	4	Lopatka IV	1973			Core	Schist	1
S-23	5	Lopatka IV	1973			Flake	Andesite	67
S-23	5	Lopatka IV	1973			Core	Andesite	3
S-23	5	Lopatka IV	1973			Retouched flake	Obsidian	1
S-23	6	Lopatka IV	1973			Flake	Andesite	9
S-23	6	Lopatka IV	1973			Core	Chalcedony	1
S-23	6	Lopatka IV	1973			Flake	Chert	4
S-23	7	Lopatka IV	1973			Flake	Andesite	21
S-23	7	Lopatka IV	1973			Core	Andesite	2
S-23	7	Lopatka IV	1973			Core	Chert	1
S-24	1	Lopatka IV	1973			Retouched flake	Andesite	3
S-24	1	Lopatka IV	1973			Retouched flake	Obsidian	2
S-24	1	Lopatka IV	1973			Flake	Andesite	108
S-24	1	Lopatka IV	1973			Core	Andesite	19
S-24	1	Lopatka IV	1973			Pebble	Andesite	1
S-24	1	Lopatka IV	1973			Flake	Obsidian	4
S-24	1	Lopatka IV	1973			Flake	Chert	29
S-24	1	Lopatka IV	1973			Core	Chert	15
S-24	1	Lopatka IV	1973			Flake	Chalcedony	3
S-24	1	Lopatka IV	1973			Core	Chalcedony	2
S-24	1	Lopatka IV	1973			Pebble	Chalcedony	2
S-25	1	Lopatka III	1973			Core	Andesite	15
S-25	1	Lopatka III	1973			Flake	Andesite	31
S-25	1	Lopatka III	1973			Retouched flake	Andesite	8
S-25	1	Lopatka III	1973			Flake	Obsidian	12
S-25	1	Lopatka III	1973			Retouched flake	Obsidian	2
S-25	1	Lopatka III	1973			Point	Obsidian	4
S-25	1	Lopatka III	1973			Core	Chert	1
S-25	1	Lopatka III	1973			Flake	Chert	1
S-25	1	Lopatka III	1973			Arrowhead	Obsidian	6
S-25	2	Lopatka III	1973			Flake	Obsidian	9
S-25	2	Lopatka III	1973			Point	Obsidian	2
S-25	2	Lopatka III	1973			Flake	Andesite	4
S-25	2	Lopatka III	1973			Flake	Chert	2
S-25	2	Lopatka III	1973			Flake	Chalcedony	1
S-25	3	Lopatka III	1973			Flake	Andesite	4

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-25	3	Lopatka III	1973			Core	Andesite	5
S-25	3	Lopatka III	1973			Flake	Chert	1
S-25	4	Lopatka III	1973			Flake	Obsidian	11
S-25	4	Lopatka III	1973			Flake	Chert	1
S-25	4	Lopatka III	1973			Retouched flake	Obsidian	5
S-25	4	Lopatka III	1973			Flake	Andesite	12
S-25	4	Lopatka III	1973			Core	Andesite	6
S-25	4	Lopatka III	1973			Retouched flake	Chert	1
S-25	4	Lopatka III	1973			Point	Obsidian	4
S-25	4	Lopatka III	1973			Arrowhead	Obsidian	1
S-25	5	Lopatka III	1973			Core	Andesite	15
S-25	5	Lopatka III	1973			Flake	Andesite	7
S-25	5	Lopatka III	1973			Core	Chert	1
S-25	5	Lopatka III	1973			Flake	Chert	1
S-25	5	Lopatka III	1973			Flake	Obsidian	16
S-26	1	Kirpichnaya	1962			Flake	Shale	30
S-26	1	Kirpichnaya	1962			Flake	Chalcedony	62
S-26	1	Kirpichnaya	1962			Flake	Obsidian	48
S-26	1	Kirpichnaya	1962			Flake	Chert	5
S-26	1	Kirpichnaya	1962			Retouched flake	Chert	1
S-26	1	Kirpichnaya	1962			Stemmed scraper	Chert	1
S-26	1	Kirpichnaya	1962			Retouched flake	Chalcedony	3
S-26	1	Kirpichnaya	1962			Core	Chalcedony	1
S-26	1	Kirpichnaya	1962			Pebble	Chalcedony	1
S-26	1	Kirpichnaya	1962			Adze	Schist	1
S-26	1	Kirpichnaya	1962			Point	Obsidian	3
S-26	1	Kirpichnaya	1962			Retouched flake	Obsidian	3
S-26	2	Kirpichnaya	1962			Flake	Obsidian	10
S-26	2	Kirpichnaya	1962			Flake	Chalcedony	12
S-26	2	Kirpichnaya	1962			Retouched flake	Obsidian	2
S-26	2	Kirpichnaya	1962			Drill	Obsidian	2
S-26	2	Kirpichnaya	1962			Adze	Tuff	1
S-26	2	Kirpichnaya	1962			Flake	Chert	3
S-26	2	Kirpichnaya	1962			Core	Chalcedony	2
S-26	3	Kirpichnaya	1962			Adze	Schist	1
S-26	4	Kirpichnaya	1962			Side scraper	Obsidian	1
S-26	4	Kirpichnaya	1962			Flake	Obsidian	1
S-26	4	Kirpichnaya	1962			Point	Obsidian	1
S-26	4	Kirpichnaya	1962			Stemmed scraper	Obsidian	1
S-26	4	Kirpichnaya	1962			Stemmed scraper	Chert	2
S-26	4	Kirpichnaya	1962			Flake	Chert	1
S-26	4	Kirpichnaya	1962			Flake	Andesite	2
S-26	4	Kirpichnaya	1962			Flake	Chalcedony	1
S-26	4	Kirpichnaya	1962			Core	Chalcedony	1
S-26	4	Kirpichnaya	1962			Adze	Schist	1
S-26	4	Kirpichnaya	1962			Core	Andesite	1
S-26	4	Kirpichnaya	1962			Retouched flake	Andesite	1
S-26	5	Kirpichnaya	1962			Flake	Obsidian	3
S-26	5	Kirpichnaya	1962			Utilized flake	Obsidian	1
S-26	5	Kirpichnaya	1962			Flake	Chert	1
S-26	5	Kirpichnaya	1962			Flake	Chalcedony	3
S-26	5	Kirpichnaya	1962			Retouched flake	Chalcedony	1
S-26	5	Kirpichnaya	1962			Retouched flake	Obsidian	4
S-26	5	Kirpichnaya	1962			Stemmed scraper	Chert	2
S-26	5	Kirpichnaya	1962			Stemmed scraper	Obsidian	3
S-26	5	Kirpichnaya	1962			End scraper	Obsidian	2
S-26	5	Kirpichnaya	1962			Point	Obsidian	4
S-26	6	Kirpichnaya	1962			Adze	Schist	3
S-26	7	Kirpichnaya	1962			Adze	Schist	1
S-26	7	Kirpichnaya	1962			Flake	Obsidian	5
S-26	7	Kirpichnaya	1962			End scraper	Obsidian	1
S-26	7	Kirpichnaya	1962			Core	Chert	1
S-26	7	Kirpichnaya	1962			Pebble	Andesite	1

Box	Sub-	Site name	Year	Unit	Level	Artifact class	Stone	Count
	ID							
S-26	8	Kirpichnaya	1962			Flake	Obsidian	2
S-26	8	Kirpichnaya	1962			Flake	Chalcedony	1
S-26	8	Kirpichnaya	1962			Stemmed scraper	Chert	1
S-26	8	Kirpichnaya	1962			Stemmed scraper	Chalcedony	1
S-26	8	Kirpichnaya	1962			Retouched flake	Chalcedony	1
S-26	8	Kirpichnaya	1962			Pebble	Schist	1
S-26	8	Kirpichnaya	1962			Core	Schist	1
S-26	9	Kirpichnaya	1962			Adze	Schist	1
S-27	1	Lopatka II-III	1973	2-E-7		Flake	Andesite	24
S-27	1	Lopatka II-III	1973	2-E-7		Core	Andesite	7
S-27	1	Lopatka II-III	1973	2-E-7		Pebble	Pumice	1
S-27	1	Lopatka II-III	1973	2-E-7		Core	Chalcedony	1
S-27	1	Lopatka II-III	1973	2-E-7		Flake	Obsidian	1
S-27	2	Lopatka II-III	1973	2-T-2		Flake	Andesite	75
S-27	2	Lopatka II-III	1973	2-T-2		Flake	Shale	1
S-27	2	Lopatka II-III	1973	2-T-2		Flake	Chalcedony	1
S-27	2	Lopatka II-III	1973	2-T-2		Core	Andesite	1
S-27	2	Lopatka II-III	1973	2-T-2		Flake	Chert	11
S-27	2	Lopatka II-III	1973	2-T-2		Core	Chert	1
S-27	2	Lopatka II-III	1973	2-T-2		Pebble	Pumice	1
S-27	3	Lopatka II-III	1973	2-B-2		Flake	Andesite	100
S-27	3	Lopatka II-III	1973	2-B-2		Core	Chert	2
S-27	3	Lopatka II-III	1973	2-B-2		Flake	Chert	17
S-27	3	Lopatka II-III	1973	2-B-2		Flake	Chalcedony	2
S-27	3	Lopatka II-III	1973	2-B-2		Core	Andesite	4
S-27	3	Lopatka II-III	1973	2-B-2		Pebble	Chert	1
S-27	3	Lopatka II-III	1973	2-B-2		Pebble	Pumice	1
S-27	4	Lopatka II-III	1973	2-B-3		Flake	Andesite	40
S-27	4	Lopatka II-III	1973	2-B-3		Core	Andesite	5
S-27	4	Lopatka II-III	1973	2-B-3		Core	Chalcedony	2
S-27	4	Lopatka II-III	1973	2-B-3		Core	Shale	1
S-27	4	Lopatka II-III	1973	2-B-3		Flake	Shale	1
S-27	4	Lopatka II-III	1973	2-B-3		Flake	Schist	3
S-27	4	Lopatka II-III	1973	2-B-3		Flake	Chert	1
S-29	1	Andrianovka	1973			Core	Chert	5
S-29	1	Andrianovka	1973			Core	Chalcedony	1
S-29	1	Andrianovka	1973			Core	Schist	2
S-29	1	Andrianovka	1973			Core	Andesite	1
S-29	1	Andrianovka	1973			Pebble	Andesite	1
S-29	1	Andrianovka	1973			Hummer	Andesite	1
S-29	1	Lopatka I	1973			Weight	Andesite	1
S-29	1	Andrianovka	1973			Grinding stone	Sandstone	1
S-29	1	Andrianovka	1973			End scraper	Obsidian	1
S-29	1	Lopatka II	1973			Stemmed scraper	Obsidian	1
S-30	1	Lopatka II	1973	1-A-4		Flake	Andesite	15
S-30	1	Lopatka II	1973	1-A-4		Core	Andesite	2
S-30	1	Lopatka II	1973	1-A-4		Flake	Chert	1
S-30	1	Lopatka II	1973	1-A-4		Pebble	Andesite	2
S-30	2	Lopatka IV	1973			Flake	Andesite	1
S-30	3	Lopatka II	1973	1-T-1		Core	Andesite	3
S-30	3	Lopatka II	1973	1-T-1		Flake	Andesite	52
S-30	3	Lopatka II	1973	1-T-1		Flake	Chert	2
S-30	4	Lopatka II	1973	1-A-3		Flake	Andesite	86
S-30	4	Lopatka II	1973	1-A-3		Core	Andesite	2
S-30	4	Lopatka II	1973	1-A-3		Retouched flake	Chert	1
S-30	4	Lopatka II	1973	1-A-3		Flake	Obsidian	1
S-30	4	Lopatka II	1973	1-A-3		Flake	Chert	3
S-30	5	Lopatka II	1973	1-A-3		Flake	Andesite	57
S-30	5	Lopatka II	1973	1-A-3		Flake	Chert	4
S-30	5	Lopatka II	1973	1-A-3		Core	Chalcedony	2
S-30	6	Lopatka II	1973	1-A-5		Flake	Andesite	19
S-30	6	Lopatka II	1973	1-A-5		Core	Andesite	3
S-30	6	Lopatka II	1973	1-A-5		Pebble	Andesite	1

Box	Sub-	Site name	Year	Unit	Level	Artifact class	Stone	Count
	ID							
S-30	7	Lopatka II	1973	I-B-2		Flake	Andesite	33
S-30	7	Lopatka II	1973	I-B-2		Pebble	Andesite	1
S-30	8	Lopatka II	1973	I-Г-1		Flake	Andesite	47
S-30	8	Lopatka II	1973	I-Г-1		Core	Andesite	1
S-30	8	Lopatka II	1973	I-Г-1		Flake	Chert	2
S-31	1	Lopatka II-III	1973	2-Д-4		Flake	Andesite	19
S-31	1	Lopatka II-III	1973	2-Д-4		Core	Andesite	1
S-31	1	Lopatka II-III	1973	2-Д-4		Flake	Chert	6
S-31	1	Lopatka II-III	1973	2-Д-4		Core	Siltstone	1
S-31	1	Lopatka II-III	1973	2-Д-4		Flake	Chalcedony	1
S-31	1	Lopatka II-III	1973	2-Д-4		Core	Shale	1
S-31	2	Lopatka II-III	1973	2-А-2		Flake	Andesite	10
S-31	3	Lopatka II-III	1973	2-Г-6		Core	Andesite	1
S-31	4	Lopatka II-III	1973	2-Г-8		Flake	Andesite	15
S-31	5	Lopatka II-III	1973	2-В-4		Flake	Andesite	55
S-31	5	Lopatka II-III	1973	2-В-4		Core	Andesite	1
S-31	5	Lopatka II-III	1973	2-В-4		Pebble	Chert	1
S-31	5	Lopatka II-III	1973	2-В-4		Flake	Chert	11
S-31	5	Lopatka II-III	1973	2-В-4		Core	Chert	5
S-31	6	Lopatka II-III	1973	2-Е-4		Core	Andesite	4
S-31	6	Lopatka II-III	1973	2-Е-4		Flake	Andesite	13
S-31	6	Lopatka II-III	1973	2-Е-4		Core	Chert	1
S-31	6	Lopatka II-III	1973	2-Е-4		Flake	Chert	11
S-31	7	Lopatka II-III	1973	2-К-6		Flake	Andesite	9
S-31	7	Lopatka II-III	1973	2-К-6		Core	Chert	1
S-31	8	Lopatka II-III	1973	2-А-7		Flake	Andesite	11
S-31	9	Lopatka II-III	1973	2-Г-1		Flake	Andesite	21
S-31	9	Lopatka II-III	1973	2-Г-1		Core	Andesite	2
S-31	10	Lopatka II-III	1973	2-Ж-4		Core	Andesite	1
S-31	10	Lopatka II-III	1973	2-Е-4		Core	Andesite	1
S-31	11	Lopatka II-III	1973	2-Д-8		Flake	Andesite	4
S-31	11	Lopatka II-III	1973	2-Д-8		Core	Andesite	2
S-31	11	Lopatka II-III	1973	2-Б-7		Flake	Andesite	15
S-31	11	Lopatka II-III	1973	2-Б-7		Flake	Chert	1
S-31	11	Lopatka II-III	1973	2-К-6		Flake	Andesite	5
S-31	11	Lopatka II-III	1973	2-К-6		Core	Andesite	1
S-32	1	Lopatka III	1972			Pebble	Siltstone	1
S-32	1	Lopatka III	1972			Flake	Shale	1
S-32	1	Lopatka III	1973			Hummer	Chert	1
S-32	1	Lopatka III	1973			Adze	Schist	1
S-32	1	Lopatka III	1973			Core	Andesite	2
S-32	1	Lopatka III	1973			Flake	Andesite	1
S-32	1	Lopatka III	1973			Point	Andesite	3
S-32	1	Lopatka III	1973			Stemmed scraper	Andesite	1
S-32	1	Lopatka III	1973			Retouched flake	Obsidian	7
S-32	1	Lopatka III	1973			Point	Obsidian	1
S-32	1	Lopatka III	1973			End scraper	Obsidian	1
S-32	1	Lopatka III	1973			Flake	Chert	1
S-32	1	Lopatka III	1975			Core	Andesite	1
S-32	1	Lopatka III	1975			Flake	Andesite	1
S-32	1	Lopatka III	1975			Retouched flake	Andesite	1
S-32	1	Lopatka III	1975			Flake	Chert	1
S-32	1	Lopatka III	1975			Retouched flake	Chert	1
S-32	2	Lopatka III	1973			Core	Chert	1
S-32	2	Lopatka III	1973			Retouched flake	Andesite	3
S-32	2	Lopatka III	1973			Retouched flake	Chert	1
S-32	3	Lopatka III	1973			Retouched flake	Obsidian	1
S-32	4	Lopatka III	1975			Arrowhead	Obsidian	1
S-32	5	Lopatka III	1973			Core	Andesite	1
S-32	5	Lopatka III	1973			Flake	Andesite	4
S-32	5	Lopatka III	1973			Retouched flake	Andesite	1
S-32	5	Lopatka III	1973			Point	Chert	1
S-32	5	Lopatka III	1973			Stemmed scraper	Chert	1

Box	Sub-	Site name	Year	Unit	Level	Artifact class	Stone	Count
	ID							
S-32	5	Lopatka III	1973			Stemmed scraper	Obsidian	4
S-33	1	Yavino 2	1979			Pebble	Andesite	2
S-33	1	Yavino 2	1979			Retouched flake	Andesite	1
S-33	1	Yavino 2	1979			Flake	Andesite	1
S-33	1	Yavino 2	1979			Flake	Chert	1
S-33	1	Yavino 2	1979			Core	Chert	1
S-33	1	Yavino 2	1979			Core	Chalcedony	1
S-33	2	Yavino 7	1979			Flake	Andesite	7
S-33	2	Yavino 7	1979			Retouched flake	Andesite	2
S-33	2	Yavino 2	1979			Flake	Chalcedony	13
S-33	2	Yavino 2	1979			Flake	Shale	4
S-33	2	Yavino 2	1979			End scraper	Chert	1
S-33	2	Yavino 2	1979			Point	Chert	1
S-33	2	Yavino 2	1979			Point	Obsidian	1
S-33	2	Yavino 2	1979			Flake	Obsidian	47
S-33	2	Yavino 2	1979			Retouched flake	Obsidian	2
S-33	2	Yavino 2	1979			Flake	Chert	16
S-33	2	Yavino 2	1979			Flake	Siltstone	1
S-33	4	Yavino 4	1979			Pebble	Andesite	1
S-33	4	Yavino 4	1979			Grinding stone	Tuff	1
S-33	4	Yavino 4	1979			Flake	Andesite	5
S-33	4	Yavino 4	1979			Core	Andesite	1
S-33	4	Yavino 4	1979			Flake	Obsidian	10
S-33	4	Yavino 4	1979			Chip	Obsidian	4
S-33	4	Yavino 4	1979			Core	Obsidian	4
S-33	4	Yavino 4	1979			Retouched flake	Chalcedony	1
S-33	4	Yavino 4	1979			End scraper	Andesite	1
S-33	5	Yavino 7	1979			Flake	Obsidian	26
S-33	5	Yavino 7	1979			Core	Andesite	10
S-33	5	Yavino 7	1979			Flake	Andesite	43
S-33	5	Yavino 7	1979			Retouched flake	Obsidian	2
S-33	5	Yavino 7	1979			End scraper	Obsidian	1
S-33	5	Yavino 7	1979			Point	Obsidian	1
S-33	5	Yavino 7	1979			Retouched flake	Andesite	4
S-33	5	Yavino 7	1979			Drill	Andesite	1
S-35	1	Lopatka IV	1973			Core	Andesite	1
S-35	1	Lopatka IV	1973		Surface collection	Flake	Andesite	1
S-35	1	Lopatka IV	1973	A-10		Flake	Andesite	1
S-35	1	Lopatka IV	1973	A-6		Retouched flake	Andesite	1
S-35	1	Lopatka IV	1973	A-7		Retouched flake	Andesite	2
S-35	1	Lopatka IV	1973	A-7		Flake	Andesite	1
S-35	1	Lopatka IV	1973	A-9		Retouched flake	Andesite	1
S-35	1	Lopatka IV	1973	A-1		Retouched flake	Andesite	1
S-35	1	Lopatka IV	1973	B-1		Flake	Andesite	1
S-35	1	Lopatka IV	1973	B-1		Core	Andesite	1
S-35	1	Lopatka IV	1973	B-1		Flake	Chert	1
S-35	1	Lopatka IV	1973	Ж-6		Flake	Andesite	2
S-35	1	Lopatka IV	1973	Ж-5		Core	Andesite	1
S-35	1	Lopatka IV	1973	Ж-4		Retouched flake	Andesite	3
S-35	1	Lopatka IV	1973	O-1		Core	Andesite	2
S-35	1	Lopatka IV	1973	O-10		Core	Andesite	1
S-35	1	Lopatka IV	1973	B-10		Core	Andesite	1
S-35	1	Lopatka IV	1973	B-11		Point	Andesite	1
S-35	1	Lopatka IV	1973	M-2		Retouched flake	Andesite	1
S-35	1	Lopatka IV	1973	M-2		Flake	Andesite	1
S-35	1	Lopatka IV	1973	B-8		Retouched flake	Andesite	2
S-35	1	Lopatka IV	1973	B-2		Flake	Chert	1
S-35	1	Lopatka IV	1973	Г-2		Retouched flake	Andesite	1
S-35	1	Lopatka IV	1973	Г-2		Core	Andesite	1
S-35	1	Lopatka IV	1973	И-2		Core	Andesite	1
S-35	1	Lopatka IV	1973	Г-10		Core	Andesite	1

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-35	1	Lopatka IV	1973	Г-11		Retouched flake	Andesite	1
S-35	1	Lopatka IV	1973	В-10		Retouched flake	Andesite	1
S-35	1	Lopatka IV	1973	В-7		Retouched flake	Andesite	1
S-35	1	Lopatka IV	1973	Д-3		Point	Andesite	1
S-35	1	Lopatka IV	1973	В-15		Point	Andesite	1
S-35	1	Lopatka IV	1973	К-7		Core	Andesite	1
S-35	1	Lopatka IV	1973	К-9		Retouched flake	Andesite	1
S-35	1	Lopatka IV	1973	Е-7		Core	Andesite	1
S-35	1	Lopatka IV	1973	Е-6		Core	Andesite	1
S-35	1	Lopatka IV	1973	Е-4		Core	Andesite	1
S-35	1	Lopatka IV	1973	В-5		Core	Andesite	1
S-35	1	Lopatka IV	1973	Б-9		Core	Andesite	1
S-35	1	Lopatka IV	1973	Б-1		Point	Andesite	1
S-35	1	Lopatka IV	1973	З-3		Retouched flake	Andesite	1
S-35	1	Lopatka IV	1973	М-6		Flake	Andesite	1
S-35	1	Lopatka IV	1973	М-12		Flake	Chert	1
S-35	1	Lopatka IV	1973	Ж-10		Retouched flake	Andesite	1
S-35	1	Lopatka IV	1973	У-4		Point	Andesite	1
S-35	1	Lopatka IV	1973	Н-10		Core	Andesite	1
S-35	1	Lopatka IV	1973	Н-12		Retouched flake	Andesite	1
S-35	1	Lopatka IV	1973	И-3		Retouched flake	Andesite	1
S-35	1	Lopatka IV	1973	И-8		End scraper	Chert	1
S-35	1	Lopatka IV	1973	И-9		Retouched flake	Andesite	1
S-35	1	Lopatka IV	1973	И-9		Core	Andesite	1
S-36	1	Lopatka III	1973	Е-2		Core	Andesite	2
S-36	1	Lopatka III	1973	З-6		Core	Andesite	1
S-36	1	Lopatka III	1973	В-8		Core	Andesite	1
S-36	1	Lopatka II	1973			Core	Andesite	1
S-36	1	Lopatka II	1973		Unknown stone plate	Andesite	1	
S-36	1	Lopatka II	1973		Pebble	Andesite	1	
S-36	1	Lopatka II	1973		Surface collection	Retouched flake	Andesite	7
S-36	1	Lopatka II	1973		Surface collection	Retouched flake	Chert	6
S-36	1	Lopatka II	1973		Surface collection	Stemmed scraper	Chert	2
S-36	1	Lopatka II	1973		Surface collection	Point	Chert	1
S-36	1	Lopatka II	1973		Surface collection	Point	Andesite	1
S-36	1	Lopatka II	1973		Surface collection	Retouched flake	Obsidian	9
S-36	1	Lopatka II	1973		Surface collection	Arrowhead	Obsidian	1
S-36	1	Lopatka II	1973		Surface collection	Point	Obsidian	6
S-36	1	Lopatka II	1973		Surface collection	Utilized flake	Obsidian	1
S-36	1	Lopatka II	1973		Surface collection	Side scraper	Obsidian	1
S-36	2	Lopatka III	1973	Е-4		Core	Andesite	1
S-36	2	Lopatka III	1973	И-4		Core	Andesite	1
S-36	2	Lopatka III	1973	Ж-7		Core	Andesite	1
S-36	2	Lopatka III	1973	Ж-7		Retouched flake	Andesite	1
S-36	2	Lopatka III	1973	Ж-4		Retouched flake	Andesite	1
S-36	2	Lopatka III	1973	А-2		Flake	Andesite	1
S-36	2	Lopatka III	1973	З-6		Retouched flake	Andesite	1
S-36	2	Lopatka III	1973	И-2		Adze	Schist	1
S-36	3	Lopatka III	1973	И-7		Core	Andesite	1
S-36	3	Lopatka III	1973	И-7		Core	Chert	1

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-36	3	Lopatka III	1973	И-7		Arrowhead	Chert	1
S-36	3	Lopatka III	1973			Arrowhead	Andesite	1
S-36	3	Lopatka III	1973	Ж-3		Core	Andesite	1
S-36	3	Lopatka III	1973	Д-3		Flake	Andesite	1
S-36	3	Lopatka III	1973	3-3		Core	Andesite	1
S-36	3	Lopatka III	1973	3-5		Core	Andesite	1
S-36	3	Lopatka III	1973	3-5		Flake	Chert	1
S-36	3	Lopatka III	1973	3-6		Core	Andesite	1
S-36	3	Lopatka III	1973	3-6		Retouched flake	Andesite	1
S-36	3	Lopatka III	1973	3-6		Flake	Andesite	1
S-36	3	Lopatka III	1973	3-1		Core	Andesite	1
S-36	3	Lopatka III	1973	3-1		Flake	Andesite	1
S-36	3	Lopatka III	1973	3-1		Retouched flake	Obsidian	1
S-36	3	Lopatka III	1973	3-7		Flake	Chert	1
S-36	3	Lopatka III	1973	3-8		Flake	Andesite	1
S-36	3	Lopatka III	1973	Г-2		Flake	Obsidian	1
S-36	3	Lopatka III	1973	Г-2		Retouched flake	Obsidian	1
S-36	3	Lopatka III	1973	Г-9		Adze	Schist	1
S-36	3	Lopatka III	1973	Г-1		Retouched flake	Obsidian	1
S-36	3	Lopatka III	1973	Е-1		Point	Andesite	1
S-36	3	Lopatka III	1973	Е-2		Flake	Chert	1
S-36	3	Lopatka III	1973	Е-8		Retouched flake	Andesite	2
S-36	3	Lopatka III	1973	А-1		Core	Andesite	1
S-36	3	Lopatka III	1973	А-1		Flake	Obsidian	1
S-36	3	Lopatka III	1973	А-1		Flake	Andesite	1
S-36	3	Lopatka III	1973	А-1		End scraper	Chert	1
S-36	3	Lopatka III	1973	Д-2		Flake	Andesite	1
S-36	3	Lopatka III	1973	Г-7		Retouched flake	Obsidian	1
S-36	3	Lopatka III	1973	Г-7		Flake	Andesite	1
S-36	3	Lopatka III	1973	А-2		Retouched flake	Obsidian	1
S-36	3	Lopatka III	1973	В-2		Core	Andesite	1
S-36	3	Lopatka III	1973	В-7		Flake	Shale	1
S-36	3	Lopatka III	1973			Core	Andesite	1
S-37	1	Lopatka II	1973	Г-2		Flake	Andesite	67
S-37	1	Lopatka II	1973	Г-2		Core	Andesite	7
S-37	2	Lopatka II	1973	Б-2		Flake	Andesite	8
S-37	2	Lopatka II	1973	Б-2		Core	Chalcedony	1
S-37	3	Lopatka II	1973	Г-1		Core	Chalcedony	1
S-37	3	Lopatka II	1973	Г-1		Core	Andesite	1
S-37	4	Lopatka II	1973	СК-1		Flake	Andesite	7
S-37	4	Lopatka II	1973	СК-1		Core	Andesite	2
S-37	5	Lopatka II	1973	Б-4		Flake	Andesite	7
S-37	6	Lopatka II	1973	Г-1		Flake	Andesite	45
S-37	6	Lopatka II	1973	Г-1		Flake	Chert	9
S-37	6	Lopatka II	1973	Г-1		Core	Chalcedony	1
S-37	7	Lopatka II	1973	Г-2		Core	Chert	1
S-37	7	Lopatka II	1973	Г-2		Flake	Chert	1
S-37	7	Lopatka II	1973	Г-2		Flake	Tuff	1
S-37	7	Lopatka II	1973	Г-2		Flake	Chalcedony	1
S-37	8	Lopatka II	1973	А-5		Flake	Andesite	57
S-37	8	Lopatka II	1973	А-5		Core	Andesite	6
S-37	8	Lopatka II	1973	А-5		Flake	Chert	1
S-37	8	Lopatka II	1973	А-5		Arrowhead	Obsidian	2
S-37	9	Lopatka II	1973	Г-1		Flake	Andesite	26
S-37	9	Lopatka II	1973	Г-1		Core	Andesite	1
S-37	9	Lopatka II	1973	Г-1		Flake	Chert	1
S-37	9	Lopatka II	1973	Г-1		Core	Chert	1
S-38	1	Yavino 7	1979			Flake	Obsidian	46
S-38	1	Yavino 7	1979			Utilized flake	Obsidian	6
S-38	1	Yavino 7	1979			Retouched flake	Obsidian	3
S-38	1	Yavino 7	1979			End scraper	Obsidian	1
S-38	1	Yavino 7	1979			Side scraper	Obsidian	1
S-38	1	Yavino 7	1979			Core	Andesite	1

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-38	1	Yavino 7	1979			Flake	Andesite	20
S-38	1	Yavino 7	1979			Pebble	Pumice	4
S-38	1	Yavino 7	1979			Retouched flake	Andesite	1
S-38	1	Yavino 7	1979			Flake	Chert	2
S-38	1	Yavino 7	1979			Retouched flake	Chert	1
S-38	1	Yavino 7	1979			Retouched flake	Chalcedony	1
S-38	1	Yavino 7	1979			Chip	Obsidian	131
S-38	1	Yavino 7	1979			Chip	Andesite	12
S-38	1	Yavino 7	1979			Chip	Shale	2
S-38	1	Yavino 7	1979			Chip	Chert	2
S-38	1	Yavino 7	1979			Chip	Tuff	1
S-38	1	Yavino 7	1979			Chip	Chalcedony	2
S-38	1	Yavino 7	1979		Arrowhead	Shale	1	
S-38	2	Yavino 4	1979			Flake	Obsidian	28
S-38	2	Yavino 4	1979			Core	Chalcedony	1
S-38	2	Yavino 4	1979			Weight	Andesite	1
S-38	2	Yavino 4	1979			Retouched flake	Obsidian	1
S-38	2	Yavino 4	1979			End scraper	Obsidian	1
S-38	2	Yavino 4	1979			Pebble	Andesite	1
S-38	2	Yavino 4	1979			Flake	Andesite	6
S-38	3	Yavino 7	1979			Flake	Obsidian	8
S-38	3	Yavino 7	1979			Retouched flake	Obsidian	2
S-38	3	Yavino 7	1979			Side scraper	Andesite	1
S-38	3	Yavino 7	1979			Adze	Tuff	1
S-38	3	Yavino 7	1979			Flake	Andesite	4
S-38	3	Yavino 7	1979			Pebble	Pumice	3
S-38	3	Yavino 7	1979			Pebble	Chert	1
S-38	4	Yavino 4	1979			Flake	Obsidian	5
S-38	4	Yavino 4	1979			Flake	Andesite	6
S-38	5	Yavino 7	1979			Flake	Andesite	55
S-38	5	Yavino 7	1979			Flake	Chert	5
S-38	5	Yavino 7	1979			Chip	Chalcedony	1
S-38	5	Yavino 7	1979			Chip	Andesite	12
S-38	5	Yavino 7	1979			Flake	Shale	8
S-38	5	Yavino 7	1979			Flake	Obsidian	1
S-38	5	Yavino 7	1979			Point	Chert	1
S-38	5	Yavino 7	1979			Pebble	Pumice	2
S-38	6	Yavino 7	1979			Flake	Obsidian	102
S-38	6	Yavino 7	1979			Retouched flake	Obsidian	11
S-38	6	Yavino 7	1979			Utilized flake	Obsidian	4
S-38	6	Yavino 7	1979			Side scraper	Obsidian	3
S-38	6	Yavino 7	1979			Point	Obsidian	1
S-38	6	Yavino 7	1979			Flake	Andesite	18
S-38	6	Yavino 7	1979			Flake	Schist	1
S-38	6	Yavino 7	1979			Flake	Shale	1
S-38	6	Yavino 7	1979			Flake	Chert	3
S-38	6	Yavino 7	1979			Point	Chert	1
S-38	6	Yavino 7	1979			Point	Andesite	1
S-38	6	Yavino 7	1979			Adze	Andesite	1
S-38	6	Yavino 4	1979			Adze	Tuff	1
S-38	6	Yavino 4	1979			Adze	Schist	1
S-38	6	Yavino 7	1979			Pebble	Pumice	6
S-38	6	Yavino 7	1979			End scraper	Obsidian	5
S-38	7	Yavino 7	1979			Flake	Obsidian	312
S-38	7	Yavino 7	1979			Chip	Obsidian	179
S-38	7	Yavino 7	1979			Retouched flake	Obsidian	4
S-38	7	Yavino 7	1979			End scraper	Obsidian	1
S-38	7	Yavino 7	1979			Side scraper	Obsidian	5
S-38	7	Yavino 7	1979			Flake	Chert	1
S-38	7	Yavino 7	1979			Chip	Andesite	3
S-38	7	Yavino 7	1979			Chip	Schist	1
S-39	1	Lopatka IV	1973	3-8		Core	Andesite	5
S-39	1	Lopatka IV	1973	3-8		Flake	Andesite	26

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-39	1	Lopatka IV	1973	3-8		Hummer	Andesite	1
S-39	1	Lopatka IV	1973	3-8		Retouched flake	Chert	1
S-39	1	Lopatka III	1973	Ж-7		Flake	Chert	1
S-39	1	Lopatka III	1973	Ж-7		Core	Siltstone	1
S-39	2	Lopatka IV	1973	A-5		Core	Andesite	2
S-39	2	Lopatka IV	1973	A-5		Flake	Andesite	12
S-39	2	Lopatka IV	1973	A-5		Flake	Chert	1
S-39	2	Lopatka III	1973	E-4		Core	Andesite	1
S-39	2	Lopatka III	1973	E-4		Flake	Andesite	8
S-39	3	Lopatka IV	1973	H-12		Core	Chalcedony	1
S-39	3	Lopatka III	1973	Ж-6		Core	Andesite	4
S-39	3	Lopatka III	1973	Ж-6		Flake	Andesite	3
S-39	3	Lopatka III	1973	Ж-6		Flake	Chert	1
S-39	4	Lopatka IV	1973	Ж-4		Core	Andesite	5
S-39	4	Lopatka IV	1973	Ж-4		Flake	Andesite	1
S-39	4	Lopatka IV	1973	Ж-4		Flake	Chalcedony	1
S-39	4	Lopatka IV	1973	Ж-4		Core	Chert	2
S-39	4	Lopatka III	1973	Д-8		Core	Andesite	3
S-39	4	Lopatka III	1973	Д-8		Flake	Andesite	7
S-39	5	Lopatka IV	1973	И-2		Core	Andesite	8
S-39	5	Lopatka IV	1973	И-2		Flake	Andesite	6
S-39	5	Lopatka IV	1973	И-2		Core	Chert	9
S-39	5	Lopatka IV	1973	И-2		Flake	Chert	9
S-39	5	Lopatka III	1973	E-3		Core	Andesite	7
S-39	5	Lopatka III	1973	E-3		Flake	Andesite	5
S-39	5	Lopatka III	1973	E-3		Retouched flake	Andesite	1
S-39	5	Lopatka III	1973	E-3		Flake	Chert	1
S-39	6	Lopatka IV	1973	Л-11		Flake	Andesite	1
S-39	6	Lopatka III	1973	Д-3		Core	Andesite	2
S-39	7	Lopatka IV	1973	Б-8		Flake	Andesite	5
S-39	7	Lopatka III	1973	Д-7		Core	Andesite	11
S-39	7	Lopatka III	1973	Д-7		Flake	Andesite	3
S-39	8	Lopatka IV	1973	A-4		Core	Andesite	2
S-39	8	Lopatka IV	1973	A-4		Flake	Andesite	14
S-39	8	Lopatka IV	1973	A-4		End scraper	Chert	1
S-39	9	Lopatka IV	1973	Б-2		Core	Andesite	6
S-39	9	Lopatka IV	1973	Б-2		Flake	Andesite	21
S-39	9	Lopatka IV	1973	Б-2		Pebble	Andesite	1
S-39	9	Lopatka IV	1973	Б-2		Core	Chalcedony	1
S-39	9	Lopatka IV	1973	Б-2		Flake	Chert	1
S-39	10	Lopatka IV	1973	H-12		Core	Andesite	10
S-39	10	Lopatka IV	1973	H-12		Flake	Andesite	13
S-39	10	Lopatka IV	1973	H-12		Core	Chert	3
S-39	10	Lopatka IV	1973	H-12		Flake	Chert	8
S-39	10	Lopatka IV	1973	H-12		Retouched flake	Chert	2
S-39	10	Lopatka IV	1973	H-12		Flake	Chalcedony	2
S-39	10	Lopatka IV	1973	H-12		Core	Siltstone	1
S-39	10	Lopatka IV	1973	H-12		Arrowhead	Andesite	1
S-40		Yavino	1979	Test pit		Flake	Andesite	1
S-40		Yavino	1979	Test pit		Pebble	Pumice	1
S-41	1	Andrianovka	1975			Pebble	Andesite	3
S-41	1	Andrianovka	1975			Stone lamp	Andesite	1
S-41	2	Andrianovka	1975			Flake	Chalcedony	24
S-41	2	Andrianovka	1975			Flake	Obsidian	15
S-41	2	Andrianovka	1975			Core	Obsidian	2
S-41	2	Andrianovka	1975			Retouched flake	Andesite	1
S-41	2	Andrianovka	1975			Flake	Chert	24
S-41	3	Andrianovka	1975			Retouched flake	Andesite	2
S-41	3	Andrianovka	1975			Flake	Chert	3
S-41	3	Andrianovka	1975			Flake	Obsidian	6
S-41	3	Andrianovka	1975			Retouched flake	Obsidian	1
S-41	3	Andrianovka	1975			Point	Obsidian	1
S-41	4	Andrianovka	1975			Flake	Andesite	6

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-41	4	Andrianovka	1975			Retouched flake	Andesite	1
S-41	4	Andrianovka	1975			Flake	Obsidian	2
S-41	4	Andrianovka	1975			Retouched flake	Obsidian	1
S-41	5	Andrianovka	1975			Flake	Obsidian	6
S-41	5	Andrianovka	1975			Flake	Andesite	3
S-41	5	Andrianovka	1975			Flake	Chert	6
S-41	5	Andrianovka	1975			Flake	Chalcedony	6
S-41	5	Andrianovka	1975			Core	Chert	1
S-42	1	Lopatka I	1973			Stone lamp	Andesite	1
S-43	1	Lopatka III	1973	Ж-7		Core	Andesite	6
S-43	1	Lopatka III	1973	Ж-7		Flake	Andesite	6
S-44	1	Lopatka III	1973			Anvil stone	Andesite	1
S-44	2	Lopatka IV	1973			Flake	Andesite	1
S-44	3	Lopatka IV	1973	Ж-5		Flake	Andesite	3
S-44	3	Lopatka IV	1973	Ж-5		Core	Andesite	2
S-44	4	Lopatka IV	1973	E-1		Flake	Andesite	5
S-44	4	Lopatka IV	1973	E-1		Core	Andesite	1
S-44	5	Lopatka IV	1973	K-9		Flake	Andesite	3
S-44	6	Lopatka IV	1973	E-11		Flake	Andesite	1
S-44	7	Lopatka IV	1973			Flake	Andesite	1
S-44	8	Lopatka IV	1973	И-8		Flake	Andesite	3
S-44	9	Lopatka IV	1973	Ж-6		Flake	Andesite	4
S-44	9	Lopatka IV	1973	Ж-6		Core	Andesite	1
S-45	1	Lopatka IV	1973		Surface collection	Flake	Andesite	7
S-45	1	Lopatka IV	1973		Surface collection	Flake	Chert	3
S-45	2	Lopatka IV	1973	3-8		Pebble	Chert	1
S-45	3	Lopatka IV	1973		Surface collection	Core	Andesite	6
S-45	3	Lopatka IV	1973		Surface collection	Flake	Andesite	5
S-45	3	Lopatka IV	1973		Surface collection	Core	Chalcedony	1
S-45	3	Lopatka IV	1973		Surface collection	Flake	Chalcedony	2
S-45	3	Lopatka IV	1973		Surface collection	Flake	Chert	1
S-45	3	Lopatka IV	1973		Surface collection	Flake	Obsidian	1
S-45	4	Lopatka IV	1973		Surface collection	Core	Andesite	9
S-45	4	Lopatka IV	1973		Surface collection	Flake	Andesite	24
S-45	4	Lopatka IV	1973		Surface collection	Flake	Chalcedony	1
S-45	4	Lopatka IV	1973		Surface collection	Flake	Chert	12
S-45	5	Lopatka IV	1973			Core	Andesite	1
S-45	5	Lopatka IV	1973		Surface collection	Core	Andesite	1
S-45	5	Lopatka IV	1973		Surface collection	Flake	Andesite	2
S-45	5	Lopatka IV	1973		Surface collection	Flake	Chert	1
S-45	5	Lopatka IV	1973		Surface collection	Flake	Obsidian	5

Box ID	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-45	5	Lopatka IV	1973		Surface collection	Arrowhead	Obsidian	1
S-45	5	Lopatka IV	1973		Surface collection	Arrowhead	Andesite	1
S-45	6	Lopatka IV	1973		Surface collection	Core	Andesite	1
S-45	6	Lopatka IV	1973		Surface collection	Flake	Andesite	5
S-45	6	Lopatka IV	1973		Surface collection	End scraper	Chert	1
S-45	6	Lopatka IV	1973		Surface collection	Retouched flake	Chert	2
S-45	6	Lopatka IV	1973		Surface collection	Flake	Chert	2
S-45	7	Lopatka IV	1973		Surface collection	Core	Andesite	8
S-45	7	Lopatka IV	1973		Surface collection	Flake	Andesite	41
S-45	7	Lopatka IV	1973		Surface collection	Retouched flake	Andesite	1
S-45	7	Lopatka IV	1973		Surface collection	Flake	Obsidian	3
S-45	7	Lopatka IV	1973		Surface collection	Flake	Chert	11
S-45	7	Lopatka IV	1973		Surface collection	Flake	Chalcedony	3
S-45	8	Lopatka IV	1973	3-5		Core	Andesite	5
S-45	8	Lopatka IV	1973	3-5		Flake	Andesite	1
S-45	8	Lopatka IV	1973	3-5		Pebble	Chert	1
S-46	1	Lopatka IV	1972			Retouched flake	Andesite	4
S-46	1	Lopatka IV	1972			Core	Andesite	2
S-46	1	Lopatka IV	1972			Flake	Andesite	3
S-46	1	Lopatka IV	1972			Flake	Shale	1
S-46	1	Lopatka IV	1972			Core	Chalcedony	1
S-46	1	Lopatka IV	1972			Pebble	Andesite	1
S-46	2	Lopatka IV	1972			Pebble	Sandstone	1
S-46	3	Lopatka IV	1972			Core	Chert	1
S-46	3	Lopatka IV	1972			Retouched flake	Chert	4
S-46	3	Lopatka IV	1972			Retouched flake	Andesite	2
S-46	3	Lopatka IV	1972			Flake	Andesite	1
S-46	3	Lopatka IV	1972			Core	Andesite	1
S-46	4	Lopatka IV	1972			Core	Andesite	2
S-46	4	Lopatka IV	1972			Flake	Andesite	9
S-46	4	Lopatka IV	1972			Retouched flake	Andesite	2
S-46	4	Lopatka IV	1972			Flake	Obsidian	3
S-46	4	Lopatka IV	1972			Flake	Chalcedony	1
S-46	4	Lopatka IV	1972			Retouched flake	Chert	2
S-46	4	Lopatka IV	1972			Flake	Chert	2
S-46	5	Lopatka IV	1972			Core	Andesite	3
S-46	5	Lopatka IV	1972			Flake	Andesite	47
S-46	5	Lopatka IV	1972			Core	Chert	4
S-46	5	Lopatka IV	1972			Flake	Chert	33
S-46	5	Lopatka IV	1972			Pebble	Chert	1
S-46	5	Lopatka IV	1972			Core	Shale	2
S-46	5	Lopatka IV	1972			Core	Chalcedony	1
S-46	5	Lopatka IV	1972			Wedging piece	Chalcedony	1
S-46	5	Lopatka IV	1972			Flake	Chalcedony	7
S-46	5	Lopatka IV	1972			Flake	Obsidian	2
S-47	1	Lopatka II	1975			Core	Andesite	6

Box ID	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-47	1	Lopatka II	1975			Flake	Andesite	3
S-47	1	Lopatka II	1975			Core	Chert	1
S-47	1	Lopatka II	1975			Flake	Andesite	1
S-47	1	Lopatka II	1975			Pebble	Andesite	1
S-47	1	Lopatka II	1975			Core	Chalcedony	2
S-47	2	Lopatka II	1975			Core	Andesite	3
S-47	2	Lopatka II	1975			Flake	Andesite	3
S-47	2	Lopatka II	1975			Core	Chert	3
S-47	2	Lopatka II	1975			Flake	Chert	2
S-47	3	Lopatka II	1975			Core	Andesite	4
S-47	3	Lopatka II	1975			Flake	Andesite	2
S-47	3	Lopatka II	1975			Core	Chert	2
S-47	3	Lopatka II	1975			Flake	Chert	4
S-47	3	Lopatka II	1975			Flake	Shale	2
S-47	3	Lopatka II	1975			Flake	Obsidian	1
S-47	4	Lopatka II	1975			Core	Andesite	4
S-47	4	Lopatka II	1975			Flake	Andesite	3
S-47	5	Lopatka II	1975			Flake	Obsidian	3
S-47	5	Lopatka II	1975			Core	Chert	1
S-47	5	Lopatka II	1975			Flake	Chert	6
S-47	5	Lopatka II	1975			Core	Shale	1
S-47	5	Lopatka II	1975			Flake	Shale	4
S-47	5	Lopatka II	1975			Flake	Schist	1
S-47	6	Lopatka II	1975			Core	Andesite	8
S-47	6	Lopatka II	1975			Flake	Andesite	3
S-47	6	Lopatka II	1975			Core	Chert	1
S-47	6	Lopatka II	1975			Flake	Chert	1
S-47	6	Lopatka II	1975		Retouched flake	Shale	2	
S-47	6	Lopatka II	1975			Flake	Shale	3
S-47	6	Lopatka II	1975			Flake	Obsidian	1
S-47	7	Lopatka II	1975		Retouched flake	Andesite	1	
S-47	7	Lopatka II	1975			Flake	Quatz	1
S-47	7	Lopatka II	1975		Retouched flake	Obsidian	1	
S-47	8	Lopatka II	1975			Core	Andesite	4
S-47	8	Lopatka II	1975			Flake	Andesite	6
S-47	8	Lopatka II	1975			Flake	Obsidian	1
S-47	8	Lopatka II	1975			Flake	Chert	2
S-47	8	Lopatka II	1975			Wedging piece	Chert	1
S-47	8	Lopatka II	1975			Flake	Shale	5
S-47	8	Lopatka II	1975		Retouched flake	Andesite	2	
S-47	8	Lopatka II	1975			End scraper	Obsidian	1
S-47	8	Lopatka II	1975			Core	Tuff	1
S-48	1	Lopatka IV	1973			Flake	Andesite	8
S-48	1	Lopatka IV	1973			Core	Andesite	2
S-48	1	Lopatka IV	1973			Flake	Chert	13
S-48	1	Lopatka IV	1973			Core	Chert	1
S-48	1	Lopatka IV	1973			Flake	Obsidian	1
S-48	2	Lopatka V	1975			Flake	Andesite	5
S-48	2	Lopatka V	1975			Flake	Chert	2
S-48	2	Lopatka V	1975			Point	Andesite	1
S-48	2	Lopatka V	1975			Flake	Chalcedony	1
S-48	2	Lopatka II		Surface collection		Handstone	Andesite	1
S-48	3	Lopatka II	1972			Core	Andesite	7
S-48	3	Lopatka II	1972			Flake	Andesite	13
S-48	3	Lopatka II	1972		Retouched flake	Andesite	1	
S-48	3	Lopatka II	1972			Core	Tuff	1
S-48	3	Lopatka II	1972			Flake	Chert	15
S-48	3	Lopatka II	1972			Arrowhead	Andesite	1
S-48	3	Lopatka II	1972			Flake	Obsidian	8
S-48	3	Lopatka II	1972			Point	Obsidian	2
S-48	3	Lopatka II	1972			Flake	Chalcedony	14

Box	Sub-	Site name	Year	Unit	Level	Artifact class	Stone	Count
	ID							
S-48	3	Lopatka II	1972			Utilized flake	Obsidian	1
S-48	3	Lopatka II	1972			Retouched flake	Obsidian	2
S-48	3	Lopatka II	1972			End scraper	Obsidian	4
S-48	3	Lopatka II	1972			Core	Chalcedony	2
S-49	1	Lopatka IV	1973			Core	Andesite	31
S-49	1	Lopatka IV	1973			Flake	Andesite	63
S-49	1	Lopatka IV	1973			Retouched flake	Andesite	5
S-49	1	Lopatka IV	1973			Core	Chert	12
S-49	1	Lopatka IV	1973			Flake	Chert	13
S-49	1	Lopatka IV	1973			Core	Chalcedony	1
S-49	1	Lopatka IV	1973			Flake	Chalcedony	6
S-49	1	Lopatka IV	1973			Retouched flake	Chert	1
S-50	1	Lopatka I	1973			Adze	Schist	2
S-50	1	Lopatka I	1973			Adze	Andesite	1
S-50	1	Lopatka	1972		Surface collection	Ground stone stick	Schist	1
S-50	1	Lopatka	1973			Adze	Andesite	1
S-51	1	Lopatka IV	1973	Ж-8		Pebble	Andesite	1
S-51	2	Lopatka IV	1973	A-7		Flake	Andesite	6
S-51	3	Lopatka IV	1973	Д-9		Flake	Andesite	2
S-51	4	Lopatka IV	1973	3-7		Flake	Andesite	8
S-51	4	Lopatka IV	1973	3-7		Hummer	Andesite	1
S-51	4	Lopatka IV	1973	3-7		Flake	Andesite	7
S-51	4	Lopatka IV	1973	3-7		Flake	Chert	4
S-51	4	Lopatka IV	1973	3-7		Flake	Chalcedony	2
S-51	5	Lopatka IV	1973			Flake	Andesite	18
S-51	5	Lopatka IV	1973			Flake	Andesite	12
S-51	5	Lopatka IV	1973			Flake	Shale	2
S-51	5	Lopatka IV	1973			Flake	Chert	10
S-51	5	Lopatka IV	1973			Flake	Obsidian	1
S-51	6	Lopatka IV	1973	O-12		Flake	Andesite	174
S-51	6	Lopatka IV	1973	O-12		Core	Andesite	2
S-51	6	Lopatka IV	1973	O-12		Flake	Chert	2
S-51	6	Lopatka IV	1973	O-12		Flake	Shale	1
S-51	6	Lopatka IV	1973	O-12		Flake	Chalcedony	2
S-51	6	Lopatka IV	1973	A-6		Flake	Andesite	10
S-51	6	Lopatka IV	1973	A-6		Core	Andesite	3
S-52	1	Lopatka IV	1975			Core	Andesite	1
S-52	1	Lopatka IV	1975			Flake	Andesite	4
S-52	1	Lopatka IV	1975			Retouched flake	Andesite	1
S-52	1	Lopatka IV	1975			Flake	Chert	1
S-52	2	Lopatka IV	1975			Flake	Obsidian	4
S-52	2	Lopatka IV	1975			Flake	Chert	3
S-52	2	Lopatka IV	1975			Flake	Andesite	2
S-52	2	Lopatka IV	1975			Flake	Schist	1
S-52	2	Lopatka IV	1975			Flake	Chalcedony	2
S-52	8	Lopatka IV	1975			Flake	Andesite	7
S-52	8	Lopatka IV	1975			Retouched flake	Andesite	70
S-52	8	Lopatka IV	1975			Core	Andesite	1
S-52	8	Lopatka IV	1975			Flake	Chert	1
S-52	8	Lopatka IV	1975			Retouched flake	Chert	11
S-52	8	Lopatka IV	1975			Retouched flake	Shale	2
S-52	8	Lopatka IV	1975			Core	Shale	1
S-52	8	Lopatka IV	1975			Point	Andesite	4
S-52	8	Lopatka IV	1975			Retouched flake	Obsidian	1
S-52	8	Lopatka IV	1975			Point	Obsidian	1
S-52	8	Lopatka IV	1975			Point	Chert	1
S-52	9	Lopatka IV	1975			Arrowhead	Obsidian	19
S-52	9	Lopatka IV	1975			Point	Obsidian	5
S-52	9	Lopatka IV	1975			Arrowhead	Andesite	3
S-52	9	Lopatka IV	1975			Point	Andesite	18
S-52	9	Lopatka IV	1975			Flake	Andesite	4

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-52	9	Lopatka IV	1975			Retouched flake	Andesite	2
S-52	9	Lopatka IV	1975			Arrowhead	Chert	2
S-52	9	Lopatka IV	1975			Point	Chalcedony	2
S-52	9	Lopatka IV	1975			End scraper	Obsidian	1
S-52	9	Lopatka IV	1975			Flake	Obsidian	1
S-54	1	Lopatka IV	1973	E-3		Core	Andesite	2
S-54	1	Lopatka IV	1973	E-3		Flake	Andesite	1
S-54	2	Lopatka IV	1973			Core	Andesite	2
S-54	2	Lopatka IV	1973			Flake	Andesite	19
S-54	2	Lopatka IV	1973			Core	Chert	1
S-54	3	Lopatka IV	1973	II-9		Flake	Chert	1
S-54	4	Lopatka IV	1973	B-12		Core	Andesite	1
S-54	4	Lopatka IV	1973	B-12		Flake	Andesite	4
S-54	5	Lopatka IV	1973	H-9		Core	Andesite	1
S-54	5	Lopatka IV	1973	H-9		Flake	Andesite	1
S-54	5	Lopatka IV	1973	H-9		Core	Chert	1
S-54	5	Lopatka IV	1973	H-9		Core	Schist	1
S-54	5	Lopatka IV	1973	Д-5		Flake	Andesite	5
S-54	6	Lopatka IV	1973	B-9		Flake	Andesite	9
S-54	6	Lopatka IV	1973	B-9		Flake	Chalcedony	1
S-54	7	Lopatka IV	1973	Test trench		Flake	Andesite	4
S-54	7	Lopatka IV	1973	Test trench		Flake	Chert	1
S-54	8	Lopatka IV	1973	O-7		Flake	Andesite	6
S-54	8	Lopatka IV	1973	И-7		Core	Andesite	1
S-54	8	Lopatka IV	1973	Ж-6		Core	Andesite	1
S-54	8	Lopatka IV	1973	Ж-6		Pebble	Siltstone	1
S-54	8	Lopatka IV	1973	A-2		Core	Andesite	7
S-54	8	Lopatka IV	1973	A-2		Flake	Andesite	3
S-54	8	Lopatka IV	1973	A-2		Flake	Chert	1
S-54	9	Lopatka IV	1973	3-9		Flake	Andesite	1
S-55	1	Yavino 3	1977			Core	Andesite	3
S-55	1	Yavino 3	1977			Flake	Andesite	25
S-55	1	Yavino 3	1977			Pebble	Andesite	3
S-55	1	Yavino 3	1977			Core	Chert	6
S-55	1	Yavino 3	1977			Flake	Chert	3
S-55	1	Yavino 3	1977			Flake	Chalcedony	3
S-55	1	Yavino 3	1977			Flake	Siltstone	1
S-55	1	Yavino 3	1977			Retouched flake	Chert	1
S-55	1	Yavino 3	1977			Retouched flake	Obsidian	2
S-55	1	Yavino 3	1977			Flake	Obsidian	11
S-55	1	Yavino 3	1977			Core	Obsidian	1
S-55	1	Yavino 3	1977			Chip	Obsidian	1
S-56	1	Andrianovka	1975			Stone lamp	Andesite	1
S-56	1	Andrianovka	1975			Core	Schist	1
S-56	1	Andrianovka	1975			Pebble	Andesite	2
S-56	2	Andrianovka	1975			Adze	Andesite	2
S-56	2	Andrianovka	1975			Adze	Schist	1
S-56	2	Andrianovka	1975			Core	Andesite	1
S-56	2	Andrianovka	1975			End scraper	Obsidian	1
S-56	2	Andrianovka	1975			Retouched flake	Obsidian	2
S-56	2	Andrianovka	1975			Flake	Andesite	10
S-56	2	Andrianovka	1975			Flake	Obsidian	1
S-56	3	Andrianovka	1975			Flake	Shale	116
S-56	3	Andrianovka	1975			Flake	Chalcedony	4
S-56	3	Andrianovka	1975			Flake	Chert	6
S-56	4	Andrianovka	1975			Core	Obsidian	2
S-56	4	Andrianovka	1975			Flake	Obsidian	7
S-56	4	Andrianovka	1975			Flake	Andesite	10
S-56	4	Andrianovka	1975			Flake	Chert	3
S-56	4	Andrianovka	1975			Retouched flake	Andesite	1
S-56	4	Andrianovka	1975			Core	Chert	1
S-56	4	Andrianovka	1975			Core	Chalcedony	1
S-56	4	Andrianovka	1975			Pebble	Andesite	1

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-56	5	Andrianovka	1975			Flake	Chert	17
S-56	5	Andrianovka	1975			Flake	Shale	4
S-56	5	Andrianovka	1975			Flake	Obsidian	11
S-56	5	Andrianovka	1975			Flake	Chalcedony	6
S-58	1	Kirpichnaya	1962			Flake	Obsidian	11
S-58	1	Kirpichnaya	1962			Adze	Schist	7
S-58	1	Kirpichnaya	1962			Flake	Schist	5
S-58	1	Kirpichnaya	1962			Grinding stone	Sandstone	1
S-58	1	Kirpichnaya	1962			Core	Tuff	1
S-58	1	Kirpichnaya	1962			Retouched flake	Chalcedony	7
S-58	1	Kirpichnaya	1962			End scraper	Chalcedony	1
S-58	1	Kirpichnaya	1962			Retouched flake	Obsidian	15
S-58	1	Kirpichnaya	1962			Retouched flake	Andesite	2
S-58	1	Kirpichnaya	1962			Side scraper	Obsidian	2
S-58	1	Kirpichnaya	1962			End scraper	Obsidian	2
S-58	1	Kirpichnaya	1962			Drill	Obsidian	1
S-58	1	Kirpichnaya	1962			Arrowhead	Obsidian	4
S-58	1	Kirpichnaya	1962			Point	Obsidian	9
S-58	1	Kirpichnaya	1962			Point	Andesite	2
S-58	1	Kirpichnaya	1962			Point	Chert	4
S-58	1	Kirpichnaya	1962			Stemmed scraper	Chert	1
S-59	1	Lopatka IV	1975			Retouched flake	Chalcedony	2
S-59	1	Lopatka IV	1975			End scraper	Chert	1
S-59	1	Lopatka IV	1975			Retouched flake	Obsidian	2
S-59	1	Andrianovka	1973			Stone lamp	Andesite	1
S-59	2	Andrianovka	1973		Lower layer	Retouched flake	Obsidian	2
S-59	2	Andrianovka	1973		Lower layer	Retouched flake	Chert	4
S-59	2	Andrianovka	1973		Lower layer	Point	Obsidian	1
S-59	2	Andrianovka	1973		Lower layer	Point	Chert	1
S-59	2	Andrianovka	1973	B-1	Lower layer	Stemmed scraper	Andesite	1
S-59	2	Lopatka IV	1975			Stemmed scraper	Chert	1
S-59	2	Lopatka IV	1975			Flake	Obsidian	1
S-59	3	Lopatka IV	1975			End scraper	Obsidian	8
S-59	3	Lopatka IV	1975	G-2		Point	Obsidian	1
S-59	3	Lopatka IV	1975			Adze	Schist	1
S-59	3	Lopatka IV	1975			Utilized flake	Obsidian	5
S-59	3	Lopatka IV	1975			Retouched flake	Obsidian	4
S-59	3	Lopatka IV	1975			Flake	Obsidian	2
S-59	3	Lopatka IV	1975			Flake	Chalcedony	1
S-60	1	Lopatka II	1973	A-5		Core	Andesite	2
S-60	1	Lopatka II	1973	A-5		Flake	Andesite	10
S-60	2	Lopatka II	1973	A-3		Flake	Andesite	17
S-60	2	Lopatka II	1973	A-3		Core	Andesite	2
S-60	3	Lopatka II	1973	A-3		Flake	Andesite	20
S-60	3	Lopatka II	1973	A-3		Core	Andesite	5
S-60	4	Lopatka II	1973	A-3		Flake	Chalcedony	1
S-60	4	Lopatka II	1973	B-1		Flake	Andesite	79
S-60	4	Lopatka II	1973	B-1		Core	Andesite	2
S-60	4	Lopatka II	1973	B-1		Core	Chalcedony	1
S-60	4	Lopatka II	1973	B-1		Flake	Chert	3
S-60	5	Lopatka II	1973	G-4		Flake	Andesite	76
S-60	5	Lopatka II	1973	G-4		Core	Andesite	5
S-60	5	Lopatka II	1973	G-4		Core	Chert	1
S-60	5	Lopatka II	1973	G-4		Flake	Chert	4
S-60	5	Lopatka II	1973	G-4		Retouched flake	Obsidian	1
S-60	6	Lopatka II	1973	G-1		Flake	Andesite	9
S-60	6	Lopatka II	1973	G-1		Core	Andesite	4
S-60	6	Lopatka II	1973	G-1		Core	Chalcedony	1
S-60	7	Lopatka II	1973	A-4		Flake	Andesite	47
S-60	7	Lopatka II	1973	A-4		Core	Andesite	4
S-60	7	Lopatka II	1973	A-4		Flake	Shale	1
S-60	7	Lopatka II	1973	A-4		Flake	Chert	1
S-60	7	Lopatka II	1973	A-4		Flake	Chalcedony	1

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-60	7	Lopatka II	1973	A-4		End scraper	Obsidian	2
S-61	1	Lopatka IV	1975			Flake	Andesite	11
S-61	1	Lopatka IV	1975			Core	Andesite	1
S-62	1	Lopatka II	1973			Point	Obsidian	1
S-62	1	Lopatka II	1973			Point	Andesite	1
S-62	1	Lopatka II	1973			Retouched flake	Andesite	4
S-62	1	Lopatka II	1973			Core	Andesite	1
S-62	1	Lopatka II	1973			Flake	Chert	2
S-62	1	Lopatka II	1973			Flake	Shale	1
S-62	1	Lopatka IV	1975			Flake	Chert	5
S-62	1	Lopatka IV	1975			Flake	Chalcedony	1
S-62	1	Lopatka IV	1975			Flake	Obsidian	1
S-62	1	Lopatka IV	1975			Retouched flake	Andesite	3
S-62	1	Lopatka IV	1975			Flake	Tuff	1
S-62	2	Lopatka II	1973			Flake	Andesite	2
S-62	2	Lopatka II	1973			Flake	Obsidian	1
S-62	2	Lopatka II	1973			Retouched flake	Andesite	1
S-62	2	Lopatka II	1973			Core	Chert	1
S-62	2	Lopatka II	1973			Stemmed scraper	Chert	1
S-62	2	Lopatka II	1973			Stemmed scraper	Andesite	2
S-62	2	Lopatka II	1973			Point	Andesite	9
S-62	2	Lopatka II	1973			Point	Obsidian	6
S-62	2	Lopatka II	1973			Retouched flake	Chert	1
S-62	2	Lopatka II	1973			End scraper	Chert	1
S-62	2	Lopatka IV	1975			Flake	Shale	4
S-62	2	Lopatka IV	1975			Core	Shale	1
S-62	2	Lopatka IV	1975			Flake	Andesite	5
S-62	2	Lopatka IV	1975			Flake	Chert	3
S-62	2	Lopatka IV	1975			Retouched flake	Tuff	1
S-62	3	Lopatka II	1973			Point	Andesite	5
S-62	3	Lopatka II	1973			Point	Obsidian	10
S-62	3	Lopatka II	1973			Arrowhead	Obsidian	7
S-62	3	Lopatka II	1973			Stemmed scraper	Andesite	1
S-62	3	Lopatka II	1973			Retouched flake	Obsidian	2
S-62	3	Lopatka II	1973			Flake	Andesite	1
S-62	3	Lopatka II	1973			Point	Chert	2
S-62	3	Lopatka IV	1975			Point	Chert	3
S-62	3	Lopatka IV	1975			Point	Andesite	9
S-62	3	Lopatka IV	1975			Point	Obsidian	1
S-62	3	Lopatka IV	1975			Retouched flake	Chert	2
S-62	3	Lopatka IV	1975			Retouched flake	Obsidian	1
S-62	4	Lopatka II	1973			Handstone	Andesite	1
S-62	4	Lopatka II	1973			Side scraper	Andesite	1
S-62	4	Lopatka II	1973			Core	Andesite	2
S-62	4	Lopatka II	1973			Core	Chert	1
S-62	4	Lopatka IV	1975			Flake	Chert	10
S-62	5	Lopatka II	1973			Retouched flake	Andesite	5
S-62	5	Lopatka II	1973			Retouched flake	Chert	2
S-62	5	Lopatka II	1973			Flake	Chert	1
S-62	5	Lopatka II	1973			End scraper	Chert	1
S-62	5	Lopatka II	1973			Pebble	Tuff	1
S-62	5	Lopatka IV	1975			Core	Chert	3
S-62	5	Lopatka IV	1975			Flake	Chert	13
S-62	5	Lopatka IV	1975			Flake	Andesite	5
S-62	5	Lopatka IV	1975			Flake	Obsidian	2
S-62	6	Lopatka II	1973			Flake	Chert	8
S-62	6	Lopatka II	1973			Retouched flake	Chert	2
S-62	6	Lopatka II	1973			Point	Obsidian	1
S-62	6	Lopatka II	1973			Retouched flake	Obsidian	1
S-62	6	Lopatka II	1973			Point	Chert	1
S-62	6	Lopatka IV	1975			Flake	Chert	8
S-62	6	Lopatka IV	1975			Flake	Andesite	5
S-62	6	Lopatka IV	1975			Retouched flake	Andesite	1

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-62	6	Lopatka IV	1975			Retouched flake	Obsidian	1
S-62	6	Lopatka IV	1975			Core	Chalcedony	1
S-62	7	Lopatka II	1973			Point	Andesite	3
S-62	7	Lopatka II	1973			Point	Obsidian	2
S-62	7	Lopatka II	1973			Retouched flake	Andesite	4
S-62	7	Lopatka II	1973			Retouched flake	Chert	4
S-62	7	Lopatka II	1973			Retouched flake	Obsidian	1
S-62	7	Lopatka IV	1975			Core	Andesite	28
S-62	7	Lopatka IV	1975			Flake	Andesite	8
S-62	7	Lopatka IV	1975			Core	Chert	1
S-62	7	Lopatka IV	1975			Flake	Chert	1
S-62	8	Lopatka IV	1975			Core	Andesite	9
S-62	8	Lopatka IV	1975			Flake	Andesite	13
S-62	8	Lopatka IV	1975			Retouched flake	Chert	7
S-62	8	Lopatka IV	1975			Flake	Chert	21
S-62	8	Lopatka IV	1975			Retouched flake	Andesite	8
S-62	9	Lopatka IV	1975			Core	Andesite	4
S-62	9	Lopatka IV	1975			Flake	Andesite	31
S-62	9	Lopatka IV	1975			Retouched flake	Andesite	12
S-62	9	Lopatka IV	1975			Retouched flake	Chert	5
S-62	9	Lopatka IV	1975			Flake	Chert	11
S-62	9	Lopatka IV	1975			Core	Chert	1
S-63	1	Andrianovka	1973		Lower layer	Core	Chert	3
S-63	1	Andrianovka	1973		Lower layer	Flake	Chert	18
S-63	1	Andrianovka	1973		Lower layer	Core	Chalcedony	3
S-63	1	Andrianovka	1973		Lower layer	Flake	Chalcedony	57
S-63	1	Andrianovka	1973		Lower layer	Flake	Obsidian	41
S-63	1	Andrianovka	1973		Lower layer	Core	Obsidian	1
S-63	1	Andrianovka	1973		Lower layer	Chip	Obsidian	8
S-63	1	Andrianovka	1973		Lower layer	Chip	Chert	9
S-63	1	Andrianovka	1973	B-1	Lower layer	Chip	Chalcedony	3
S-63	2	Andrianovka	1973	B-1		Flake	Obsidian	244
S-63	2	Andrianovka	1973	B-1		Core	Obsidian	9
S-63	2	Andrianovka	1973	B-1		Chip	Obsidian	54
S-63	2	Andrianovka	1973	B-1		Flake	Andesite	35
S-63	2	Andrianovka	1973	B-1		Chip	Andesite	5
S-63	2	Andrianovka	1973	B-1		Flake	Chalcedony	1
S-63	2	Andrianovka	1973	B-1		Flake	Chert	1
S-63	3	Andrianovka	1973			Pebble	Andesite	2
S-63	4	Andrianovka	1973	B-1	Lower layer	Pebble	Andesite	5
S-63	4	Andrianovka	1973	B-1	Lower layer	Pebble	Chalcedony	1
S-63	4	Andrianovka	1973	B-1	Lower layer	Pebble	Pumice	1
S-63	5	Andrianovka	1973		Lower layer	Core	Chert	4
S-63	5	Andrianovka	1973		Lower layer	Flake	Chert	8
S-63	5	Andrianovka	1973			Core	Andesite	1
S-63	5	Andrianovka	1973			Core	Schist	1
S-63	5	Andrianovka	1973			Flake	Schist	2
S-63	5	Andrianovka	1973			Flake	Shale	1
S-63	5	Andrianovka	1973			Pebble	Tuff	2
S-63	5	Andrianovka	1973			Flake	Chalcedony	2
S-63	5	Andrianovka	1973			Flake	Obsidian	6
S-63	6	Andrianovka	1973			Core	Andesite	1
S-63	7	Andrianovka	1973			Flake	Andesite	3
S-63	7	Andrianovka	1973			Flake	Obsidian	17
S-63	7	Andrianovka	1973			Flake	Chert	12
S-63	7	Andrianovka	1973			Core	Chert	1
S-63	7	Andrianovka	1973			Flake	Chalcedony	4
S-64	1	Lopatka IV	1973	Ж-10		Flake	Chert	1
S-64	2	Lopatka IV	1973	O-9		Flake	Andesite	4
S-64	2	Lopatka IV	1973	O-9		Pebble	Pumice	1
S-64	3	Lopatka IV	1973	Д-7		Flake	Andesite	2
S-64	3	Lopatka IV	1973	B-7		Pebble	Pumice	1
S-64	3	Lopatka IV	1973	B-7		Flake	Andesite	2

Box	Sub-	Site name	Year	Unit	Level	Artifact class	Stone	Count
	ID							
S-64	4	Lopatka IV	1973	Г-7		Flake	Andesite	2
S-64	4	Lopatka IV	1973	Г-7		Core	Andesite	1
S-64	4	Lopatka IV	1973	Г-7		Retouched flake	Andesite	1
S-64	4	Lopatka IV	1973	Г-7		Flake	Chert	3
S-64	5	Lopatka IV	1973	М-5		Flake	Andesite	4
S-64	6	Lopatka IV	1973	В-10		Flake	Andesite	4
S-64	6	Lopatka IV	1973	В-10		Flake	Chert	1
S-64	7	Lopatka IV	1973	Л-12		Flake	Andesite	5
S-64	7	Lopatka IV	1973	Л-12		Core	Andesite	1
S-64	7	Lopatka IV	1973	Л-12		Core	Chert	2
S-64	7	Lopatka IV	1973	Л-12		Flake	Chert	1
S-64	8	Lopatka IV	1973	В-3		Core	Andesite	3
S-64	8	Lopatka IV	1973	В-3		Flake	Andesite	11
S-64	8	Lopatka IV	1973	В-3		Flake	Chert	3
S-64	9	Lopatka IV	1973			Core	Andesite	1
S-64	10	Lopatka IV	1973	В-1		Core	Andesite	1
S-64	10	Lopatka IV	1973	В-1		Flake	Andesite	6
S-64	10	Lopatka IV	1973	В-1		Core	Chalcedony	1
S-64	11	Lopatka	1973			Flake	Andesite	1
S-64	11	Lopatka	1973			Retouched flake	Chert	1
S-64	11	Lopatka	1973			Flake	Chert	1
S-64	11	Lopatka	1973			Retouched flake	Chert	2
S-64	11	Lopatka	1973			Pebble	Mudstone	1
S-64	12	Lopatka IV	1973	Б-4		Flake	Andesite	10
S-64	12	Lopatka IV	1973	Б-4		Core	Andesite	2
S-64	12	Lopatka IV	1973	Б-4		Flake	Chert	1
S-64	12	Lopatka IV	1973	Б-4		Core	Chert	1
S-65	1	Lopatka III	1975	2-3-5		Flake	Andesite	43
S-65	1	Lopatka III	1975	2-3-5		Core	Andesite	2
S-65	1	Lopatka III	1975	2-3-5		Flake	Shale	2
S-65	1	Lopatka III	1975	2-3-5		Core	Chalcedony	2
S-65	1	Lopatka III	1975	2-3-5		Flake	Chert	1
S-65	2	Lopatka III	1975	2-Д-5		Flake	Shale	3
S-65	2	Lopatka III	1975	2-Д-5		Flake	Andesite	25
S-65	2	Lopatka III	1975	2-Д-5		Pebble	Andesite	1
S-65	2	Lopatka III	1975	2-Д-5		Core	Chert	1
S-65	2	Lopatka III	1975	2-Д-5		Flake	Chert	10
S-65	3	Lopatka III	1975	2-К-4		Core	Andesite	3
S-65	3	Lopatka III	1975	2-К-4		Flake	Andesite	47
S-65	3	Lopatka III	1975	2-К-4		Flake	Chert	1
S-65	3	Lopatka III	1975	2-К-4		Flake	Chalcedony	1
S-65	3	Lopatka III	1975	2-А-4		Flake	Andesite	33
S-65	3	Lopatka III	1975	2-Д-4		Core	Andesite	6
S-65	4	Lopatka III	1975	2-А-5		Core	Chert	6
S-65	4	Lopatka III	1975	2-А-5		Flake	Siltstone	1
S-65	4	Lopatka III	1975	2-А-5		Core	Shale	1
S-65	4	Lopatka III	1975	2-А-5		Flake	Chert	15
S-65	4	Lopatka III	1975	2-А-5		Flake	Chalcedony	1
S-65	5	Lopatka III	1975	2-Ж-6		Flake	Andesite	37
S-65	5	Lopatka III	1975	2-Ж-6		Flake	Chert	6
S-65	5	Lopatka III	1975	2-Ж-6		Core	Andesite	1
S-65	5	Lopatka III	1975	2-Ж-6		Flake	Shale	1
S-66	1	Lopatka III	1973	И-4		Flake	Andesite	5
S-66	1	Lopatka III	1973	И-4		Core	Andesite	8
S-66	2	Lopatka III	1973	Е-6		Core	Andesite	3
S-66	3	Lopatka III	1973	Б-3		Core	Andesite	9
S-66	3	Lopatka III	1973	Б-3		Flake	Andesite	5
S-66	3	Lopatka III	1973	Б-3		Retouched flake	Andesite	4
S-66	3	Lopatka III	1973	Б-3		Flake	Chert	2
S-66	3	Lopatka III	1973	Б-3		Flake	Schist	1
S-66	3	Lopatka III	1973	Б-3		Flake	Chalcedony	1
S-66	4	Lopatka III	1973	Г-3		Core	Andesite	5
S-66	4	Lopatka III	1973	Г-3		Flake	Andesite	3

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-66	4	Lopatka III	1973	Г-3		Retouched flake	Andesite	1
S-66	4	Lopatka III	1973	Г-3		Flake	Obsidian	1
S-66	4	Lopatka III	1973	Г-3		Core	Andesite	11
S-66	4	Lopatka III	1973	Г-3		Flake	Andesite	9
S-66	5	Lopatka III	1973	Ж-4		Retouched flake	Andesite	1
S-66	5	Lopatka III	1973	Ж-4		Flake	Obsidian	1
S-66	5	Lopatka III	1973	Ж-4		Core	Chert	1
S-66	5	Lopatka III	1973	Ж-4		Flake	Chalcedony	1
S-66	6	Lopatka III	1973	Е-2		Flake	Andesite	5
S-66	6	Lopatka III	1973	Е-2		Core	Andesite	8
S-66	6	Lopatka III	1973	Е-2		Flake	Chert	25
S-66	6	Lopatka III	1973	Е-2		Flake	Granite	1
S-66	6	Lopatka III	1973	Е-2		Flake	Siltstone	1
S-66	6	Lopatka III	1973	Е-2		Flake	Shale	1
S-66	6	Lopatka III	1973	Е-2		Flake	Chalcedony	3
S-66	7	Lopatka III	1973	3-5		Core	Andesite	11
S-66	7	Lopatka III	1973	3-5		Flake	Obsidian	1
S-66	7	Lopatka III	1973	3-5		Flake	Chert	1
S-66	7	Lopatka III	1973	3-5		Retouched flake	Chert	1
S-67	1	Lopatka III	1975			Hummer	Andesite	1
S-67	2	Lopatka IV	1973			Retouched flake	Andesite	6
S-67	2	Lopatka IV	1973			Point	Andesite	2
S-67	2	Lopatka IV	1973			Point	Obsidian	3
S-67	2	Lopatka IV	1973			Drill	Obsidian	1
S-67	2	Lopatka IV	1973			Arrowhead	Obsidian	3
S-67	2	Lopatka IV	1973			Point	Chert	1
S-68	1	Lopatka I	1975			Core	Chert	1
S-68	1	Lopatka I	1975			Flake	Chert	3
S-68	2	Lopatka I	1975			Retouched flake	Andesite	5
S-68	2	Lopatka I	1975			End scraper	Obsidian	1
S-68	2	Lopatka I	1975			Retouched flake	Chert	1
S-68	2	Lopatka I	1975			Retouched flake	Chalcedony	4
S-68	3	Lopatka I	1975			Pebble	Andesite	2
S-68	3	Lopatka I	1975			Pebble	Chert	1
S-68	3	Lopatka I	1975			Pebble	Chalcedony	1
S-68	3	Lopatka I	1975			Hummer	Andesite	1
S-68	3	Lopatka I	1975			Stone lamp	Tuff	1
S-68	4	Lopatka I	1975			Flake	Andesite	7
S-68	4	Lopatka I	1975			Retouched flake	Andesite	3
S-68	4	Lopatka I	1975			Core	Andesite	2
S-68	4	Lopatka I	1975			Core	Shale	1
S-68	4	Lopatka I	1975			Flake	Obsidian	3
S-68	5	Lopatka I	1975			Flake	Chert	14
S-68	5	Lopatka I	1975			Core	Chert	3
S-68	5	Lopatka I	1975			Flake	Siltstone	1
S-68	5	Lopatka I	1975			Flake	Mudstone	1
S-68	5	Lopatka I	1975			Retouched flake	Chert	1
S-68	5	Lopatka I	1975			Retouched flake	Chalcedony	2
S-68	5	Lopatka I	1975			Flake	Chalcedony	2
S-68	5	Lopatka I	1975			End scraper	Chert	7
S-68	6	Lopatka I	1975			Flake	Chert	1
S-68	7	Lopatka I	1975			Core	Chert	1
S-68	7	Lopatka I	1975			Point	Chalcedony	1
S-68	7	Lopatka I	1975			Retouched flake	Obsidian	5
S-69	1	Lopatka (road)	1972			Core	Chert	3
S-69	1	Lopatka (road)	1972			Flake	Chert	15
S-69	1	Lopatka (road)	1972			Core	Andesite	1
S-69	1	Lopatka (road)	1972			Flake	Obsidian	3
S-69	1	Lopatka (road)	1972			Flake	Chalcedony	9
S-69	1	Lopatka (road)	1972			Retouched flake	Obsidian	1
S-69	1	Lopatka (road)	1972			Flake	Andesite	1
S-69	1	Lopatka (road)	1972			Arrowhead	Chert	1
S-69	2	Lopatka (cape)	1972			Flake	Andesite	6

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-69	2	Lopatka (cape)	1972			Core	Andesite	1
S-69	2	Lopatka (cape)	1972			Flake	Chert	3
S-69	2	Lopatka (cape)	1972			Chip	Obsidian	1
S-69	3	Khalaktirka	1972		Surface collection	Flake	Obsidian	18
S-69	3	Khalaktirka	1972		Surface collection	Core	Shale	2
S-69	3	Khalaktirka	1972		Surface collection	Flake	Chert	1
S-69	3	Khalaktirka	1972		Surface collection	Retouched flake	Obsidian	3
S-69	3	Khalaktirka	1972		Surface collection	Chip	Obsidian	1
S-69	3	Khalaktirka	1972		Surface collection	Chip	Chert	1
S-69	4	Khalaktirka	1972		Surface collection	Flake	Obsidian	7
S-69	4	Khalaktirka	1972		Surface collection	Retouched flake	Obsidian	1
S-69	4	Khalaktirka	1972		Surface collection	Chip	Obsidian	1
S-69	4	Khalaktirka	1972		Surface collection	End scraper	Chert	1
S-69	4	Khalaktirka	1972		Surface collection	Core	Chert	2
S-69	4	Khalaktirka	1972		Surface collection	Flake	Chert	2
S-69	4	Khalaktirka	1972		Surface collection	Flake	Chalcedony	7
S-69	4	Khalaktirka	1972		Surface collection	Chip	Chalcedony	1
S-70	1	Lopatka II	1973			Core	Andesite	4
S-70	1	Lopatka II	1973			Pebble	Andesite	1
S-70	1	Lopatka II	1973			Retouched flake	Chert	3
S-70	1	Lopatka II	1973			Retouched flake	Andesite	4
S-70	1	Lopatka II	1973			Retouched flake	Chalcedony	1
S-70	1	Lopatka II	1973			Point	Chert	1
S-70	1	Lopatka II	1973			Retouched flake	Obsidian	1
S-70	1	Lopatka II	1973			Stemmed scraper	Obsidian	1
S-70	2	Lopatka II	1973			Flake	Andesite	5
S-70	2	Lopatka II	1973			Core	Andesite	3
S-70	2	Lopatka II	1973			Core	Chalcedony	1
S-71	1	Lopatka II	1973	1-Г-1		Flake	Andesite	37
S-71	1	Lopatka II	1973	1-Г-1		Core	Andesite	4
S-71	1	Lopatka II	1973	1-Г-1		Retouched flake	Chert	1
S-71	1	Lopatka II	1973	1-Г-1		Core	Chert	1
S-71	1	Lopatka II	1973	1-Г-1		Flake	Chert	1
S-71	2	Lopatka II	1973	1-Г-2		Flake	Andesite	30
S-71	2	Lopatka II	1973	1-Г-2		Core	Andesite	6
S-71	2	Lopatka II	1973	1-Г-2		Flake	Chert	2
S-71	2	Lopatka II	1973	1-Г-2		Retouched flake	Chert	1
S-71	3	Lopatka II	1973	1-А-1		Core	Andesite	1
S-71	3	Lopatka II	1973	1-А-1		Flake	Andesite	5
S-71	4	Lopatka II	1973	1-А-4		Flake	Andesite	22
S-71	4	Lopatka II	1973	1-А-4		Core	Andesite	2
S-71	5	Lopatka II	1973	1-А-1		Flake	Andesite	21
S-71	5	Lopatka II	1973	1-А-1		Core	Andesite	2
S-72	1	Lopatka IV	1973	3-3		Core	Andesite	2
S-72	1	Lopatka IV	1973	3-3		Flake	Andesite	1

Box	Sub-	Site name	Year	Unit	Level	Artifact class	Stone	Count
	ID							
S-72	1	Lopatka IV	1973	3-3		Core	Chalcedony	1
S-72	2	Lopatka IV	1973	A-7		Core	Andesite	3
S-72	2	Lopatka IV	1973	A-7		Flake	Andesite	4
S-72	2	Lopatka IV	1973	A-7		Core	Chert	1
S-72	2	Lopatka IV	1973	A-7		Core	Chalcedony	1
S-72	2	Lopatka IV	1973	A-7		Flake	Chert	2
S-72	3	Lopatka IV	1973			Flake	Obsidian	1
S-72	3	Lopatka IV	1973			Arrowhead	Obsidian	1
S-72	3	Lopatka IV	1973			Retouched flake	Obsidian	3
S-72	3	Lopatka IV	1973			Retouched flake	Chert	1
S-72	4	Lopatka IV	1973			Flake	Andesite	20
S-72	4	Lopatka IV	1973			Retouched flake	Andesite	1
S-72	4	Lopatka IV	1973			Flake	Obsidian	1
S-72	4	Lopatka IV	1973			Flake	Chert	3
S-72	5	Lopatka IV	1973			Flake	Andesite	5
S-72	5	Lopatka IV	1973			Flake	Obsidian	1
S-72	5	Lopatka IV	1973			Flake	Chert	1
S-72	5	Lopatka IV	1973			Retouched flake	Andesite	1
S-72	6	Lopatka IV	1973			Core	Andesite	1
S-72	6	Lopatka IV	1973			Flake	Andesite	2
S-72	6	Lopatka IV	1973			Retouched flake	Andesite	11
S-72	6	Lopatka IV	1973			Retouched flake	Chert	2
S-72	7	Lopatka IV	1973			Retouched flake	Andesite	5
S-72	7	Lopatka IV	1973			Core	Andesite	1
S-72	7	Lopatka IV	1973			Utilized flake	Obsidian	1
S-72	8	Lopatka IV	1973			Point	Andesite	7
S-72	8	Lopatka IV	1973			Flake	Andesite	1
S-72	8	Lopatka IV	1973			Retouched flake	Andesite	5
S-72	8	Lopatka IV	1973			Arrowhead	Obsidian	1
S-72	9	Lopatka IV	1973			Flake	Andesite	4
S-72	9	Lopatka IV	1973			Retouched flake	Andesite	12
S-72	9	Lopatka IV	1973			Core	Andesite	2
S-72	9	Lopatka IV	1973			Retouched flake	Obsidian	2
S-72	9	Lopatka IV	1973			Flake	Obsidian	2
S-72	9	Lopatka IV	1973			Retouched flake	Chert	4
S-72	9	Lopatka IV	1973			Flake	Chert	1
S-73	1	Lopatka IV	1973	B-4		Core	Chert	2
S-73	1	Lopatka IV	1973	B-4		Core	Andesite	1
S-73	1	Avacha	1973			Weight	Andesite	2
S-73	2	Lopatka IV	1973			Core	Andesite	12
S-73	2	Lopatka IV	1973			Flake	Andesite	5
S-73	2	Lopatka IV	1973			Pebble	Andesite	1
S-73	2	Lopatka IV	1973			Core	Chert	4
S-73	2	Lopatka IV	1973			Flake	Schist	1
S-73	2	Lopatka IV	1973			Hummer	Andesite	1
S-73	2	Avacha	1973			Weight	Andesite	2
S-74	1	Yavino 1	1977			Anvil stone	Andesite	1
S-74	2	Yavino 1	1977			Flake	Obsidian	3
S-74	2	Yavino 1	1977			Core	Andesite	6
S-74	2	Yavino 1	1977			Flake	Andesite	7
S-74	2	Yavino 1	1977			Flake	Chert	1
S-74	3	Yavino 1	1977			Flake	Chalcedony	2
S-74	3	Yavino 1	1977			Flake	Andesite	7
S-74	3	Yavino 1	1977			Flake	Chert	4
S-75	1	Yavino 9	1977		Surface collection	Core	Andesite	6
S-75	1	Yavino 9	1977		Surface collection	Flake	Andesite	6
S-75	1	Yavino 9	1977		Surface collection	Core	Chert	1

Box ID	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-75	1	Yavino 9	1977		Surface collection	Flake	Chert	2
S-75	2	Yavino 9	1977			Core	Andesite	1
S-75	2	Yavino 9	1977			Flake	Andesite	5
S-75	2	Yavino 9	1977			Retouched flake	Andesite	2
S-75	2	Yavino 9	1977			Flake	Obsidian	2
S-75	2	Yavino 9	1977			Utilized flake	Obsidian	1
S-75	2	Yavino 9	1977			Core	Obsidian	1
S-75	3	Yavino 9	1977		Surface collection	Flake	Obsidian	65
S-75	3	Yavino 9	1977		Surface collection	Flake	Andesite	99
S-75	3	Yavino 9	1977		Surface collection	Flake	Chert	7
S-75	3	Yavino 9	1977		Surface collection	Arrowhead	Andesite	1
S-75	3	Yavino 9	1977		Surface collection	Retouched flake	Andesite	2
S-75	3	Yavino 9	1977		Surface collection	Core	Andesite	2
S-75	3	Yavino 9	1977		Surface collection	Flake	Chalcedony	1
S-75	4	Yavino 9	1977			Flake	Andesite	7
S-75	4	Yavino 9	1977			Flake	Chert	1
S-75	4	Yavino 9	1977			Retouched flake	Obsidian	3
S-75	4	Yavino 9	1977			Retouched flake	Andesite	2
S-75	4	Yavino 9	1977			Point	Andesite	2
S-75	5	Yavino 9	1977			Flake	Andesite	33
S-75	5	Yavino 9	1977			Flake	Obsidian	18
S-75	5	Yavino 9	1977			Flake	Chert	1
S-75	5	Yavino 9	1977			Core	Chert	1
S-75	5	Yavino 9	1977			Wedging piece	Obsidian	1
S-76	1	Lopatka I	1972			Stone lamp	Tuff	1
S-77	1	Lopatka I	1975			Flake	Andesite	12
S-77	1	Lopatka I	1975			Core	Andesite	1
S-77	1	Lopatka I	1975			Retouched flake	Andesite	1
S-77	1	Lopatka I	1975			Core	Chert	3
S-77	1	Lopatka I	1975			Retouched flake	Chert	1
S-77	1	Lopatka I	1975			Flake	Chert	9
S-77	1	Lopatka I	1975			Core	Shale	1
S-77	1	Lopatka I	1975			Stemmed scraper	Chalcedony	1
S-77	1	Lopatka I	1975			Retouched flake	Chalcedony	1
S-77	1	Lopatka I	1975			Flake	Obsidian	1
S-77	1	Lopatka I	1975			Flake	Chalcedony	1
S-77	2	Lopatka I	1975			Flake	Obsidian	3
S-77	2	Lopatka I	1975			Flake	Schist	1
S-77	2	Lopatka I	1975			Flake	Chalcedony	1
S-77	2	Lopatka I	1975			Flake	Chert	1
S-77	2	Lopatka I	1975			Flake	Shale	1
S-77	3	Lopatka I	1975			Flake	Chert	30
S-77	3	Lopatka I	1975			Flake	Andesite	4
S-77	3	Lopatka I	1975			Flake	Obsidian	29
S-77	3	Lopatka I	1975			Chip	Chert	1
S-77	3	Lopatka I	1975			Core	Chert	1
S-77	3	Lopatka I	1975			Flake	Tuff	1
S-77	3	Lopatka I	1975			Flake	Chalcedony	3
S-77	4	Lopatka I	1975			Core	Chert	4
S-77	5	Lopatka I	1975			Flake	Chert	6
S-77	5	Lopatka I	1975			Flake	Obsidian	1
S-77	6	Lopatka I	1975			Flake	Andesite	1

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-77	6	Lopatka I	1975			Flake	Siltstone	1
S-77	6	Lopatka I	1975			Point	Chert	1
S-77	6	Lopatka I	1975			Core	Chert	1
S-77	6	Lopatka I	1975			Stemmed scraper	Chert	1
S-77	6	Lopatka I	1975			Retouched flake	Obsidian	2
S-77	6	Lopatka I	1975			Retouched flake	Chert	1
S-77	7	Lopatka I	1975			Core	Chert	3
S-77	7	Lopatka I	1975			Retouched flake	Chert	1
S-77	7	Lopatka I	1975			Flake	Shale	1
S-78	1	Yavino 9	1977			Adze	Schist	2
S-78	1	Yavino 9	1977			Retouched flake	Obsidian	2
S-78	1	Yavino 9	1975			Flake	Obsidian	4
S-78	1	Yavino 9	1975			Arrowhead	Obsidian	1
S-78	1	Yavino 9	1975			Retouched flake	Andesite	1
S-78	1	Yavino 9	1975			Flake	Andesite	1
S-78	1	Yavino 2	1975			Weight	Andesite	1
S-78	1	Yavino 2	1975			Bead	Chert	1
S-78	1	Yavino 2	1975			End scraper	Obsidian	1
S-78	1	Yavino 2	1975			Flake	Andesite	1
S-78	1	Yavino 2	1975			Retouched flake	Andesite	1
S-78	1	Yavino 8	1975			End scraper	Obsidian	2
S-78	1	Yavino 8	1975			Drill	Obsidian	1
S-78	1	Yavino 8	1975			Retouched flake	Obsidian	1
S-78	1	Yavino 8	1975			Point	Obsidian	1
S-78	1	Yavino 8	1975			Stemmed scraper	Obsidian	1
S-78	1	Yavino 8	1975			Adze	Schist	2
S-78	1	Yavino 8	1975			Stemmed scraper	Chert	1
S-78	1	Yavino 8	1975			Stemmed scraper	Andesite	1
S-79	1	Lopatka II	1973	1-A-3		Core	Andesite	8
S-79	1	Lopatka II	1973	1-A-3		Flake	Andesite	104
S-79	1	Lopatka II	1973	1-A-3		Core	Chert	1
S-79	1	Lopatka II	1973	1-A-3		Wedging piece	Chalcedony	3
S-79	1	Lopatka II	1973	1-A-3		End scraper	Obsidian	1
S-79	1	Lopatka II	1973	1-A-3		Flake	Chalcedony	2
S-79	2	Lopatka II	1973	1-B-2		Hummer	Andesite	1
S-79	2	Lopatka II	1973	1-B-2		Core	Andesite	4
S-79	2	Lopatka II	1973	1-B-2		Flake	Andesite	14
S-79	2	Lopatka II	1973	1-B-2		Core	Chalcedony	1
S-79	2	Lopatka II	1973	1-B-2		Pebble	Andesite	1
S-79	3	Lopatka II	1973	1-G-2		Core	Chert	1
S-79	3	Lopatka II	1973	1-G-2		Core	Andesite	2
S-79	3	Lopatka II	1973	1-G-2		Flake	Andesite	66
S-79	3	Lopatka II	1973	1-G-2		Core	Chalcedony	1
S-79	3	Lopatka II	1973	1-G-2		Flake	Chalcedony	1
S-79	3	Lopatka II	1973	1-G-2		Flake	Chert	2
S-79	4	Lopatka II	1973	1-B-2		Core	obsidian	7
S-79	4	Lopatka II	1973	1-B-2		Flake	Andesite	34
S-79	4	Lopatka II	1973	1-B-2		Retouched flake	Andesite	1
S-79	4	Lopatka II	1973	1-B-2		Core	Shale	1
S-79	4	Lopatka II	1973	1-B-5		Core	Andesite	4
S-79	4	Lopatka II	1973	1-B-2		Flake	Andesite	38
S-79	4	Lopatka II	1973	1-B-2		Core	Shale	1
S-79	4	Lopatka II	1973	1-B-2		Core	Chalcedony	1
S-79	4	Lopatka II	1973	1-B-2		Pebble	Chalcedony	1
S-79	5	Lopatka II	1973	1-A-3		Core	Andesite	4
S-79	5	Lopatka II	1973	1-A-3		Flake	Andesite	57
S-79	5	Lopatka II	1973	1-A-3		Pebble	Andesite	1
S-79	5	Lopatka II	1973	1-A-3		Flake	Chalcedony	1
S-79	5	Lopatka II	1973	1-A-3		Flake	Chert	1
S-79	5	Lopatka II	1973	1-A-3		Flake	Obsidian	1
S-80	1	Lopatka II-III	1973	2-II-6		Core	Andesite	6
S-80	1	Lopatka II-III	1973	2-II-6		Flake	Andesite	24
S-80	2	Lopatka II-III	1973	2-II-7		Core	Andesite	1

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-80	2	Lopatka II-III	1973	2-И-7		Flake	Andesite	16
S-80	3	Lopatka II-III	1973	A-1	2	Core	Andesite	3
S-80	3	Lopatka II-III	1973	A-1	2	Flake	Andesite	21
S-80	3	Lopatka II-III	1973	A-1	2	Flake	Chert	1
S-80	4	Lopatka II-III	1973	Ж-4	2	Core	Andesite	2
S-80	4	Lopatka II-III	1973	Ж-4	2	Flake	Andesite	33
S-80	4	Lopatka II-III	1973	Ж-4	2	Flake	Chert	2
S-80	5	Lopatka II-III	1973	2-Ж-7		Core	Andesite	3
S-80	5	Lopatka II-III	1973	2-Ж-7		Flake	Andesite	13
S-80	6	Lopatka II-III	1973	2-К-5		Core	Andesite	2
S-80	6	Lopatka II-III	1973	2-К-5		Flake	Andesite	7
S-80	6	Lopatka II-III	1973	2-К-5		Flake	Chert	1
S-80	7	Lopatka II	1973	СК3		Core	Andesite	4
S-80	8	Lopatka II-III	1973	Д-7		Flake	Andesite	10
S-80	8	Lopatka II-III	1973	Д-7		Flake	Schist	2
S-80	8	Lopatka II-III	1973	Д-7		Flake	Chert	5
S-80	9	Lopatka II-III	1973	2-И-6		Core	Andesite	6
S-80	9	Lopatka II-III	1973	2-И-6		Core	Shale	1
S-80	9	Lopatka II-III	1973	2-И-6		Core	Chalcedony	1
S-80	9	Lopatka II-III	1973	2-И-6		Flake	Andesite	42
S-82	1	Andrianovka	1975			Flake	Shale	9
S-82	1	Andrianovka	1975			Flake	Chalcedony	3
S-82	1	Andrianovka	1975			Flake	Andesite	1
S-82	1	Andrianovka	1975			Flake	Chert	1
S-82	1	Andrianovka	1975			Flake	Obsidian	6
S-82	1	Andrianovka	1975			Chip	Obsidian	2
S-82	2	Andrianovka	1975			Flake	Andesite	8
S-82	2	Andrianovka	1975			Flake	Obsidian	1
S-82	2	Andrianovka	1975			Flake	Chert	1
S-82	3	Andrianovka	1975			Flake	Andesite	7
S-82	3	Andrianovka	1975			Core	Andesite	8
S-82	3	Andrianovka	1975			Retouched flake	Andesite	1
S-84	1	Andrianovka	1975			Stone lamp	Andesite	1
S-84	1	Andrianovka	1975			Pebble	Andesite	4
S-84	1	Andrianovka	1975			Core	Andesite	3
S-84	1	Andrianovka	1975			Flake	Andesite	1
S-86	1	Lopatka II-III	1973	2-Г-3		Pebble	Pumice	2
S-86	1	Lopatka II-III	1973	Г-5		Core	Chert	1
S-86	1	Lopatka II-III	1973	2-Д-4		Core	Chert	1
S-86	1	Lopatka II-III	1973	Д-4		Core	Chert	1
S-86	1	Lopatka II-III	1973	Д-6		Retouched flake	Andesite	1
S-86	1	Lopatka II-III	1973	2-В-5		Core	Andesite	1
S-86	1	Lopatka II-III	1973			Flake	Andesite	1
S-86	1	Lopatka II-III	1973	2-В-5		Flake	Chert	1
S-86	1	Lopatka II-III	1973	А-2		Core	Chert	1
S-86	1	Lopatka II-III	1973	Д-6		Retouched flake	Obsidian	2
S-86	1	Lopatka II-III	1973	Г-6		Core	Andesite	1
S-86	1	Lopatka II-III	1973	СК2 Е4		Hummer	Andesite	1
S-86	1	Lopatka II-III	1973			Core	Chalcedony	1
S-86	1	Lopatka II-III	1973	СК2 Ж6		Retouched flake	Andesite	1
S-86	1	Lopatka II-III	1973	СК2 Е4		Retouched flake	Andesite	1
S-86	1	Lopatka II-III	1973	СК2 В7		Retouched flake	Andesite	1
S-87	1	Lopatka III	1973	Ж-2		Flake	Andesite	4
S-87	1	Lopatka III	1973	Ж-2		Core	Andesite	4
S-87	1	Lopatka III	1973	И-2		Flake	Andesite	1
S-87	1	Lopatka III	1973	И-2		Flake	Chert	1
S-87	2	Lopatka III	1973	З-1		Flake	Tuff	1
S-87	2	Lopatka III	1973	З-1		Flake	Schist	1
S-87	2	Lopatka III	1973	З-1		Core	Andesite	4
S-87	3	Lopatka III	1973	Г-8		Core	Andesite	7
S-87	3	Lopatka III	1973	Г-8		Flake	Andesite	1
S-87	3	Lopatka III	1973	Г-8		Flake	Chert	1
S-87	3	Lopatka III	1973	Г-8		Retouched flake	Obsidian	1

Box	Sub-	Site name	Year	Unit	Level	Artifact class	Stone	Count
	ID							
S-87	4	Lopatka III	1973	Д-2		Flake	Andesite	5
S-87	4	Lopatka III	1973	Д-2		Core	Andesite	9
S-87	4	Lopatka III	1973	Д-2		Flake	Shale	1
S-87	4	Lopatka III	1973	Д-2		Retouched flake	Chert	2
S-87	5	Lopatka III	1973	3-3		Core	Andesite	8
S-87	5	Lopatka III	1973	3-3		Flake	Andesite	2
S-87	5	Lopatka III	1973	3-3		Flake	Chert	3
S-87	5	Lopatka III	1973	3-3		Flake	Chalcedony	1
S-87	5	Lopatka III	1973	3-3		Core	Chalcedony	1
S-87	6	Lopatka III	1973	M-6		Core	Andesite	9
S-87	6	Lopatka III	1973	M-6		Flake	Andesite	7
S-87	6	Lopatka III	1973	M-6		Flake	Shale	1
S-87	6	Lopatka III	1973	M-6		Flake	Chert	2
S-87	6	Lopatka III	1973	M-6		Core	Chalcedony	1
S-87	6	Lopatka III	1973	Ж-2		Core	Andesite	11
S-87	6	Lopatka III	1973	Ж-2		Flake	Andesite	6
S-87	6	Lopatka III	1973	Ж-2		Core	Andesite	10
S-87	6	Lopatka III	1973	Ж-2		Flake	Chert	3
S-88	1	Lopatka III	1973	3-5		Flake	Andesite	3
S-88	1	Lopatka IV	1973	3-5		Core	Andesite	9
S-88	1	Lopatka IV	1973	3-5		Retouched flake	Andesite	2
S-88	2	Lopatka IV	1973	3-8		Core	Andesite	6
S-88	2	Lopatka IV	1973	3-8		Retouched flake	Andesite	1
S-88	2	Lopatka IV	1973	3-8		Flake	Andesite	3
S-88	2	Lopatka IV	1973	3-8		Flake	Chert	2
S-88	2	Lopatka IV	1973	3-8		Flake	Schist	1
S-88	3	Lopatka IV	1973	B-3		Flake	Andesite	6
S-88	3	Lopatka IV	1973	B-3		Core	Andesite	5
S-88	3	Lopatka IV	1973	B-3		Flake	Chalcedony	1
S-88	3	Lopatka IV	1973	B-3		Flake	Chert	2
S-88	4	Lopatka IV	1973	E-4		Flake	Andesite	9
S-88	4	Lopatka IV	1973	E-4		Core	Andesite	8
S-88	4	Lopatka IV	1973	E-4		Flake	Chert	9
S-88	5	Lopatka IV	1973	E-2		Flake	Andesite	8
S-88	5	Lopatka IV	1973	E-2		Core	Andesite	1
S-88	6	Lopatka IV	1973	Д-4		Flake	Andesite	1
S-88	6	Lopatka IV	1973	Д-4		Core	Andesite	5
S-88	7	Lopatka IV	1973	Д-7		Flake	Andesite	2
S-88	7	Lopatka IV	1973	Д-7		Core	Andesite	5
S-88	7	Lopatka IV	1973	Д-7		Flake	Chert	1
S-89	1	Siyushk 1	1972			Weight	Schist	1
S-89	1	Siyushk 1	1972			Stone lamp	Andesite	1
S-89	2	Siyushk 1	1972			Pebble	Andesite	1
S-89	2	Siyushk 1	1972			Flake	Andesite	5
S-89	2	Siyushk 1	1972			Flake	Chert	5
S-89	2	Siyushk 1	1972			Stemmed scraper	Chert	1
S-89	2	Siyushk 1	1972			Core	Chert	3
S-89	2	Siyushk 1	1972			Adze	Schist	2
S-89	2	Siyushk 1	1972			Grinding stone	Tuff	2
S-89	2	Siyushk 1	1972			Retouched flake	Obsidian	7
S-89	2	Siyushk 1	1972			Point	Obsidian	1
S-89	2	Siyushk 1	1972			Retouched flake	Chert	1
S-89	2	Siyushk 1	1972			Retouched flake	Chalcedony	2
S-89	2	Siyushk 1	1972			Flake	Chalcedony	19
S-89	3	Siyushk 1	1972			Flake	Chert	90
S-89	3	Siyushk 1	1972			Flake	Andesite	16
S-89	3	Siyushk 1	1972			Flake	Chalcedony	30
S-89	3	Siyushk 1	1972			Flake	Obsidian	24
S-89	3	Siyushk 1	1972			Pebble	Pumice	1
S-89	3	Siyushk 1	1972			Core	Siltstone	1
S-89	3	Siyushk 1	1972			Core	Chert	1
S-89	3	Siyushk 1	1972			Pebble	Chalcedony	1
S-89	3	Siyushk 1	1972			Chip	Obsidian	1

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-89	3	Siyushk 1	1972			Chip	Chert	1
S-90	1	Lopatka IV	1973			Core	Andesite	1
S-91	1	Zhupanovo	1979			Flake	Chert	138
S-91	1	Zhupanovo	1979			Retouched flake	Chert	62
S-91	1	Zhupanovo	1979			Core	Chert	3
S-91	1	Zhupanovo	1979			Flake	Obsidian	1
S-91	1	Zhupanovo	1979			Flake	Chalcedony	2
S-91	2	Zhupanovo	1980			Flake	Chert	11
S-91	2	Zhupanovo	1980			Retouched flake	Chert	28
S-91	2	Zhupanovo	1980			Core	Chert	1
S-91	2	Zhupanovo	1980			Flake	Obsidian	6
S-91	2	Zhupanovo	1980			Retouched flake	Obsidian	1
S-91	2	Zhupanovo	1980			Flake	Chalcedony	22
S-91	2	Zhupanovo	1980			Retouched flake	Chalcedony	1
S-91	3	Zhupanovo	1979			Flake	Chalcedony	90
S-91	3	Zhupanovo	1979			Retouched flake	Chalcedony	2
S-91	3	Zhupanovo	1979			Core	Chalcedony	5
S-91	3	Zhupanovo	1979			Pebble	Chalcedony	1
S-91	4	Zhupanovo	1979			Flake	Andesite	11
S-91	4	Zhupanovo	1979			Retouched flake	Andesite	1
S-91	4	Zhupanovo	1979			Flake	Andesite	3
S-91	4	Zhupanovo	1979			Flake	Chert	11
S-91	4	Zhupanovo	1979			Retouched flake	Chert	8
S-91	4	Zhupanovo	1979			Flake	Obsidian	8
S-91	4	Zhupanovo	1979			Retouched flake	Obsidian	3
S-91	4	Zhupanovo	1979			Flake	Chalcedony	1
S-91	4	Zhupanovo	1979			Flake	Schist	1
S-92	1	Lopatka I	1973			Flake	Andesite	4
S-92	1	Lopatka I	1973			Flake	Obsidian	1
S-92	1	Lopatka I	1973			Core	Andesite	4
S-92	1	Lopatka I	1973			Flake	Chert	4
S-92	2	Lopatka	1972			Adze	Andesite	1
S-92	3	Lopatka I	1973			Flake	Andesite	4
S-92	3	Lopatka I	1973			Flake	Andesite	3
S-92	3	Lopatka I	1973			Flake	Shale	2
S-92	3	Lopatka I	1973			Retouched flake	Chert	1
S-92	4	Lopatka I	1973			Retouched flake	Andesite	1
S-92	4	Lopatka I	1973			Core	Andesite	1
S-92	4	Lopatka I	1973			End scraper	Chert	1
S-92	4	Lopatka I	1973			Point	Andesite	1
S-92	4	Lopatka I	1973			Arrowhead	Andesite	2
S-92	5	Lopatka I	1973			Flake	Andesite	2
S-92	5	Lopatka I	1973			Adze	Schist	1
S-93	1	Petropavlovsk				Adze	Schist	1
S-93	2	Petropavlovsk				Flake	Andesite	1
S-93	2	Petropavlovsk				Retouched flake	Andesite	1
S-93	2	Petropavlovsk				Adze	Schist	1
S-93	2	Petropavlovsk				Flake	Obsidian	8
S-93	2	Petropavlovsk				Retouched flake	Obsidian	3
S-93	2	Petropavlovsk				Point	Obsidian	2
S-93	2	Petropavlovsk				End scraper	Obsidian	1
S-93	2	Petropavlovsk				Utilized flake	Obsidian	1
S-93	2	Petropavlovsk				End scraper	Chalcedony	1
S-93	2	Petropavlovsk				Flake	Chalcedony	3
S-93	2	Petropavlovsk				Core	Chalcedony	2
S-93	3	Elizovo				Flake	Andesite	1
S-93	3	Elizovo				Flake	Siltstone	1
S-93	3	Elizovo				Retouched flake	Chert	1
S-93	3	Elizovo				Point	Shale	1
S-93	4	Elizovo				Flake	Andesite	2
S-93	4	Elizovo				Flake	Shale	1
S-93	4	Elizovo				End scraper	Obsidian	1
S-93	4	Elizovo				Core	Andesite	1

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-93	5	Elizovo				Retouched flake	Obsidian	1
S-93	5	Elizovo				Adze	Schist	1
S-93	5	Elizovo				Flake	Andesite	1
S-93	6	Elizovo				Flake	Andesite	4
S-93	6	Elizovo				Point	Chert	2
S-93	7	Elizovo				Stone lamp	Andesite	1
S-94	1	Zhupanovo	1979			Grinding stone	Tuff	1
S-94	1	Zhupanovo	1980			Float	Pumice	1
S-94	1	Zhupanovo	1979			Pebble	Pumice	1
S-94	1	Zhupanovo	1980			Flake	Andesite	1
S-94	1	Zhupanovo	1980			Pebble	Andesite	4
S-94	2	Zhupanovo	1979			Hummer	Andesite	3
S-94	2	Zhupanovo	1979			Core	Andesite	1
S-94	3	Zhupanovo	1979&80			Arrowhead	Andesite	8
S-94	3	Zhupanovo	1979&80			Point	Andesite	28
S-94	3	Zhupanovo	1979&80			Arrowhead	Obsidian	7
S-94	3	Zhupanovo	1979&80			Point	Obsidian	2
S-94	3	Zhupanovo	1979&80			Point	Chert	2
S-94	3	Zhupanovo	1979&80			Arrowhead	Chert	2
S-94	3	Zhupanovo	1979&80			Arrowhead	Chalcedony	2
S-94	4	Zhupanovo	1979&80			End scraper	Chalcedony	21
S-94	4	Zhupanovo	1979&80			End scraper	Andesite	6
S-94	4	Zhupanovo	1979&80			End scraper	Chert	1
S-94	4	Zhupanovo	1979&80			Retouched flake	Chalcedony	8
S-94	5	Zhupanovo	1979&80			Flake	Chalcedony	5
S-94	5	Zhupanovo	1979&80			Retouched flake	Chalcedony	2
S-94	5	Zhupanovo	1979&80			End scraper	Chalcedony	1
S-94	5	Zhupanovo	1979&80			Arrowhead	Chert	1
S-94	5	Zhupanovo	1979&80			Point	Chert	2
S-94	6	Zhupanovo	1979&80			Retouched flake	Chalcedony	8
S-94	6	Zhupanovo	1979&80			Flake	Chalcedony	33
S-94	6	Zhupanovo	1979&80			Flake	Chert	2
S-94	6	Zhupanovo	1979&80			Retouched flake	Andesite	5
S-94	6	Zhupanovo	1979&80			Flake	Andesite	2
S-94	6	Zhupanovo	1979&80			Retouched flake	Chert	5
S-94	6	Zhupanovo	1979&80			Flake	Obsidian	1
S-94	6	Zhupanovo	1979&80			Retouched flake	Obsidian	2
S-94	7	Zhupanovo	1979&80			Flake	Andesite	3
S-94	7	Zhupanovo	1979&80			Retouched flake	Andesite	16
S-94	7	Zhupanovo	1979&80			End scraper	Andesite	1
S-94	7	Zhupanovo	1979&80			Flake	Chert	3
S-94	7	Zhupanovo	1979&80			Flake	Obsidian	3
S-94	7	Zhupanovo	1979&80			Retouched flake	Obsidian	1
S-94	7	Zhupanovo	1979&80			Flake	Chalcedony	2
S-94	7	Zhupanovo	1979&80			Retouched flake	Chalcedony	1
S-94	8	Zhupanovo	1979&80			Flake	Obsidian	6
S-94	8	Zhupanovo	1979&80			Retouched flake	Obsidian	1
S-94	8	Zhupanovo	1979&80			Flake	Andesite	1
S-94	8	Zhupanovo	1979&80			Retouched flake	Andesite	1
S-94	8	Zhupanovo	1979&80			Flake	Chert	7
S-94	8	Zhupanovo	1979&80			Retouched flake	Chert	8
S-94	8	Zhupanovo	1979&80			Point	Chert	4
S-94	8	Zhupanovo	1979&80			Flake	Chalcedony	13
S-94	8	Zhupanovo	1979&80			Retouched flake	Chalcedony	1
S-95	1	Lopatka II-III	1973	1-B-7		Pebble	Andesite	1
S-95	2	Lopatka II-III	1973	1-B-1		Flake	Andesite	31
S-95	2	Lopatka II-III	1973	1-B-1		Core	Andesite	5
S-95	2	Lopatka II-III	1973	1-B-1		Pebble	Andesite	3
S-95	2	Lopatka II-III	1973	1-B-1		Flake	Chert	1
S-95	3	Lopatka II-III	1973	1-B-1		Flake	Andesite	13
S-95	3	Lopatka II-III	1973	1-B-1		Core	Andesite	2
S-95	3	Lopatka II-III	1973	1-B-1		Pebble	Andesite	11
S-95	3	Lopatka II-III	1973	1-B-1		Flake	Andesite	30

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-95	3	Lopatka II-III	1973	1-G-1		Core	Andesite	2
S-95	3	Lopatka II-III	1973	1-G-1		Core	Chert	1
S-95	3	Lopatka II-III	1973	1-G-1		Flake	Chert	1
S-95	3	Lopatka II-III	1973	1-G-1		Retouched flake	Andesite	1
S-95	4	Lopatka II-III	1973	1-A-2		Flake	Andesite	55
S-95	4	Lopatka II-III	1973	1-A-2		Core	Andesite	3
S-95	4	Lopatka II-III	1973	1-A-2		Pebble	Andesite	1
S-95	4	Lopatka II-III	1973	1-A-2		Flake	Chert	1
S-96	1	Lopatka III	1973	1-A-5		Flake	Andesite	32
S-96	1	Lopatka III	1973	1-A-5		Flake	Chert	1
S-96	1	Lopatka III	1973	1-A-5		Core	Andesite	3
S-96	1	Lopatka III	1973	1-A-5		Pebble	Schist	1
S-96	2	Lopatka III	1973	1-A-1		Pebble	Andesite	6
S-96	2	Lopatka III	1973	1-A-1		Flake	Andesite	31
S-96	2	Lopatka III	1973	1-A-1		Core	Andesite	1
S-96	3	Lopatka III	1973	1-A-3		Flake	Andesite	30
S-96	3	Lopatka III	1973	1-A-3		Core	Andesite	3
S-96	3	Lopatka III	1973	1-A-3		Flake	Chert	1
S-96	3	Lopatka III	1973	1-A-3		Core	Chalcedony	1
S-96	3	Lopatka III	1973	1-A-3		Flake	Tuff	1
S-96	3	Lopatka III	1973	1-A-3		Retouched flake	Chert	1
S-96	4	Lopatka III	1973	1-B-1		Flake	Andesite	60
S-96	4	Lopatka III	1973	1-B-1		Core	Andesite	5
S-96	4	Lopatka III	1973	1-B-1		Flake	Chert	5
S-96	4	Lopatka III	1973	1-B-1		Core	Chalcedony	2
S-96	4	Lopatka III	1973	1-B-1		Pebble	Andesite	1
S-96	4	Lopatka III	1973	1-A-2		Pebble	Andesite	4
S-96	4	Lopatka III	1973	1-A-2		Flake	Andesite	39
S-96	4	Lopatka III	1973	1-A-2		Core	Andesite	1
S-96	4	Lopatka III	1973	1-A-2		Core	Chalcedony	1
S-97	8	Lopatka IV	1973			Core	Andesite	8
S-97	8	Lopatka IV	1973			Flake	Andesite	8
S-97	8	Lopatka IV	1973			Core	Chert	2
S-98	1	Lopatka IV	1975			Core	Andesite	3
S-98	1	Lopatka IV	1975			Flake	Andesite	3
S-98	1	Lopatka IV	1975			Retouched flake	Andesite	1
S-98	1	Lopatka IV	1975			Retouched flake	Obsidian	1
S-98	1	Lopatka IV	1975			Retouched flake	Chalcedony	1
S-98	1	Lopatka IV	1975			Flake	Chalcedony	1
S-98	2	Lopatka IV	1975			Core	Andesite	2
S-98	2	Lopatka IV	1975			Core	Chert	1
S-98	2	Lopatka IV	1975			Flake	Chert	2
S-98	3	Lopatka IV	1975			Core	Andesite	15
S-98	3	Lopatka IV	1975			Flake	Andesite	3
S-98	3	Lopatka IV	1975			Retouched flake	Andesite	5
S-98	3	Lopatka IV	1975			Core	Chert	1
S-98	3	Lopatka IV	1975			Flake	Chert	1
S-98	4	Lopatka IV	1975			Retouched flake	Andesite	3
S-98	4	Lopatka IV	1975			Core	Andesite	5
S-98	5	Lopatka IV	1975			Flake	Obsidian	10
S-98	5	Lopatka IV	1975			Flake	Andesite	36
S-98	5	Lopatka IV	1975			Flake	Shale	1
S-98	5	Lopatka IV	1975			Core	Chert	3
S-98	5	Lopatka IV	1975			Flake	Chert	23
S-98	5	Lopatka IV	1975			Utilized flake	Shale	1
S-98	5	Lopatka IV	1975			Core	Chalcedony	1
S-98	5	Lopatka IV	1975			Flake	Chalcedony	3
S-98	6	Lopatka IV	1975			Flake	Chert	4
S-98	6	Lopatka IV	1975			Flake	Andesite	6
S-98	6	Lopatka IV	1975			Pebble	Chert	1
S-98	6	Lopatka IV	1975			Core	Andesite	1
S-98	7	Lopatka IV	1975			Core	Andesite	11
S-98	7	Lopatka IV	1975			Retouched flake	Andesite	1

Box	Sub- box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-98	7	Lopatka IV	1975			Core	Chalcedony	1
S-98	7	Lopatka IV	1975			Flake	Chalcedony	2
S-98	7	Lopatka IV	1975			Flake	Chert	4
S-99	1	Lopatka II	1973	1-G-2		Core	Andesite	4
S-99	1	Lopatka II	1973	1-G-2		Flake	Andesite	55
S-99	1	Lopatka II	1973	1-G-2		Retouched flake	Andesite	1
S-99	1	Lopatka II	1973	1-G-2		Core	Chalcedony	1
S-99	1	Lopatka II	1973	1-G-2		Core	Chert	1
S-99	2	Lopatka II	1973			Flake	Andesite	29
S-99	2	Lopatka II	1973			Pebble	Andesite	3
S-99	3	Lopatka II	1973	1-B-1		Core	Andesite	9
S-99	3	Lopatka II	1973	1-B-1		Core	Chalcedony	2
S-99	3	Lopatka II	1973	1-B-1		Flake	Chert	4
S-99	3	Lopatka II	1973	1-B-1		Core	Chert	1
S-99	3	Lopatka II	1973	1-B-1		Flake	Andesite	72
S-99	3	Lopatka II	1973	1-B-1		Pebble	Andesite	10
S-100	1	Lopatka IV	1973			Core	Andesite	1
S-100	1	Lopatka IV	1973			Retouched flake	Andesite	6
S-100	1	Lopatka IV	1973			Flake	Andesite	5
S-100	1	Lopatka IV	1973			Retouched flake	Obsidian	4
S-100	1	Lopatka IV	1973			Retouched flake	Chert	2
S-100	2	Lopatka IV	1973			Point	Obsidian	1
S-100	2	Lopatka IV	1973			Flake	Chert	34
S-100	2	Lopatka IV	1973			Flake	Andesite	3
S-100	3	Lopatka IV	1973			Flake	Andesite	10
S-100	3	Lopatka IV	1973			Core	Andesite	4
S-100	3	Lopatka IV	1973			Flake	Chert	7
S-100	3	Lopatka IV	1973			Core	Chert	3
S-100	3	Lopatka IV	1973			Flake	Schist	1
S-100	3	Lopatka IV	1973			Pebble	Pumice	1
S-100	3	Lopatka IV	1973			Core	Chalcedony	1
S-100	4	Lopatka IV	1973			Core	Chert	1
S-100	5	Lopatka IV	1973			Flake	Andesite	27
S-100	5	Lopatka IV	1973			Retouched flake	Andesite	2
S-100	5	Lopatka IV	1973			Core	Andesite	4
S-100	5	Lopatka IV	1973			Core	Chert	3
S-100	5	Lopatka IV	1973			Flake	Chert	7
S-100	5	Lopatka IV	1973			Flake	Andesite	20
S-100	5	Lopatka IV	1973			Core	Andesite	1
S-100	5	Lopatka IV	1973			Retouched flake	Andesite	1
S-100	5	Lopatka IV	1973			Flake	Chert	8
S-100	5	Lopatka IV	1973			Core	Chert	3
S-100	5	Lopatka IV	1973			Flake	Chalcedony	2
S-100	5	Lopatka IV	1973			Flake	Obsidian	2
S-100	5	Lopatka IV	1973			Point	Chert	1
S-100	6	Lopatka IV	1973			Core	Andesite	4
S-101	1	Lopatka IV	1972&73		Surface col- lection	Point	Andesite	23
S-101	1	Lopatka IV	1972&73		Surface col- lection	Arrowhead	Andesite	1
S-101	1	Lopatka IV	1972&73		Surface col- lection	Point	Obsidian	23
S-101	1	Lopatka IV	1972&73		Surface col- lection	Arrowhead	Obsidian	8
S-101	1	Lopatka IV	1972&73		Surface col- lection	Point	Chert	3
S-101	1	Lopatka IV	1972&73		Surface col- lection	Arrowhead	Chert	6
S-101	1	Lopatka IV	1972&73		Surface col- lection	Retouched flake	Obsidian	1
S-102	1	Lopatka II	1972			Core	Andesite	39

Box	Sub-	Site name	Year	Unit	Level	Artifact class	Stone	Count
	box ID							
S-102	1	Lopatka II	1972			Flake	Andesite	39
S-102	1	Lopatka II	1972			Pebble	Andesite	1
S-102	1	Lopatka II	1972			Retouched flake	Andesite	16
S-102	1	Lopatka II	1972			Flake	Chert	24
S-102	1	Lopatka II	1972			Core	Chert	4
S-102	1	Lopatka II	1972			Core	Chalcedony	3
S-102	1	Lopatka II	1972			Flake	Chalcedony	2
S-102	1	Lopatka II	1972			Retouched flake	Chert	8
S-102	1	Lopatka II	1972			Flake	Schist	3
S-102	1	Lopatka II	1972			Flake	Obsidian	3
S-102	1	Lopatka II	1972			Arrowhead	Obsidian	1
S-102	1	Lopatka II	1972			End scraper	Chert	1
S-102	1	Lopatka II	1972			Pebble	Chert	1
S-102	1	Lopatka II	1972			Flake	Obsidian	4
S-102	1	Lopatka II	1972			Retouched flake	Obsidian	2
S-102	1	Lopatka II	1972			Point	Andesite	2
S-102	1	Lopatka II	1972			Pebble	Chalcedony	1
S-103	1	Lopatka IV	1973		Surface collection	Core	Chert	1
S-103	1	Lopatka IV	1973	Ж-7		Flake	Andesite	1
S-103	1	Lopatka IV	1973	Ж-8		Flake	Andesite	1
S-103	1	Lopatka IV	1973	В-3		Core	Andesite	1
S-103	1	Lopatka IV	1973	В-3		Flake	Andesite	2
S-103	1	Lopatka IV	1973	В-3		Flake	Chert	1
S-103	1	Lopatka IV	1973	Ж-7		Arrowhead	Obsidian	1
S-103	1	Lopatka IV	1973	Б-3		Flake	Andesite	1
S-103	2	Lopatka IV	1973	В-2		Core	Chert	2
S-103	2	Lopatka IV	1973	В-2		Retouched flake	Chert	5
S-103	2	Lopatka IV	1973	В-2		Flake	Chert	2
S-103	3	Lopatka IV	1973	Ж-7		Flake	Andesite	2
S-103	3	Lopatka IV	1973	Ж-7		Core	Andesite	1
S-103	4	Lopatka IV	1973	А-1		Core	Chert	6
S-103	5	Lopatka IV	1973	Д-8		Core	Andesite	1
S-103	5	Lopatka IV	1973	Д-8		Flake	Andesite	2
S-103	6	Lopatka IV	1973	Б-10		Flake	Andesite	6
S-103	6	Lopatka IV	1973	Б-10		Core	Andesite	2
S-103	6	Lopatka IV	1973	Б-10		Flake	Chert	1
S-104	1	Lopatka II	1973	1-В-1		Flake	Andesite	63
S-104	1	Lopatka II	1973	1-В-1		Core	Andesite	3
S-104	1	Lopatka II	1973	1-В-1		Core	Chert	2
S-104	2	Lopatka II	1973	Г-3		Flake	Andesite	66
S-104	2	Lopatka II	1973	Г-3		Core	Andesite	3
S-104	2	Lopatka II	1973	Г-3		Flake	Chert	4
S-104	2	Lopatka II	1973	Г-3		Flake	Chalcedony	1
S-104	3	Lopatka II	1973	Г-1		Flake	Andesite	23
S-104	3	Lopatka II	1973	Г-1		Core	Andesite	1
S-104	3	Lopatka II	1973	Г-1		Flake	Chalcedony	1
S-104	3	Lopatka II	1973	Г-1		Pebble	Andesite	1
S-104	4	Lopatka II	1973	1-П-1		Flake	Andesite	9
S-104	4	Lopatka II	1973	1-П-1		Core	Andesite	2
S-104	5	Lopatka II	1973	В-2		Flake	Andesite	26
S-104	5	Lopatka II	1973	В-2		Core	Andesite	2
S-104	5	Lopatka II	1973	В-2		Pebble	Andesite	4
S-104	5	Lopatka II	1973	В-2	Retouched flake	Retouched flake	Andesite	1
S-104	6	Lopatka II	1973	А-5		Flake	Andesite	18
S-104	6	Lopatka II	1973	А-5		Pebble	Chalcedony	1
S-104	6	Lopatka II	1973	А-5		Pebble	Andesite	1
S-104	6	Lopatka II	1973	А-5		Flake	Chert	1
S-104	7	Lopatka II	1973	Г-1		Flake	Andesite	33
S-104	7	Lopatka II	1973	Г-1		Core	Andesite	5
S-104	7	Lopatka II	1973	Г-1		Pebble	Andesite	1
S-104	7	Lopatka II	1973	Г-1		Flake	Chert	1

Box	Sub-	Site name	Year	Unit	Level	Artifact class	Stone	Count
	ID							
S-104	7	Lopatka II	1973	G-1		Flake	Chalcedony	1
S-104	8	Lopatka II	1973	B-2		Flake	Andesite	12
S-104	8	Lopatka II	1973	B-2		Retouched flake	Andesite	1
S-104	8	Lopatka II	1973	B-2		Pebble	Andesite	2
S-105	1	Lopatka IV	1973&75			Retouched flake	Andesite	25
S-105	1	Lopatka IV	1973&75			Stemmed scraper	Andesite	6
S-105	1	Lopatka IV	1973&75			Point	Andesite	7
S-105	1	Lopatka IV	1973&75			Core	Andesite	3
S-105	1	Lopatka IV	1973&75			Retouched flake	Chert	6
S-105	1	Lopatka IV	1973&75			Core	Chert	1
S-105	1	Lopatka IV	1973&75			Point	Chert	3
S-105	1	Lopatka IV	1973&75			Flake	Chert	2
S-105	1	Lopatka IV	1973&75			Flake	Obsidian	2
S-105	1	Lopatka IV	1973&75			Point	Obsidian	3
S-105	1	Lopatka IV	1973&75			Stemmed scraper	Obsidian	1
S-105	1	Lopatka IV	1973&75			Retouched flake	Obsidian	2
S-105	1	Lopatka IV	1973&75			Arrowhead	Obsidian	1
S-106	1	Lopatka III	1973	B-2		Flake	Andesite	5
S-106	1	Lopatka III	1973	B-2		Core	Andesite	7
S-106	2	Lopatka III	1973	D-6		Core	Andesite	5
S-106	2	Lopatka III	1973	D-6		Flake	Andesite	2
S-106	2	Lopatka III	1973	D-6		Flake	Chert	1
S-106	3	Lopatka III	1973	B-3		Core	Andesite	1
S-106	4	Lopatka III	1973	E-8		Core	Andesite	10
S-106	4	Lopatka III	1973	E-8		Flake	Andesite	5
S-106	5	Lopatka III	1973	Ж-8		Core	Andesite	8
S-106	5	Lopatka III	1973	Ж-8		Flake	Andesite	2
S-106	6	Lopatka III	1973	A-2		Flake	Andesite	10
S-106	6	Lopatka III	1973	A-2		Core	Andesite	8
S-106	6	Lopatka III	1973	A-2		Flake	Chert	3
S-106	6	Lopatka III	1973	A-2		Flake	Schist	1
S-106	6	Lopatka III	1973	A-2		Retouched flake	Chert	1
S-106	7	Lopatka III	1973	Ж-3		Flake	Chert	5
S-106	7	Lopatka III	1973	Ж-3		Flake	Andesite	2
S-106	7	Lopatka III	1973	Ж-3		Core	Andesite	8
S-106	8	Lopatka III	1973	B-4		Flake	Andesite	14
S-106	8	Lopatka III	1973	B-4		Core	Andesite	3
S-106	8	Lopatka III	1973	B-4		Retouched flake	Andesite	2
S-106	8	Lopatka III	1973	B-4		Flake	Chert	7
S-106	8	Lopatka III	1973	B-8		Core	Andesite	5
S-106	8	Lopatka III	1973	A-2		Retouched flake	Andesite	2
S-106	8	Lopatka III	1973	E-8		Retouched flake	Andesite	1
S-106	8	Lopatka III	1973	B-8		Flake	Chert	1
S-106	9	Lopatka III	1973	И-5		Flake	Andesite	10
S-106	9	Lopatka III	1973	И-5		Core	Andesite	9
S-106	9	Lopatka III	1973	И-5		Flake	Andesite	6
S-106	9	Lopatka III	1973	И-5		Core	Andesite	6
S-106	9	Lopatka III	1973	И-5		Flake	Chert	2
S-107	1	Lopatka IV	1973	З-8		Pebble	Pumice	2
S-107	1	Lopatka IV	1973			Core	Andesite	1
S-107	2	Lopatka IV	1973	Г-5		Core	Chert	2
S-107	2	Lopatka IV	1973	Г-5		Flake	Chert	1
S-107	2	Lopatka IV	1973	Г-5		Flake	Andesite	1
S-107	2	Lopatka IV	1973	Ж-8		Core	Andesite	1
S-107	2	Lopatka IV	1973	Ж-8		Flake	Andesite	4
S-107	3	Lopatka IV	1973	Д-10		Flake	Andesite	4
S-107	3	Lopatka IV	1973	Д-10		Flake	Chalcedony	1
S-107	4	Lopatka IV	1973	E-9		Flake	Andesite	17
S-107	4	Lopatka IV	1973	E-9		Pebble	Andesite	1
S-107	5	Lopatka IV	1973	O-11		Flake	Andesite	32
S-107	5	Lopatka IV	1973	O-11		Core	Andesite	5
S-107	5	Lopatka IV	1973	O-11		Core	Chert	1
S-107	5	Lopatka IV	1973	O-11		Flake	Chert	1

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-107	5	Lopatka IV	1973	O-11		Flake	Chalcedony	1
S-107	6	Lopatka IV	1973	M-2		Flake	Andesite	3
S-107	7	Lopatka IV	1973	B-11		Flake	Andesite	4
S-107	7	Lopatka IV	1973	B-11		Core	Andesite	3
S-107	8	Lopatka IV	1973	B-5		Flake	Andesite	5
S-107	8	Lopatka IV	1973	B-5		Core	Andesite	3
S-107	8	Lopatka IV	1973	3-4		Flake	Andesite	4
S-107	8	Lopatka IV	1973	3-4		Core	Andesite	1
S-107	9	Lopatka IV	1973	I-9		Flake	Andesite	2
S-107	9	Lopatka IV	1973	I-9		Core	Andesite	7
S-107	9	Lopatka IV	1973	I-9		Core	Chert	2
S-107	9	Lopatka IV	1973	I-9		Retouched flake	Andesite	2
S-108	1	Lopatka IV	1975			Core	Chalcedony	1
S-108	1	Lopatka IV	1975			Core	Andesite	1
S-108	1	Lopatka III	1973			Flake	Andesite	1
S-108	2	Lopatka III	1973			Core	Andesite	5
S-108	2	Lopatka III	1973			Flake	Andesite	1
S-108	2	Lopatka III	1973			Retouched flake	Andesite	1
S-108	2	Lopatka III	1973			Core	Chert	4
S-108	2	Lopatka III	1973			Flake	Chert	2
S-108	2	Lopatka III	1973			Flake	Obsidian	1
S-108	3	Lopatka III	1973			Flake	Chert	6
S-108	3	Lopatka III	1973			Flake	Andesite	6
S-108	3	Lopatka III	1973			Flake	Chalcedony	2
S-108	3	Lopatka III	1973			Core	Andesite	1
S-108	3	Lopatka III	1973			Core	Chert	1
S-108	3	Lopatka III	1973			Flake	Chert	3
S-108	4	Andrianovka	1973			Flake	Obsidian	2
S-108	4	Andrianovka	1973			Flake	Andesite	3
S-108	4	Andrianovka	1973			Retouched flake	Andesite	1
S-108	5	Andrianovka	1973			Flake	Andesite	1
S-108	5	Andrianovka	1973			Core	Andesite	1
S-108	5	Andrianovka	1973			End scraper	Andesite	4
S-108	5	Andrianovka	1973			Core	Chert	1
S-108	5	Andrianovka	1973			Retouched flake	Chert	1
S-108	5	Andrianovka	1973			Flake	Chert	1
S-108	5	Andrianovka	1973			Flake	Obsidian	1
S-108	6	Lopatka III	1973			Flake	Andesite	4
S-108	6	Lopatka III	1973			Flake	Chert	17
S-109	1	Lopatka III	1973			Flake	Andesite	2
S-109	1	Lopatka III	1973			Point	Andesite	1
S-109	1	Lopatka III	1973			Point	Obsidian	5
S-109	1	Lopatka III	1973			Arrowhead	Obsidian	4
S-109	1	Lopatka III	1973			Utilized flake	Obsidian	4
S-109	1	Lopatka III	1973			Retouched flake	Obsidian	2
S-109	2	Andrianovka	1975			Retouched flake	Andesite	2
S-109	2	Andrianovka	1975			Point	Obsidian	6
S-109	2	Lopatka III	1973			Flake	Andesite	2
S-109	2	Lopatka III	1973			End scraper	Andesite	2
S-109	2	Lopatka III	1973			End scraper	Schist	1
S-109	3	Lopatka III	1973			Point	Obsidian	4
S-109	3	Lopatka III	1973			Core	Andesite	1
S-109	3	Lopatka III	1973			Arrowhead	Chert	1
S-109	3	Lopatka III	1973			Point	Chert	1
S-109	4	Andrianovka	1975			Core	Andesite	1
S-109	4	Andrianovka	1975			Flake	Andesite	1
S-109	4	Lopatka III	1973			Retouched flake	Andesite	1
S-109	4	Lopatka III	1973			End scraper	Chert	1
S-109	4	Lopatka III	1973			Stemmed scraper	Chalcedony	1
S-109	4	Lopatka III	1973			Stemmed scraper	Andesite	1
S-109	5	Lopatka III	1973			Flake	Andesite	6
S-109	5	Lopatka III	1973			Core	Andesite	6
S-109	5	Lopatka III	1973			Retouched flake	Andesite	15

Box	Sub-	Site name	Year	Unit	Level	Artifact class	Stone	Count
	box ID							
S-109	5	Lopatka III	1973			Point	Andesite	7
S-109	5	Lopatka III	1973			Stemmed scraper	Andesite	1
S-109	5	Lopatka III	1973			Arrowhead	Andesite	1
S-109	5	Lopatka III	1973			Flake	Chalcedony	1
S-109	5	Lopatka III	1973			Flake	Chert	8
S-109	5	Lopatka III	1973			Retouched flake	Chert	5
S-109	5	Lopatka III	1973			Utilized flake	Chert	1
S-109	5	Lopatka III	1973			Point	Chert	3
S-109	5	Lopatka III	1973			Arrowhead	Chert	1
S-109	5	Lopatka III	1973			Retouched flake	Obsidian	7
S-109	5	Lopatka III	1973			Flake	Obsidian	14
S-109	5	Lopatka III	1973			End scraper	Obsidian	1
S-109	5	Lopatka III	1973			Point	Obsidian	1
S-109	5	Lopatka III	1973			Arrowhead	Obsidian	2
S-110	1	Lopatka III	1973	Г-6		Core	Andesite	7
S-110	1	Lopatka IV	1973	Г-6		Flake	Andesite	6
S-110	1	Lopatka III	1973	Г-6		Flake	Obsidian	1
S-110	1	Lopatka IV	1973	Г-6		Flake	Chert	1
S-110	2	Lopatka IV	1973	Ж-7		Core	Andesite	6
S-110	2	Lopatka IV	1973	Ж-7		Flake	Andesite	7
S-110	2	Lopatka IV	1973	Ж-7		Flake	Chert	2
S-110	3	Lopatka IV	1973	Е-2		Core	Andesite	4
S-110	3	Lopatka IV	1973	Е-2		Flake	Andesite	4
S-110	3	Lopatka IV	1973	Е-2		Retouched flake	Andesite	1
S-110	3	Lopatka IV	1973	Е-2		Flake	Chert	6
S-110	3	Lopatka IV	1973	Е-2		Flake	Obsidian	2
S-110	4	Lopatka IV	1973	Ж-5		Core	Andesite	10
S-110	4	Lopatka IV	1973	Ж-5		Flake	Andesite	7
S-110	4	Lopatka IV	1973	Ж-5		Retouched flake	Andesite	1
S-110	4	Lopatka IV	1973	Ж-5		Flake	Chert	1
S-110	4	Lopatka IV	1973	Ж-5		Core	Chert	1
S-110	5	Lopatka IV	1973	А-3		Core	Andesite	2
S-110	5	Lopatka IV	1973	А-3		Flake	Andesite	1
S-110	5	Lopatka IV	1973	А-3		Flake	Chert	3
S-110	6	Lopatka IV	1973	А-3		Core	Andesite	6
S-110	6	Lopatka IV	1973	А-3		Flake	Andesite	14
S-110	6	Lopatka IV	1973	А-3		Flake	Chert	3
S-110	6	Lopatka IV	1973	А-3		Flake	Schist	1
S-110	6	Lopatka IV	1973	А-3		Flake	Obsidian	2
S-110	7	Lopatka IV	1973	В-2		Core	Andesite	6
S-110	7	Lopatka IV	1973	В-2		Flake	Andesite	6
S-110	7	Lopatka IV	1973	В-2		Retouched flake	Andesite	3
S-110	7	Lopatka IV	1973	В-2		Core	Chert	1
S-110	7	Lopatka IV	1973	В-2		Flake	Chert	4
S-110	7	Lopatka IV	1973	В-2		Retouched flake	Chert	1
S-110	7	Lopatka IV	1973	В-2		Flake	Obsidian	2
S-110	7	Lopatka IV	1973	В-2		Flake	Schist	2
S-111	1	Lopatka IV	1973	3-3		Flake	Andesite	2
S-111	2	Lopatka IV	1973	3-7		Pebble	Pumice	1
S-111	2	Lopatka IV	1973	3-7		Flake	Andesite	140
S-111	2	Lopatka IV	1973	3-7		Core	Andesite	10
S-111	2	Lopatka IV	1973	3-7		Flake	Chert	6
S-111	2	Lopatka IV	1973	3-7		Flake	Chalcedony	5
S-111	3	Lopatka IV	1973	Ж-3		Core	Andesite	2
S-111	3	Lopatka IV	1973	Ж-3		Retouched flake	Andesite	1
S-111	4	Lopatka IV	1973	3-7		Core	Andesite	2
S-111	5	Lopatka IV	1973	А-4		Core	Andesite	2
S-111	5	Lopatka IV	1973	А-4		Flake	Andesite	2
S-111	6	Lopatka IV	1973	Г-8		Core	Andesite	1
S-111	7	Lopatka IV	1973	А-7		Core	Andesite	1
S-111	7	Lopatka IV	1973	А-7		Flake	Andesite	4
S-111	7	Lopatka IV	1973	А-7		Flake	Chert	1
S-111	8	Lopatka IV	1973	Ж-3		Core	Andesite	2

Box ID	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-111	9	Lopatka IV	1973	D-2		Core	Andesite	1
S-111	9	Lopatka IV	1973	D-2		Flake	Andesite	1
S-112	1	Andrianovka	1975			Core	Andesite	1
S-112	1	Andrianovka	1975			Flake	Andesite	3
S-113	1	Lopatka IV	1975			Core	Andesite	1
S-113	1	Lopatka IV	1975			Flake	Andesite	1
S-113	1	Lopatka IV	1975			Retouched flake	Andesite	1
S-113	1	Lopatka IV	1975			Retouched flake	Chert	1
S-113	1	Lopatka IV	1975			Flake	Chalcedony	1
S-113	1	Lopatka IV	1975			Core	Chalcedony	1
S-113	1	Lopatka IV	1975			End scraper	Obsidian	2
S-113	1	Lopatka IV	1975			Retouched flake	Obsidian	3
S-113	1	Lopatka IV	1975			End scraper	Chert	3
S-113	1	Lopatka IV	1975			Retouched flake	Chert	2
S-113	1	Lopatka IV	1975			Flake	Chert	1
S-113	2	Lopatka IV	1975			Retouched flake	Andesite	19
S-113	2	Lopatka IV	1975			Flake	Andesite	1
S-113	2	Lopatka IV	1975			Stemmed scraper	Andesite	1
S-113	2	Lopatka IV	1975			Aze	Schist	1
S-113	2	Lopatka IV	1975			Retouched flake	Chalcedony	1
S-113	2	Lopatka IV	1975			Retouched flake	Chert	4
S-113	2	Lopatka IV	1975			Flake	Chert	6
S-113	2	Lopatka IV	1975			Point	Chert	2
S-113	2	Lopatka IV	1975			Retouched flake	Obsidian	3
S-113	2	Lopatka IV	1975			Chip	Chalcedony	1
S-113	3	Lopatka IV	1975			Flake	Andesite	2
S-113	3	Lopatka IV	1975			Core	Andesite	1
S-113	3	Lopatka IV	1975			Flake	Chert	2
S-113	3	Lopatka IV	1975			Retouched flake	Chert	1
S-113	4	Lopatka IV	1975			Retouched flake	Obsidian	1
S-113	4	Lopatka IV	1975			Retouched flake	Andesite	2
S-113	4	Lopatka IV	1975			Core	Andesite	1
S-113	4	Lopatka IV	1975			Flake	Chert	1
S-113	5	Lopatka IV	1975			Pebble	Chert	1
S-113	5	Lopatka IV	1975			Pebble	Chalcedony	1
S-113	6	Lopatka IV	1975			Flake	Andesite	6
S-113	6	Lopatka IV	1975			Core	Andesite	6
S-113	6	Lopatka IV	1975			Flake	Chert	1
S-114	1	Lopatka IV	1973			Flake	Andesite	5
S-114	1	Lopatka IV	1973			Retouched flake	Andesite	2
S-114	1	Lopatka IV	1975			Core	Chert	2
S-114	1	Lopatka IV	1975			Flake	Chalcedony	1
S-114	1	Lopatka IV	1975			Retouched flake	Chert	1
S-114	2	Lopatka IV	1975			Core	Andesite	4
S-114	2	Lopatka IV	1975			Retouched flake	Andesite	2
S-114	2	Lopatka IV	1975			Flake	Andesite	7
S-114	2	Lopatka IV	1975			Core	Chalcedony	1
S-114	2	Lopatka IV	1975			Flake	Chalcedony	2
S-114	2	Lopatka IV	1975			Core	Chert	1
S-114	2	Lopatka IV	1975			Flake	Chert	3
S-114	2	Lopatka IV	1975			Flake	Schist	2
S-115	1	Lopatka IV	1973	G-10		Flake	Andesite	5
S-115	1	Lopatka IV	1973	G-10		Core	Andesite	4
S-115	1	Lopatka IV	1973	G-10		Point	Andesite	2
S-115	1	Lopatka IV	1973	G-10		Retouched flake	Andesite	3
S-115	1	Lopatka IV	1973	G-10		Retouched flake	Chert	1
S-115	1	Lopatka IV	1973	G-10		Flake	Chalcedony	1
S-115	2	Lopatka IV	1973	G-6		Flake	Andesite	1
S-115	2	Lopatka IV	1973	G-6		Core	Andesite	2
S-115	2	Lopatka IV	1973	G-6		Flake	Chert	1
S-115	2	Lopatka IV	1973	G-6		Core	Chert	1
S-115	3	Lopatka IV	1973	D-11		Hummer	Andesite	1
S-115	3	Lopatka IV	1973	D-11		Flake	Andesite	2

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-115	3	Lopatka IV	1973	Д-11		Utilized flake	Andesite	1
S-115	4	Lopatka IV	1973	И-10		Core	Andesite	2
S-115	4	Lopatka IV	1973	И-10		Flake	Andesite	6
S-115	4	Lopatka IV	1973	И-10		Core	Chert	1
S-115	4	Lopatka IV	1973	И-10		Flake	Chert	2
S-115	4	Lopatka IV	1973	И-10		Flake	Chalcedony	1
S-115	5	Lopatka IV	1973	В-8		Flake	Andesite	5
S-115	5	Lopatka IV	1973	В-8		Core	Andesite	2
S-115	5	Lopatka IV	1973	В-8		Retouched flake	Andesite	1
S-115	5	Lopatka IV	1973	В-8		Flake	Chert	6
S-115	6	Lopatka IV	1973			Point	Chert	1
S-115	6	Lopatka IV	1973			Stemmed scraper	Chert	2
S-115	6	Lopatka IV	1973			Stemmed scraper	Obsidian	2
S-115	6	Lopatka IV	1973			Stemmed scraper	Andesite	4
S-115	6	Lopatka IV	1973			Core	Andesite	1
S-115	7	Lopatka IV	1973			Point	Chert	1
S-115	7	Lopatka IV	1973			Arrowhead	Andesite	1
S-115	7	Lopatka IV	1973			Stemmed scraper	Chert	1
S-115	7	Lopatka IV	1973			Retouched flake	Chert	3
S-115	7	Lopatka IV	1973			Retouched flake	Obsidian	2
S-115	7	Lopatka IV	1973			Point	Obsidian	4
S-116	1	Lopatka IV	1973	Д-6		Flake	Andesite	1
S-116	1	Lopatka IV	1973	Д-6		Retouched flake	Andesite	1
S-116	2	Lopatka IV	1973	Д-5		Flake	Andesite	2
S-116	2	Lopatka IV	1973	Д-5		Retouched flake	Andesite	3
S-116	2	Lopatka IV	1973	Д-5		Flake	Chert	1
S-116	3	Lopatka IV	1973	А-6		Core	Andesite	2
S-116	3	Lopatka IV	1973	А-6		Flake	Andesite	1
S-116	3	Lopatka IV	1973	А-6		Flake	Chert	2
S-116	4	Lopatka IV	1973	И-9		Core	Andesite	1
S-116	4	Lopatka IV	1973	И-9		Core	Chert	1
S-116	5	Lopatka IV	1973	В-7		Core	Andesite	3
S-116	6	Lopatka IV	1973	А-10		Core	Andesite	1
S-116	6	Lopatka IV	1973	А-10		Flake	Andesite	3
S-116	7	Lopatka IV	1973	Б-1		Core	Andesite	4
S-116	7	Lopatka IV	1973	Б-1		Core	Chert	2
S-116	7	Lopatka IV	1973	Б-1		Retouched flake	Andesite	3
S-116	8	Lopatka IV	1973	З-4		Core	Andesite	2
S-116	8	Lopatka IV	1973	З-4		Flake	Andesite	2
S-116	9	Lopatka IV	1973	И-3		Flake	Andesite	3
S-116	9	Lopatka IV	1973	И-3		Core	Andesite	1
S-116	9	Lopatka IV	1973	И-3		Pebble	Andesite	1
S-116	10	Lopatka IV	1973	О-1		Core	Andesite	2
S-116	11	Lopatka IV	1973	И-2		Core	Andesite	3
S-117	1	Andrianovka	1973	А-2		Flake	Chert	7
S-117	1	Andrianovka	1973	А-2		Chip	Obsidian	27
S-117	1	Andrianovka	1973	А-2		Flake	Obsidian	78
S-117	1	Andrianovka	1973	А-2		Core	Chert	1
S-117	2	Andrianovka	1973	Г-2		Flake	Obsidian	1
S-117	3	Andrianovka	1973			Core	Andesite	1
S-117	4	Andrianovka	1973	Б-4		Core	Chert	11
S-117	4	Andrianovka	1973	Б-4		Flake	Chert	9
S-117	4	Andrianovka	1973	Б-4		Retouched flake	Obsidian	1
S-117	4	Andrianovka	1973	Б-4		Retouched flake	Chert	1
S-117	5	Andrianovka	1973	Б-4		Pebble	Pumice	3
S-117	5	Andrianovka	1973	Б-4		Pebble	Andesite	2
S-117	5	Andrianovka	1973	Б-4		Flake	Obsidian	2
S-117	5	Andrianovka	1973			Core	Chert	2
S-117	5	Andrianovka	1973			Flake	Chert	23
S-117	5	Andrianovka	1973			Core	Chalcedony	2
S-117	5	Andrianovka	1973			Flake	Chalcedony	10
S-117	5	Andrianovka	1973			Core	Obsidian	1
S-117	5	Andrianovka	1973			Flake	Obsidian	35

Box ID	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-117	6	Andrianovka	1973			Flake	Chalcedony	24
S-117	6	Andrianovka	1973			Flake	Obsidian	38
S-117	6	Andrianovka	1973			Core	Obsidian	2
S-117	6	Andrianovka	1973			Retouched flake	Obsidian	3
S-117	6	Andrianovka	1973			End scraper	Obsidian	4
S-117	6	Andrianovka	1973			Flake	Schist	3
S-117	6	Andrianovka	1973			Flake	Andesite	1
S-117	6	Andrianovka	1973			Core	Chalcedony	1
S-117	6	Andrianovka	1973			Flake	Chert	69
S-117	6	Andrianovka	1973			Core	Chert	5
S-117	6	Andrianovka	1973			Point	Chert	1
S-117	6	Andrianovka	1973			Flake	Chalcedony	23
S-117	6	Andrianovka	1973			Chip	Obsidian	22
S-118	1	Yavino 8	1977			Retouched flake	Obsidian	1
S-118	1	Yavino 8	1977			Flake	Obsidian	40
S-118	1	Yavino 8	1977			Chip	Obsidian	6
S-118	1	Yavino 8	1977			Utilized flake	Obsidian	2
S-118	1	Yavino 8	1977			Core	Andesite	3
S-118	1	Yavino 8	1977			Retouched flake	Andesite	2
S-118	1	Yavino 8	1977			End scraper	Andesite	1
S-118	1	Yavino 8	1977			Core	Chert	1
S-118	1	Yavino 8	1977			Flake	Andesite	71
S-118	1	Yavino 8	1977			Utilized flake	Andesite	1
S-118	1	Yavino 8	1977			Flake	Chalcedony	3
S-118	2	Yavino 8	1977			Flake	Obsidian	111
S-118	2	Yavino 8	1977			Core	Obsidian	1
S-118	2	Yavino 8	1977			Retouched flake	Andesite	1
S-118	2	Yavino 8	1977			Flake	Andesite	3
S-118	2	Yavino 8	1977			Flake	Chalcedony	3
S-118	2	Yavino 8	1977			Flake	Chert	4
S-118	2	Yavino 8	1977			Retouched flake	Obsidian	1
S-118	2	Yavino 8	1977			End scraper	Obsidian	1
S-118	3	Yavino 5	1977			Flake	Obsidian	12
S-118	3	Yavino 5	1977			Chip	Obsidian	4
S-118	3	Yavino 5	1977			Flake	Andesite	3
S-118	4	Yavino 8	1977			End scraper	Obsidian	1
S-118	4	Yavino 8	1977			Flake	Obsidian	8
S-118	4	Yavino 8	1977			Retouched flake	Obsidian	1
S-118	5	Lopatka III	1973			Retouched flake	Obsidian	1
S-118	5	Yavino 6	1977			Flake	Obsidian	1
S-118	5	Yavino 6	1977			Flake	Obsidian	16
S-118	5	Yavino 6	1977			Flake	Andesite	9
S-118	5	Yavino 6	1977			Core	Andesite	1
S-118	5	Yavino 6	1977			Flake	Chalcedony	2
S-118	5	Yavino 6	1977			Pebble	Chert	1
S-118	5	Yavino 6	1977			Retouched flake	Chert	1
S-119	1	Lopatka III	1973			Point	Obsidian	2
S-119	1	Lopatka III	1973			Arrowhead	Obsidian	1
S-119	2	Lopatka III	1973			Core	Andesite	3
S-119	2	Lopatka III	1973			Flake	Andesite	2
S-119	2	Lopatka III	1973			Point	Andesite	1
S-119	2	Lopatka III	1973			Flake	Chert	1
S-119	3	Lopatka III	1973			Adze	Schist	3
S-119	3	Lopatka III	1973			Core	Andesite	1
S-119	3	Lopatka III	1973			Stemmed scraper	Andesite	4
S-119	3	Lopatka III	1973			Stemmed scraper	Obsidian	1
S-119	4	Lopatka III	1973			Stemmed scraper	Chert	1
S-119	4	Lopatka III	1973			End scraper	Chert	3
S-119	4	Lopatka III	1973			Retouched flake	Chert	2
S-119	4	Lopatka III	1973			Retouched flake	Andesite	2
S-119	4	Lopatka III	1973			Flake	Chert	1
S-119	4	Lopatka III	1973			Retouched flake	Obsidian	4
S-119	5	Lopatka III	1973			Flake	Chert	1

Box	Sub-	Site name	Year	Unit	Level	Artifact class	Stone	Count
	ID							
S-119	5	Lopatka III	1973			Point	Chert	2
S-119	5	Lopatka III	1973			End scraper	Chert	1
S-119	5	Lopatka III	1973			Point	Obsidian	4
S-119	5	Lopatka III	1973			Arrowhead	Obsidian	5
S-120	1	Lopatka IV	1973			Point	Chert	8
S-120	1	Lopatka IV	1973			Arrowhead	Andesite	1
S-120	1	Lopatka IV	1973			Arrowhead	Obsidian	2
S-120	1	Lopatka IV	1973			Retouched flake	Obsidian	2
S-120	1	Lopatka IV	1973			End scraper	Obsidian	2
S-120	2	Lopatka IV	1973			Core	Chert	2
S-120	2	Lopatka IV	1973			Core	Andesite	1
S-120	2	Lopatka IV	1973			Flake	Chert	2
S-120	2	Lopatka IV	1973			Flake	Andesite	3
S-120	3	Lopatka IV	1973			Retouched flake	Andesite	1
S-120	3	Lopatka IV	1973			Flake	Andesite	1
S-120	3	Lopatka IV	1973			Point	Chert	1
S-120	4	Lopatka IV	1973			Point	Chert	1
S-120	4	Lopatka IV	1973			Arrowhead	Obsidian	1
S-120	4	Lopatka IV	1973			Flake	Chert	2
S-120	4	Lopatka IV	1973			Retouched flake	Chert	1
S-120	4	Lopatka IV	1973			Retouched flake	Andesite	9
S-120	4	Lopatka IV	1973			Retouched flake	Obsidian	2
S-120	5	Lopatka IV	1973	O-11		Flake	Andesite	33
S-120	5	Lopatka IV	1973	O-11		Core	Andesite	1
S-120	6	Lopatka IV	1973	E-5		Core	Andesite	2
S-120	6	Lopatka IV	1973	E-5		Flake	Andesite	5
S-120	6	Lopatka IV	1973	E-5		Flake	Chert	4
S-120	6	Lopatka IV	1973	E-5		Flake	Chalcedony	1
S-120	7	Lopatka IV	1973			Core	Andesite	1
S-120	7	Lopatka IV	1973			Flake	Andesite	2
S-120	7	Lopatka IV	1973			Retouched flake	Andesite	1
S-120	7	Lopatka IV	1973			Point	Andesite	1
S-120	7	Lopatka IV	1973			Flake	Chert	2
S-120	7	Lopatka IV	1973			Utilized flake	Chert	1
S-121	1	Yavino 7	1977			Core	Andesite	1
S-121	2	Yavino 7	1977	Surface collection		Core	Andesite	1
S-121	2	Yavino 7	1977	Surface collection		Flake	Obsidian	2
S-121	3	Yavino 7	1977			Flake	Obsidian	266
S-121	3	Yavino 7	1977			Chip	Obsidian	14
S-121	3	Yavino 7	1977			Retouched flake	Obsidian	6
S-121	4	Yavino 7	1977			Utilized flake	Obsidian	1
S-121	4	Yavino 7	1977			Arrowhead	Obsidian	1
S-121	4	Yavino 7	1977			Flake	Shale	15
S-121	4	Yavino 7	1977			Pebble	Chert	1
S-121	4	Yavino 7	1977			Flake	Chert	49
S-121	4	Yavino 7	1977			Chip	Chert	1
S-121	4	Yavino 7	1977			Retouched flake	Chert	2
S-121	4	Yavino 7	1977			Core	Chert	2
S-121	4	Yavino 7	1977			Flake	Chalcedony	47
S-121	4	Yavino 7	1977			Core	Chalcedony	4
S-121	4	Yavino 7	1977			Flake	Andesite	39
S-121	5	Yavino 7	1977			Flake	Andesite	68
S-121	5	Yavino 7	1977			Flake	Obsidian	69
S-121	5	Yavino 7	1977			Retouched flake	Obsidian	7
S-121	5	Yavino 7	1977			Utilized flake	Obsidian	3
S-121	5	Yavino 7	1977			End scraper	Obsidian	1
S-121	5	Yavino 7	1977			Point	Obsidian	1
S-121	5	Yavino 7	1977			Arrowhead	Obsidian	1
S-121	5	Yavino 7	1977			Chip	Obsidian	4
S-121	5	Yavino 7	1977			Retouched flake	Andesite	2

Box ID	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-121	5	Yavino 7	1977			Utilized flake	Andesite	1
S-121	5	Yavino 7	1977			Chip	Andesite	7
S-121	5	Yavino 7	1977			Flake	Chert	1
S-121	5	Yavino 7	1977			Flake	Chalcedony	2
S-122	1	Lopatka II	1973			Core	Andesite	5
S-122	1	Lopatka II	1973			Flake	Andesite	9
S-122	2	Lopatka II	1973			Retouched flake	Andesite	2
S-122	2	Lopatka II	1973			Core	Chert	1
S-122	2	Lopatka II	1973			Flake	Chert	2
S-122	2	Lopatka II	1973			Retouched flake	Obsidian	1
S-122	3	Lopatka II	1973			Core	Andesite	8
S-122	4	Lopatka II	1973	1-Б-3		Flake	Andesite	20
S-122	4	Lopatka II	1973	1-Б-3		Pebble	Pumice	1
S-122	4	Lopatka II	1973	1-Б-3		Pebble	Andesite	2
S-122	4	Lopatka II	1973	1-Б-3		Pebble	Schist	1
S-123	1	Lopatka II	1975			Core	Andesite	18
S-123	1	Lopatka II	1975			Flake	Andesite	5
S-123	1	Lopatka II	1975			Retouched flake	Andesite	2
S-123	1	Lopatka II	1975			Core	Chert	1
S-124	1	Kirpichnaya	1962			Adze	Schist	2
S-124	1	Kirpichnaya	1962			Adze	Tuff	1
S-124	1	Kirpichnaya	1962			Stemmed scraper	Chalcedony	1
S-124	1	Kirpichnaya	1962			Stemmed scraper	Obsidian	1
S-124	2	Kirpichnaya	1962			Adze	Schist	3
S-124	2	Kirpichnaya	1962			Axe	Schist	1
S-124	2	Kirpichnaya	1962			Adze	Andesite	1
S-125	1	Yavino 2	1977			Pebble	Andesite	3
S-125	1	Yavino 2	1977			Flake	Obsidian	7
S-125	1	Yavino 2	1977			Flake	Chert	1
S-125	1	Yavino 2	1977			Flake	Chalcedony	1
S-125	1	Yavino 2	1977			Flake	Andesite	5
S-125	1	Yavino 2	1977			Flake	Schist	1
S-125	2	Yavino 2	1977			Flake	Andesite	19
S-125	2	Yavino 2	1977			Core	Andesite	1
S-125	2	Yavino 2	1977			Core	Chalcedony	1
S-125	2	Yavino 2	1977			Flake	Chert	12
S-125	2	Yavino 2	1977			Flake	Obsidian	17
S-125	2	Yavino 2	1977			Retouched flake	Obsidian	2
S-125	2	Yavino 2	1977			Retouched flake	Chert	2
S-125	2	Yavino 2	1977			Pebble	Andesite	1
S-125	2	Yavino 2	1977			Flake	Schist	1
S-125	2	Yavino 2	1977			Core	Siltstone	1
S-125	2	Yavino 2	1977			Flake	Andesite	2
S-125	2	Yavino 2	1977			Flake	Chalcedony	28
S-125	2	Yavino 2	1977			Chip	Chalcedony	1
S-125	2	Yavino 2	1977			Core	Chalcedony	1
S-125	2	Yavino 2	1977			Flake	Siltstone	1
S-125	2	Yavino 2	1977			Retouched flake	Chalcedony	1
S-125	3	Yavino 2	1977			Flake	Andesite	4
S-125	3	Yavino 2	1977			Retouched flake	Chert	2
S-125	3	Yavino 2	1977			Flake	Obsidian	4
S-125	3	Yavino 2	1977			Flake	Chalcedony	3
S-126	1	Koshegochek	1977			Flake	Andesite	77
S-126	1	Koshegochek	1977			Flake	Chert	33
S-126	1	Koshegochek	1977			Flake	Chalcedony	21
S-126	1	Koshegochek	1977			Flake	Obsidian	110
S-126	1	Koshegochek	1977			Retouched flake	Chalcedony	1
S-126	1	Koshegochek	1977			Retouched flake	Chert	1
S-126	1	Koshegochek	1977			Chip	Chert	3
S-126	1	Koshegochek	1977			Core	Chert	1
S-126	1	Koshegochek	1977			Chip	Obsidian	6
S-126	1	Koshegochek	1977			Utilized flake	Obsidian	2
S-126	1	Koshegochek	1977			End scraper	Obsidian	1

Box	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-126	1	Koshegochek	1977			Retouched flake	Obsidian	1
S-126	2	Koshegochek	1977			Flake	Andesite	19
S-126	2	Koshegochek	1977			Flake	Obsidian	69
S-126	2	Koshegochek	1977			Flake	Chalcedony	10
S-126	2	Koshegochek	1977			Flake	Schist	3
S-126	2	Koshegochek	1977			Core	Andesite	2
S-126	2	Koshegochek	1977			Retouched flake	Andesite	1
S-126	2	Koshegochek	1977			Retouched flake	Chert	1
S-126	2	Koshegochek	1977			Core	Chalcedony	1
S-126	2	Koshegochek	1977			Utilized flake	Obsidian	3
S-126	2	Koshegochek	1977			Retouched flake	Obsidian	5
S-127	1	Andrianovka	1975			Flake	Andesite	19
S-127	1	Andrianovka	1975			Core	Andesite	1
S-127	1	Andrianovka	1975			Flake	Obsidian	3
S-127	1	Andrianovka	1975			Core	Chert	1
S-127	1	Andrianovka	1975			Flake	Chert	1
S-127	1	Andrianovka	1975			Core	Chalcedony	1
S-127	2	Andrianovka	1975			Flake	Obsidian	1
S-127	2	Andrianovka	1975			Core	Chert	3
S-127	2	Andrianovka	1975			Pebble	Siltstone	2
S-128	1	Lopatka I	1973			Flake	Andesite	1
S-128	1	Lopatka I	1973			Pebble	Chert	1
S-129	1	Yavino 3	1979			Flake	Obsidian	85
S-129	1	Yavino 3	1979			Retouched flake	Obsidian	5
S-129	1	Yavino 3	1979			End scraper	Obsidian	2
S-129	1	Yavino 3	1979			Arrowhead	Obsidian	1
S-129	1	Yavino 3	1979			Utilized flake	Obsidian	4
S-129	1	Yavino 3	1979			Flake	Andesite	8
S-129	1	Yavino 3	1979			Flake	Chalcedony	4
S-129	1	Yavino 3	1979			Chip	Obsidian	6
S-129	1	Yavino 3	1979			Retouched flake	Andesite	2
S-129	1	Yavino 3	1979			Flake	Chert	2
S-129	1	Yavino 3	1979			Chip	Andesite	1
S-129	1	Yavino 3	1979			Flake	Shale	1
S-129	1	Yavino 3	1979			Bead	Tuff	1
S-129	2	Yavino 4	1979			Core	Obsidian	1
S-129	2	Yavino 4	1979			Flake	Obsidian	3
S-129	2	Yavino 4	1979			Flake	Obsidian	3
S-129	2	Yavino 4	1979			Pebble	Pumice	1
S-129	3	Yavino 4	1979			Flake	Obsidian	18
S-129	3	Yavino 4	1979			Retouched flake	Obsidian	2
S-129	3	Yavino 4	1979			Utilized flake	Obsidian	2
S-129	3	Yavino 4	1979			Flake	Andesite	6
S-129	3	Yavino 4	1979			Core	Andesite	1
S-129	3	Yavino 4	1979			Flake	Chert	2
S-129	3	Yavino 4	1979			Arrowhead	Obsidian	1
S-129	4	Yavino 9	1979			Chip	Andesite	5
S-129	4	Yavino 9	1979			Flake	Andesite	71
S-129	4	Yavino 9	1979			Core	Andesite	1
S-129	4	Yavino 9	1979			Retouched flake	Andesite	4
S-129	4	Yavino 9	1979			Arrowhead	Andesite	2
S-129	4	Yavino 9	1979			Flake	Chert	5
S-129	4	Yavino 9	1979			Arrowhead	Chert	2
S-129	4	Yavino 9	1979			Core	Chert	1
S-129	4	Yavino 9	1979			Flake	Obsidian	41
S-129	4	Yavino 9	1979			Retouched flake	Obsidian	3
S-129	5	Yavino 9	1979			Flake	Andesite	72
S-129	5	Yavino 9	1979			Core	Andesite	10
S-129	5	Yavino 9	1979			Retouched flake	Andesite	3
S-129	5	Yavino 9	1979			Utilized flake	Andesite	1
S-129	5	Yavino 9	1979			Arrowhead	Andesite	1
S-129	5	Yavino 9	1979			Flake	Obsidian	30
S-129	5	Yavino 9	1979			Chip	Obsidian	2

Box ID	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-129	5	Yavino 9	1979			Retouched flake	Obsidian	2
S-129	5	Yavino 9	1979			Flake	Chert	20
S-129	5	Yavino 9	1979			Retouched flake	Chert	2
S-129	5	Yavino 9	1979			Utilized flake	Chert	1
S-129	5	Yavino 9	1979			Pebble	Andesite	1
S-129	6	Yavino 7	1979			Flake	Obsidian	36
S-129	6	Yavino 7	1979			Retouched flake	Obsidian	2
S-129	6	Yavino 7	1979			Flake	Andesite	5
S-129	6	Yavino 7	1979			Flake	Chert	3
S-129	6	Yavino 7	1979			Flake	Chalcedony	5
S-129	6	Yavino 7	1979			Core	Andesite	1
S-129	6	Yavino 7	1979			Flake	Shale	5
S-129	6	Yavino 7	1979			Chip	Obsidian	3
S-130	1	Andrianovka	1973			Core	Chert	3
S-130	1	Andrianovka	1973			Flake	Chert	40
S-130	1	Andrianovka	1973			Flake	Chalcedony	9
S-130	1	Andrianovka	1973			Core	Obsidian	2
S-130	1	Andrianovka	1973			Flake	Obsidian	40
S-130	2	Andrianovka	1973			Pebble	Pumice	1
S-130	3	Andrianovka	1973			Flake	Chert	1
S-130	4	Andrianovka	1973			Flake	Obsidian	1
S-130	5	Andrianovka	1973			Flake	Obsidian	1
S-130	5	Andrianovka	1973			Core	Chert	1
S-130	6	Andrianovka	1973			Flake	Obsidian	2
S-130	6	Andrianovka	1973			Retouched flake	Obsidian	1
S-130	7	Andrianovka	1973			Flake	Obsidian	6
S-130	7	Andrianovka	1973			Flake	Chert	9
S-130	7	Andrianovka	1973			Flake	Chalcedony	7
S-130	7	Andrianovka	1973			Core	Chert	3
S-130	7	Andrianovka	1973			Core	Andesite	1
S-130	7	Andrianovka	1973			Core	Chalcedony	1
S-130	8	Andrianovka	1973			Pebble	Pumice	1
S-130	8	Andrianovka	1973			Core	Obsidian	1
S-130	8	Andrianovka	1973			Flake	Shale	14
S-130	8	Andrianovka	1973			Flake	Chert	2
S-130	8	Andrianovka	1973			Pebble	Pumice	1
S-130	8	Andrianovka	1973			Flake	Obsidian	5
S-130	8	Andrianovka	1973			Core	Obsidian	1
S-130	8	Andrianovka	1973			Flake	Andesite	9
S-130	9	Andrianovka	1973			Flake	Schist	2
S-130	9	Andrianovka	1973			Flake	Obsidian	11
S-130	9	Andrianovka	1973			Flake	Chert	21
S-130	9	Andrianovka	1973			Flake	Andesite	4
S-130	9	Andrianovka	1973			Flake	Chalcedony	23
S-130	9	Andrianovka	1973			Retouched flake	Chert	1
S-130	9	Andrianovka	1973			Core	Chert	1
S-130	9	Andrianovka	1973			Core	Obsidian	2
S-130	9	Andrianovka	1973			Flake	Tuff	1
S-130	10	Andrianovka	1973			Flake	Obsidian	125
S-130	10	Andrianovka	1973			Chip	Obsidian	7
S-130	10	Andrianovka	1973			Core	Obsidian	2
S-130	10	Andrianovka	1973			Flake	Chert	89
S-130	10	Andrianovka	1973			Flake	Chalcedony	69
S-130	10	Andrianovka	1973			Chip	Chalcedony	5
S-130	10	Andrianovka	1973			Core	Andesite	2
S-130	10	Andrianovka	1973			Flake	Andesite	4
S-130	10	Andrianovka	1973			Chip	Chert	24
S-130	10	Andrianovka	1973			Pebble	Pumice	1
S-130	10	Andrianovka	1973			Pebble	Andesite	1
S-130	10	Andrianovka	1973			Core	Chert	2
S-130	10	Andrianovka	1973			Point	Chert	1
S-130	10	Andrianovka	1973			Arrowhead	Chert	1
S-131	1	Yavino 7	1979			Flake	Obsidian	25

Box ID	Sub-box ID	Site name	Year	Unit	Level	Artifact class	Stone	Count
S-131	1	Yavino 7	1979			Chip	Obsidian	2
S-131	1	Yavino 7	1979			Point	Obsidian	1
S-131	1	Yavino 7	1979			Flake	Andesite	5
S-131	1	Yavino 7	1979			Pebble	Pumice	1
S-131	1	Yavino 7	1979			Core	Andesite	1
S-131	2	Yavino 4	1979			Retouched flake	Chalcedony	1
S-131	3	Yavino 3	1979			Core	Andesite	1
S-131	3	Yavino 3	1979			Flake	Obsidian	6
S-131	3	Yavino 3	1979			Arrowhead	Obsidian	1
S-131	3	Yavino 3	1979			End scraper	Obsidian	1
S-131	3	Yavino 3	1979			Retouched flake	Obsidian	1
S-131	3	Yavino 3	1979			Utilized flake	Obsidian	1
S-131	3	Yavino 3	1979			Flake	Andesite	2
S-131	3	Yavino 3	1979			Flake	Chalcedony	1
S-131	4	Yavino 7	1979			Flake	Obsidian	7
S-131	4	Yavino 7	1979			Flake	Andesite	4
S-131	5	Yavino 3	1979			Flake	Andesite	2
S-131	5	Yavino 3	1979			Core	Andesite	2
S-131	5	Yavino 7	1979			Flake	Obsidian	4
S-131	5	Yavino 7	1979			Side scraper	Obsidian	1
S-131	5	Yavino 7	1979			Flake	Chert	1
S-131	6	Yavino 3	1979			Core	Andesite	5
S-131	6	Yavino 3	1979			Flake	Andesite	16
S-131	6	Yavino 3	1979			Stemmed scraper	Andesite	1
S-131	6	Yavino 3	1979			Flake	Obsidian	11
S-131	6	Yavino 3	1979			Point	Obsidian	3
S-131	6	Yavino 3	1979			End scraper	Obsidian	1
S-131	6	Yavino 3	1979			Retouched flake	Obsidian	1
S-131	6	Yavino 3	1979			Retouched flake	Andesite	3
S-131	6	Yavino 3	1979			End scraper	Chert	1
S-131	6	Yavino 3	1979			Flake	Chalcedony	1
S-131	6	Yavino 3	1979			Retouched flake	Chalcedony	1
S-131	6	Yavino 3	1979			Retouched flake	Chert	1
S-131	6	Yavino 3	1979			Drill	Chert	1
S-131	6	Yavino 3	1979			Pebble	Chert	1
S-131	7	Yavino 4	1979			Core	Andesite	2
S-131	7	Yavino 4	1979			Flake	Andesite	4
S-131	7	Yavino 4	1979			Flake	Obsidian	10
S-131	7	Yavino 4	1979			Utilized flake	Obsidian	1
S-131	7	Yavino 4	1979			Retouched flake	Obsidian	3
S-131	7	Yavino 4	1979			Flake	Andesite	5
S-131	7	Yavino 4	1979			Flake	Chert	1
S-131	7	Yavino 4	1979			Pebble	Pumice	4
S-131	7	Yavino 4	1979			Flake	Siltstone	3
S-131	7	Yavino 4	1979			Flake	Shale	1
S-131	8	Yavino 7	1979			End scraper	Obsidian	2
S-131	8	Yavino 7	1979			Utilized flake	Obsidian	1
S-131	8	Yavino 7	1979			Retouched flake	Obsidian	1
S-131	8	Yavino 7	1979			Flake	Obsidian	10
S-131	8	Yavino 7	1979			Core	Chert	1
S-131	8	Yavino 7	1979			Flake	Shale	3
S-131	8	Yavino 7	1979			Pebble	Chalcedony	1
S-131	8	Yavino 7	1979			Flake	Obsidian	10
S-131	8	Yavino 7	1979			Flake	Andesite	1
S-132	1	Elizovo	1962			Retouched flake	Obsidian	3
S-132	1	Elizovo	1962			Flake	Obsidian	9
S-132	1	Elizovo	1962			Stemmed scraper	Chalcedony	1
S-132	1	Elizovo	1962			Retouched flake	Chalcedony	1
S-132	1	Elizovo	1962			Grinding stone	Sandstone	2
S-132	1	Elizovo	1962			Flake	Shale	3
S-132	1	Elizovo	1962			Core	Shale	1
S-132	1	Elizovo	1962			Point	Chert	1
S-132	1	Elizovo	1962			Stemmed scraper	Andesite	1

Box	Sub-	Site name	Year	Unit	Level	Artifact class	Stone	Count
	box ID							
S-132	1	Elizovo	1962			Adze	Schist	2
S-132	2	Elizovo	1962			Flake	Shale	17
S-132	2	Elizovo	1962			Core	Andesite	1
S-132	2	Elizovo	1962			Core	Obsidian	1
S-132	2	Elizovo	1962		Utilized flake		Chalcedony	1
S-132	2	Elizovo	1962			Hummer	Andesite	1
S-132	3	Elizovo	1962			Flake	Shale	19
S-132	3	Elizovo	1962			Flake	Andesite	2
S-132	3	Elizovo	1962		Retouched flake		Shale	1
S-132	3	Elizovo	1962			Flake	Obsidian	17
S-132	3	Elizovo	1962			Point	Obsidian	1
S-132	3	Elizovo	1962		Stemmed scraper		Chert	1
S-132	3	Elizovo	1962			Point	Chert	1

Appendix III: Box inventory of bone tools

Box ID	Specimen ID	Sub ID	Site name	Yaer	Taxa	Element	Artifact class	Count
45	1		Shestaja rechka	1972	Walrus	Tusk	Pendant	1
2	25	1	Lopatka I	1972	Sea mammal	Undetermined	Wedge	4
2	25	3	Lopatka I	1972	Sea mammal	Undetermined	Pendant	1
2	45	3	Lopatka I	1972	Whale	Undetermined	Wedge	1
2	47		Lopatka I	1972	Mammal	Undetermined	Bone arrowhead	1
3	62		Lopatka III	1973	Whale	Undetermined	Bone adze	1
4	63		Lopatka I		Whale	Rib	Bone adze (unfinished)	1
7	72		Lopatka II	1972	Sea mammal	Undetermined	Pointed weapon (unfinished)	1
7	73		Lopatka II	1972	Caribou	Antler	Bone arrowhead (unfinished)	1
9	74		Lopatka IV	1972	Land mammal	Undetermined	Bone arrowhead	1
9	75		Lopatka IV	1972	Land mammal	Undetermined	Bone arrowhead	1
12	142		Lopatka I	1975	Sea mammal	Undetermined	Foreshaft	1
12	143		Andrianovka	1975	Gull	Ulna	Needle	1
12	144		Lopatka I	1975	Sea mammal	Undetermined	Foreshaft	1
13	157	4	Lopatka I, II	1975	Mammal	Undetermined	Harpoon head (unfinished)	1
13	157	6	Lopatka I, II	1975	Mammal	Undetermined	Wedge	1
13	162		Lopatka I	1973	Caribou	Antler	Wedge	1
14	195		Lopatka I	1975	Mammal	Undetermined	Bone arrowhead	1
14	196		Lopatka I	1975	Bird	Ulna	Needle case	1
14	197		Lopatka I	1973	Mammal	Undetermined	Unknown bone product	1
14	198		Lopatka I	1973	Caribou	Antler	Bone arrowhead	1
14	199		Lopatka I	1973	Mammal	Tooth/tusk?	Unknown bone product	1
14	200		Andrianovka	1975	Caribou	Antler	Unknown bone product	1
14	201		Lopatka I	1973	Sea mammal	Undetermined	Bone arrowhead	1
14	202		Lopatka I	1975	Mammal	Undetermined	Bone arrowhead	1
14	203		Lopatka I	1975	Bird	Undetermined	Needle	1
14	204		Lopatka I	1973	Bird	Radius	Needle	1
14	205		Lopatka I	1975	Mammal	Tooth/tusk?	Comb	1
43	208		Lopatka III		Caribou	Antler	Wedge	1
15	212		Lopatka I	1973	Sea mammal	Undetermined	Bone arrowhead	1
15	215		Lopatka I	1973	Caribou	Antler	Bone adze	1
15	216		Lopatka I	1973	Sea mammal	Undetermined	Bone knife	1
15	217		Lopatka II		Vertebrate	Undetermined	Bone arrowhead	1
15	218		Andrianovka		Vertebrate	Undetermined	Harpoon head (unfinished)	1
15	219		Lopatka I	1973	Sea mammal	Undetermined	Harpoon head (unfinished)	1
18	254		Lopatka I	1973	Whale	Rib?	Wedge	1
20	393		Andrianovka	1975	Caribou	Antler	Wedge	1
20	395	2	Andrianovka	1975	Whale	Undetermined	Wedge	1

Box ID	Specimen ID	Sub ID	Site name	Yaer	Taxa	Element	Artifact class	Count
20	396		Andrianovka	1975	Hawk/eagle	Humerus	Needle	1
20	397	4	Andrianovka	1975	Whale	Undetermined	Wedge	5
20	398		Andrianovka	1975	Whale	Undetermined	Foreshaft	1
20	403	2	Andrianovka	1975	Whale	Undetermined	Wedge	1
20	403	3	Andrianovka	1975	Whale	Undetermined	Wedge	1
20	403	5	Andrianovka	1975	Caribou	Antler	Wedge	1
20	404		Andrianovka	1975	Whale	Undetermined	Spear head	1
20	407		Andrianovka	1975	Caribou	Antler	Harpoon head	1
42	408		Zhupanovo	1980	Sea mammal	Undetermined	Fishhook	1
20	410		Andrianovka	1975	Bird	Undetermined	Needle	1
23	444	1	Andrianovka	1975	Bird	Humerus?	Needle	1
23	445		Andrianovka	1975	Sea mammal	Undetermined	Foreshaft (unfinished)	1
23	446		Andrianovka	1975	Land mammal	Undetermined	Bone arrowhead	1
23	447		Andrianovka	1975	Caribou	Antler	Fishhook shank	1
23	448		Andrianovka	1975	Hawk/eagle	Radius	Needle	1
23	449		Andrianovka	1975	Caribou	Antler	Fishhook shank	1
23	450	1	Andrianovka	1975	Sea mammal	Undetermined	Harpoon head (unfinished)	1
23	452		Andrianovka	1975	Bird	Undetermined	Bone arrowhead	1
23	453		Andrianovka	1975	Sea mammal	Rib?	Bone adze	1
42	457		Zhupanovo	1979	Sea mammal	Undetermined	Bone stick	1
42	458	2	Zhupanovo	1979	Caribou	Antler	Pointed weapon	1
25	459		Andrianovka	1973	Sea mammal	Undetermined	Wedge	1
26	461		Lopatka I	1975	Caribou	antler	Bow nock	1
27	462		Andrianovka	1975	Albatross	Humerus	Needle case	1
27	463		Andrianovka	1975	Caribou	Antler	Comb	1
27	464		Lopatka	1972	Sea mammal	Undetermined	Bone arrowhead	1
27	465		Andrianovka	1975	Caribou	Antler	Comb	1
27	466		Andrianovka	1975	Caribou	Antler	Bone stick	1
27	467		Andrianovka	1975	Sea mammal	Undetermined	Bone adze	1
27	468		Andrianovka	1975	Bird	Humerus	Needle case	1
27	469		Andrianovka	1975	Caribou	Antler	Toggle	1
27	470		Andrianovka	1975	Mammal	Undetermined	Harpoon head	1
27	471		Andrianovka	1975	Mammal	Undetermined	Harpoon head	1
27	472		Andrianovka	1975	Cormorant	Radius	Needle	1
27	473		Andrianovka	1975	Caribou	Antler	Harpoon head	1
27	474		Andrianovka	1975	Caribou	Antler	Foreshaft	1
27	475		Andrianovka	1975	Sea mammal	Undetermined	Foreshaft	1
27	476		Andrianovka	1975	Bird	Undetermined	Needle	1
27	477		Andrianovka	1975	Mammal	Undetermined	Bone arrowhead	1

Box ID	Specimen ID	Sub ID	Site name	Yaer	Taxa	Element	Artifact class	Count
27	478		Andrianovka	1975	Sea mammal	Rib/fibula?	Bone arrowhead	1
27	479		Andrianovka	1975	Bird	Radius	Needle	1
27	480		Andrianovka	1975	Mammal	Undetermined	Harpoon head	1
27	481		Andrianovka	1975	Caribou	Antler	Pendant	1
27	482		Andrianovka	1975	Bird	Undetermined	Needle	1
27	483		Andrianovka	1975	Bird	Undetermined	Needle	1
27	484		Andrianovka	1975	Bird	Undetermined	Bone arrowhead	1
27	485		Andrianovka	1975	Bird	Undetermined	Needle	1
27	486		Andrianovka	1975	Bird	Undetermined	Bone arrowhead	1
27	487		Andrianovka	1975	Bird	Undetermined	Bone arrowhead	1
27	488		Andrianovka	1975	Mammal	Undetermined	Bone arrowhead	1
27	489		Andrianovka	1975	Bird	Undetermined	Bone arrowhead	1
27	490		Andrianovka	1975	Caribou	Antler	Bone adze	1
27	491		Andrianovka	1975	Bird	Undetermined	Needle	1
27	492		Andrianovka	1975	Caribou	Antler	Unknown bone product	1
27	493		Andrianovka	1975	Caribou	Antler	Unknown bone product	1
27	494		Andrianovka	1975	Sea mammal	Undetermined	Bone arrowhead	1
27	497		Andrianovka	1975	Caribou	Antler	Wedge	1
27	498		Andrianovka	1975	Sea mammal	Undetermined	Wedge	1
27	499		Andrianovka	1975	Sea mammal	Undetermined	Wedge	1
27	500		Andrianovka	1975	Sea mammal	Undetermined	Wedge	1
27	501		Andrianovka	1975	Sea mammal	Undetermined	Wedge	1
27	502	4	Andrianovka	1975	Whale	Undetermined	Wedge	3
27	503	1	Andrianovka	1975	Whale	Undetermined	Wedge	1
27	503	2	Andrianovka	1975	Sea mammal	Undetermined	Pointed weapon	2
27	504	1	Andrianovka	1975	Caribou	Antler	Wedge	1
27	505		Andrianovka	1975	Sea mammal	Undetermined	Wedge	1
29	530		Andrianovka	1975	Whale	Undetermined	Wedge	1
29	531		Andrianovka	1975	Whale	Rib	Adze socket	1
39	632		Kirpichnaja		Albatross	CMC	Needle	1
27	652		Andrianovka	1975	Bird	Undetermined	Needle	1
42	664		Zhupanovo	1979	Bird	Undetermined	Needle	1
42	665		Zhupanovo	1979	Vertebrate	Undetermined	Bone arrowhead	1
42	667		Zhupanovo	1979	Fur seal	Sternabura, xiphoid	Bone stick	1
42	668		Zhupanovo	1979	Sea mammal	Rib	Bone stick	3
42	677		Zhupanovo	1979	Sea mammal	Undetermined	Pointed weapon	1
14	727		Avacha	1975	Mammal	Undetermined	Harpoon head	1
14	728		Avacha	1975	Mammal	Undetermined	Harpoon head	1

Box ID	Specimen ID	Sub ID	Site name	Yaer	Taxa	Element	Artifact class	Count
46	734	5	Lopatka I	1973	Mammal	Undetermined	Pointed weapon	1
46	734	9	Andrianovka	1973	Caribou	Antler	Handle of iron knife	1
46	734	10	Andrianovka	1973	Caribou	Antler	Comb	1
46	734	11	Lopatka I	1973	Bird	Radius	Needle	1
46	734	13	Lopatka I	1973	Caribou	Antler	Ornament	1
46	734	14	Lopatka I	1973	Mammal	Undetermined	Needle	1
46	734	15	Lopatka I	1973	Caribou	Antler	Bone arrowhead	1
46	734	16	Lopatka I	1973	Caribou	Antler	Bone arrowhead	1
46	734	17	Lopatka I	1973	Caribou	Antler	Harpoon head	1
46	734	18	Lopatka I	1973	Mammal	Undetermined	Bone arrowhead	1
46	734	19	Lopatka I	1973	Caribou	Antler	Bone arrowhead	1
46	734	20	Lopatka I	1973	Caribou	Antler	Bone arrowhead	1
46	734	21	Lopatka I	1973	Bird	Undetermined	Bone arrowhead	1
46	734	22	Lopatka I	1973	Caribou	Antler	Harpoon head	1
46	734	23	Lopatka I	1973	Bird	Undetermined	Needle	1
46	734	24	Lopatka I	1973	Bird	Undetermined	Needle	1
46	734	25	Lopatka I	1973	Bird	Undetermined	Bone arrowhead	1
46	734	26	Lopatka I	1973	Bird	Undetermined	Bone arrowhead	1
-	735	B-16	Lopatka I	1973	Caribou	Antler	Harpoon head	1
-	735	B-17	Lopatka I	1973	Caribou	Antler	Harpoon head (unfinished)	1
-	735	B-18	Lopatka I	1973	Caribou	Antler	Harpoon head	1
-	735	B-19	Lopatka I	1973	Caribou	Antler	Harpoon head	1
-	735	B-20	Lopatka I	1973	Caribou	Antler	Harpoon head	1
-	735	B-21	Lopatka I	1973	Sea mammal	Undetermined	Spear head	1
-	735	B-22	Lopatka I	1973	Sea mammal	Undetermined	Spear head	1
-	735	B-23	Lopatka I	1973	Caribou	Antler	Toggle	1
S-56	736	4	Andrianovka	1975	Mammal	Undetermined	Toggle	1

Material of bone tools was identified by Dr. Masaki Eda and Dr. Michael Etnier.