

BEYOND BALKANIZATION

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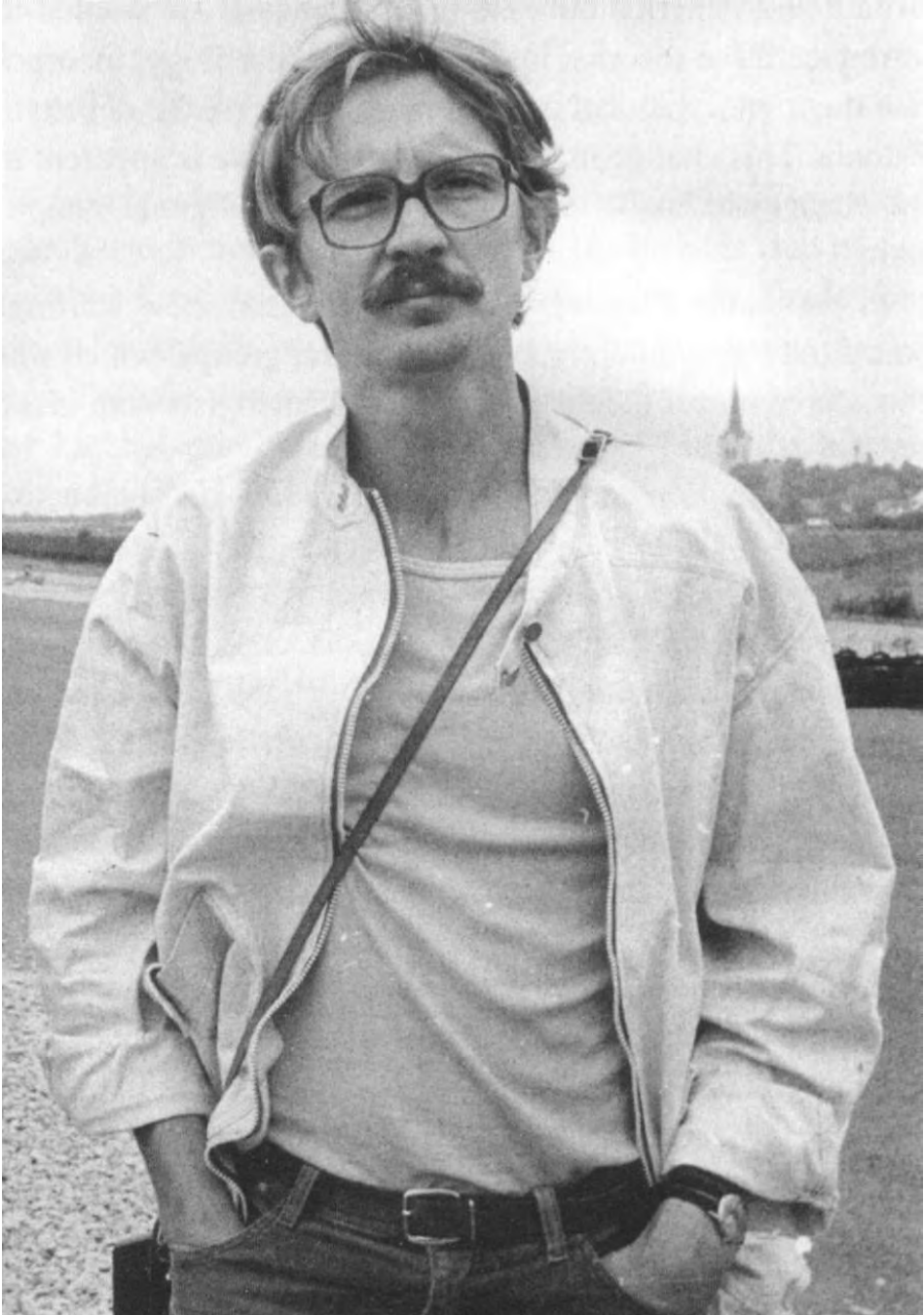
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In Memoriam Priit Ligi (24 May 1958 — 28 September 1994)

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Editor's Foreword

This volume contains the majority of the papers presented during a conference that took place on 16th-21st May, 1997 in Łódź, Poland. The conference was organized by the Institute of Archaeology, University of Łódź and Département d'anthropologie, Université de Montréal (Canada). The conference was funded by the University of Łódź and by IREX (International Research & Exchanges Board), which also supported this publication. The publication was partly founded by the University of Łódź and by the Foundation of Adam Mickiewicz University, too.

The major questions of the conference were, 1) what is the current evidence for eastern or southern influences in the development of eastern European Mesolithic and Neolithic populations, and 2) to what extent are current political trends, especially the reassertion or, in some cases, the creation of ethnic and national identities, influencing our interpretations of the prehistoric data.

The idea for such a conference came into being through the co-organizers' long-term studies of the development of those prehistoric human populations which inhabited the vast region stretching north and east from the Oder river and Carpathian Mountains to the foothills of the Urals. In a tradition established in modern times by Gordon Childe, virtually all of the transformations of Eastern Europe's Neolithic Age human landscape have been assumed to be responses to prior developments in the Balkan peninsula and Danube basin. We think that a body of new evidence requires a renewed analysis of the distributions of cultural products, peoples, and ideas across Eastern Europe during the Mesolithic through the Early Metal Age within a much wider geographic context than previously has been the case. This includes giving adequate attention to the far-ranging interactions of communities between the Pontic and Baltic area with those located in both the Caucasus and the Aralo-Caspian regions.

We hope that this volume will contribute to such a redirection of future analyses.

Lucyna Domańska
Ken Jacobs

Editorial comment

1. All dates in the *B-PS* are calibrated [see: *Radiocarbon* vol.28, 1986, and the next volumes] (other versions are cited for the wish of authors). Deviations from this rule will be point out in notes.

2. The names of the archaeological cultures (especially from the territory of the Ukraine) are standarized according to the English literature on the subject (e.g. Mallory 1989). In the case of a new term, the author's original name has been retained.

Valeriy I. Khartanovich

NEW CRANIOLOGICAL MATERIAL ON THE SAAMI FROM THE KOLA PENINSULA

The Saami¹ — the most ancient population of the extreme north of the Old World — is one of the best studied and at the same time one of the most mysterious folks in the world. Probably, judging by the interest to their origin, the amount of gathered information on them in different fields of anthropology, archaeology, linguistics and ethnography, they can be compared only to Ainus — the main enigma of the Asian part of the Continent.

The problem of the Saami' origin started to attract attention of the European researchers soon after their getting acquainted with the Saami' original culture and specific appearance. This attention may be explained by the fact that the low dark-haired Saami looked very unusual among tall northern europeoids with weak pigmentation. In the early anthropological classifications the Saami who differed obviously from the surrounding European population and from the distant Asian population were distinguished in an independent taxonomic unit, standing by itself apart from europeoids as well as from mongoloids. Even K. Linney assigned the Saami to an independent "big" race. Topinar considered them as hiperboreans, and Deniker distinguished them into the Lapps race. Coon also considered the Saami as an independent race. Researchers explain appearing of the anthropological features specific for West-Europeans among the Saami by the long isolation of this folk on the extreme northern territories of Europe.

As methods in anthropology develop and theories of features taxonomically important for distinguishing mongoloids from europeoids devise and basis of sources on this material widens it started to turn out that almost in all the anthropological systems the Saami have a number of indices bringing them together with representatives of the mongoloid race. Some features of that kind could be observed in some other groups of the former USSR north-west population, modern as well as ancient starting from the Mesolithic epoch. Soviet researchers who had gathered and studied a vast and manifold anthropological material from East Europe, pre-Ural region and Western Siberia pointed out the reinforcement of features bringing the population of this area together with Mongoloids in the direction from west to east.

¹ The Saami nowadays inhabit northern Sweden (30 000 people), northern Norway (15 000 people) and northern Finland (5000 people). About 2000 of Saami live in Russia — on the Kola Peninsula.

Basing on these facts Soviet anthropologists put forward and proved the theory of ancient groups penetration on the territory of North-West Russia and Baltic states in ancient times and of an essential influence of this penetration on the process of the anthropological type formation of the population on this territory [Vitov, *et al.* 1959; Alekseev 1969; Denisova 1975].

Mongrel conception that seems to explain the causes of origin of “Asian” features among west European population very simply and logically received wide distribution at first in anthropology and then in other sciences and humanities dealing with ethnic genesis and ethnic history, mainly in archaeology. But here it was often based not on the factological material itself which was sometimes contrary to it but on the conclusions of anthropologists. In anthropology the tendency for overstatement of the the diagnostical role of features describing profile of a facial skeleton (basic marks of differences between europeoids and mongoloids on cranio-logical material) had led to the fact that the presence of at least one morphological element stating even a low flattening of face or bridge of nose in ancient or modern series of skulls from East Europe was sometimes considered as almost an absolute evidence of presence of mongoloid admixture in such groups.

We should mention that in Russian anthropology this mongrel theory is neither the only one nor the generally accepted one. There was put forward and proved the hypothesis stating that the similarity of some European groups with Asian groups based on features of horizontal face profile not always proves that new-comers from East took part in their genesis [Bunak 1956; 1980; Yakimov 1960a; 1960b; Gokhman 1984; 1986]. The researchers sharing this point of view on the nature of the race forming process in west part of Eurasia emphasize two main circumstances that call into question the universality of the mongrel conception.

First of all, anthropological type of populations with the “suspicion” on the mongoloid admixture is as a rule morphologically discrepant: similar to Mongoloids according to a number of features they differ from them distinctly according to other features. Secondly, features similar to mongoloid were found not only in East Europe and Baltic states where appearance of migrants in ancient times can be admitted. These features, starting from the Upper Palaeolithic, can be also found among populations of such territories as West and South Europe (Denmark, Sweden, Yugoslavia, Czech [Gokhman 1986]) and the penetration of big groups of Asian population on these territories from the geographical point of view is improbable and from the point of view of history — not valid. Basing mostly on these contradictions the authors of the second hypothesis explain the “oriental” nature of some features by the fact that the Upper Palaeolithic population of northern Europe had some morphological characteristics outwardly similar to mongoloid but not connected with them genetically. With that it is emphasized that the possibility of penetration of Asian groups of population in the Baltic area can not be entirely excluded but their participation in genesis of East-European population was scarcely essential.

Newly obtained craniological material and the material studied repeatedly according to the modern methods introduce new arguments that prove the validity of

the second hypothesis. For example, craniological collections on Karelians, Komi-Zyrians and Izhora gathered and studied by the author in 70-90 allowed to reveal among them a specific anthropological type very similar with the basic anthropological complex of the ancient north European population which must have been preserved in some areas of North-West Russia up to the present time [Khartanovich 1986; 1992; 1993]. This complex combines such discrepant (from the point of view of division of modern Europeoids and Mongoloids) features as a weak flattering of face on the upper level on one hand and sharp profile on the medium level, high nose bones distinctly projecting to the profile line, and very high cranium on the other hand. In all probability, the only feature bringing the ancient and the modern bearers of this complex of features together with Mongoloids — weakening of the horizontal face profile on the level of the nasion point — is the specific characteristic of the most ancient northern Europeoids which had formed independently from the Asian influence.

The situation with the anthropological characteristics of the other European folk that also reveals some features similar to Mongoloids — the Saami — formed in the other way. First of all, as it has been already mentioned above, they reveal such peculiarities almost in all the systems of anthropological features. Secondly, new anthropological data has pointed to the probability of a single migration of Siberian groups of population on the turn of the new era to the extreme north of Fennoscandia and the Kola Peninsula [Shumkin 1991]. And after all, from craniological point of view the Saami differ distinctly from the Karelians, Komi-Zyrians and Izhora [Khartanovich 1991]. Differences also appear in the features taxonomically important for distinguishing Mongoloids from Europeoids. Together with the weakening of horizontal face profile on the upper level the Saami have a weakened facial skeleton profile on the medium level, nasal bones project to the profile line evidently less (this feature reveals most distinctly in the Kola group from Chalmny-Varre), cranium is very low. All these arguments seem to give enough reasons to admit the mongrel origin of the Saami. But according to some other important anthropological indices the Saami' skulls are opposed to mongoloid ones. In craniology these features are the face height, forehead breadth, size of the nose bridge. Such a discrepant complex of features had led the researchers to the conclusion that if a certain mixture took place in the process of forming the anthropological type of the Saami, then the europeoid component of this mixture had to be corresponded not to the "classical" mongoloid form but to represent the ancient formation which differed from the modern Europeoids and Mongoloids and which was described in the Soviet anthropological school as the "Ural" race.

Thus, it is evident that the problem of the Saami' origin leaves place to discussion. Widening of the craniological material constantly used with the hope that the extension of data will sooner or later allow to receive qualitatively new results is the one of the possible ways of developing of this problem.

Close to contemporinity series of skulls of the Saami from the Kola Peninsula were gathered in 1976-1977 by the north European paleoanthropological team of the Leningrad part of the Institute of Ethnography named after N.N. Miklukho-

-Maklai of the USSR Academy of Science (now — Museum of Anthropology and Ethnography named after Peter the Great [Kunstcamera] of the Russian Academy of Science). There was obtained quite a representative craniological and osteological material on four territorial groups from different districts of the Peninsula [Gokhman, *et al.* 1976; Khartanovich 1980]. In the process of working on this material we received new important information concerning the formation process of the anthropological type of the Kola Saami. There were distinguished some certain differences between the coastal groups of population on one hand and the groups inhabiting internal districts of the Peninsula on the other hand. Anthropological peculiarities of the coastal groups allowed to presume the presence of a later euro-peoid admixture in them and the features of the second type of groups — presence of populations that had the most fully preserved the peculiarities of the Saami initial anthropological complex in the central areas of the Peninsula in the XIX century.

For obtaining additional cranio-osteological material close to contemporaneity especially from the internal districts of the Kola Peninsula there was organized a joint Russian-Swedish archaeologo-anthropological expedition to the Lovozero area of the Murmansk district in 1993. Excavation works, by consent of the local Saami population, were carried out on the non-functioning Saami' cemetery in the Severnaya Salma region. The cemetery was located on the shore of the Lovozero lake at a distance of 15 km from the village of the same name. There were studied nine burials in each of which there were found bones of different levels of integrity. Six skulls appeared to be suitable for craniological analysis. Below we give their basic characteristics (Table 1-2).

Burial N1. The skull of a man aged 40-50. Good integrity. The features of sex dimorphism on the skull are distinct, on the lower jaw-bone — weak. The cranium is of a medium breadth, broad, brachycranial according to the index. Cranium height is small. Forehead bone is of medium breadth, weakly inclined. Facial skeleton is not high, broad, orthognathic according to the common facial angle mesognathic according to the index of face projection. One should also pay attention to the big values of nasomalar and zygomaxillary angles reflecting the considerable degree of the horizontal face flatness on the upper level as well as on the medium level. Eye-sockets are broad and low. Pear-like aperture is mesorhinal. The nose bridge and nose bones are low. The nose projects moderately to the profile line.

Burial N2. The skull of a woman aged 30-40. Good integrity. The features of sex dimorphism are distinct. The cranium is of medium length and height, broad and brachycranial. The forehead is narrow and straight. The face is high, not wide, a little flattered on the upper level in the horizontal plane and wedge-shaped on the medium level, orthognathic by the angle and mesognathic according to the index. Eye-sockets are narrow, of medium height. Eye-socket index is high. The nose is quite high and narrow. The nose bridge and nose bones are narrow and high by the absolute indexes as well as by the indices. The nose projects moderately to the profile line.

Burial N3. The skull of a woman aged 25-30. Good integrity. The features of sex dimorphism are distinct. The skull is extremely gracile which is proved by all the

Individual measurements and indices of male skulls of the Saami of the Kola Peninsula from the Severnaya Salma cemetery

| Martin and other codes | Traits | No of grave | | |
|---------------------------|---|-------------|------|------|
| | | g.1 | g.5 | g.9 |
| 1 | Cranial length | 182 | 176 | 174 |
| 8 | Cranial breadth | 150 | 145 | 138 |
| 8:1 | Cranial index | 82.4 | 82.4 | 79.3 |
| 23a | Horizontal circumference (ophryon) | 558 | 551 | 498 |
| 24 | Transversal arch (porion-bregma-porion) | 325 | 304 | 297 |
| 25 | Sagittal arch | 384 | 340 | 347 |
| 17 | Cranial height (basion-bregma) | 132 | 122 | 127 |
| 17:1 | Height-length index (basion) | 72.5 | 69.3 | 72.9 |
| 17:8 | Height-breadth index (basion) | 88.0 | 84.1 | 92.0 |
| 20 | Cranial height (porion-bregma) | 118 | 107 | 110 |
| 5 | Cranial base length | 94 | 98 | 94 |
| 9 | Minimal frontal breadth | 97 | 97 | 95 |
| 9:8 | Fronto-transversal index | 64.7 | 66.9 | 68.8 |
| 32 | Frontal profile angle (nasion) | 83 | 82 | 88 |
| <g-m | Frontal profile angle (glabella) | 76 | 72 | 80 |
| — | Transverse frontal angle | 141 | 133 | 133 |
| 10 | Maximal frontal breadth | 128 | 119 | 115 |
| 9:10 | Frontal index | 75.8 | 81.5 | 82.6 |
| 26 | Frontal arch | 122 | 119 | 115 |
| 29 | Frontal chord | 111 | 105 | 105 |
| sub.29 | Frontal subtense | 21.1 | 23.9 | 24.7 |
| — | Frontal convexity index | 19.0 | 22.7 | 23.5 |
| 27 | Parietal arch | 114 | 104 | 121 |
| 30 | Parietal chord | 122 | 93 | 108 |
| 11 | Auricular breadth | 130 | 127 | 128 |
| 12 | Occipital breadth | 118 | 114 | 113 |
| 28 | Occipital arch | 122 | 117 | 111 |
| 31 | Occipital chord | 97 | 90 | 94 |
| sub.31 | Occipital subtense | 27.4 | 31.9 | 27.2 |
| — | Occipital convexity index | 28.2 | 35.4 | 28.9 |
| 40 | Basion-prosthion length | 93 | 97 | 95 |
| 40:5 | Face protrusion index | 98.9 | 99.0 | 98.9 |
| 43 | Upper facial breadth | 104 | 107 | 104 |
| 45 | Bizygomatic breadth | 137 | 139 | 127 |
| 45:8 | Transversal facio-cerebral index | 91.3 | 95.8 | 92.0 |
| 46 | Midfacial breadth | 88 | 107 | 92 |
| 48 | Nasion-alveolare height | 68 | 64 | 62 |
| 48:45 | Upper facial index | 49.6 | 46.6 | 48.8 |

| Martin and other codes | Traits | No of grave | | |
|---------------------------|--|-------------|-------|-------|
| | | g.1 | g.5 | g.9 |
| 48:17 | Vertical facio-cerebral index | 51.5 | 52.4 | 48.8 |
| 43(1) | Biorbital chord | 99 | 101 | 98 |
| sub.n/ 43(1) | Nasion projection over biorbital chord | 13.3 | 18.4 | 16.8 |
| 77 | Nasomalar angle | 150 | 140 | 143 |
| zm'-zm' | Zygomaxillary chord | 89 | 101 | 96 |
| sub.ss/ zm'-zm' | Subspinale projection over zygomaxillary chord | 20.4 | 22.7 | 23.7 |
| <zm' | Zygomaxillary angle | 136 | 132 | 129 |
| 72 | Total facial angle | 85 | 86 | 86 |
| 73 | Midfacial angle | 88 | 88 | 89 |
| 51 | Orbital breadth (maxillofrontal)) | 43 | 45 | 42 |
| 51a | Orbital breadth (dacryon) | 41 | 42 | 40 |
| 52 | Orbital height | 33 | 33 | 29 |
| 52:51 | Orbital index (maxillofrontal) | 76.7 | 73.3 | 69.0 |
| 52:51a | Orbital index (dacryon) | 80.4 | 76.7 | 72.5 |
| 54 | Nasal breadth | 26 | 27 | 25 |
| 55 | Nasal height | 54 | 49 | 47 |
| 54:55 | Nasal index | 48.1 | 55.1 | 53.2 |
| SC | Simotic chord | 7.3 | 7.9 | 8.0 |
| SS | Simotic subtense | 2.7 | 4.4 | 3.4 |
| SS:SC | Simotic index | 36.98 | 55.72 | 42.50 |
| DC | Dacrial chord | 22.7 | 25.3 | 22.0 |
| DS | Dacrial subtense | 11.6 | 13.4 | 9.7 |
| DS:DC | Dacrial index | 51.10 | 53.98 | 44.09 |
| 75 | Angle between nasalia and Frankfurt plane | 65? | — | 61 |
| 75(1) | Nasal protrusion angle | 20? | — | 25 |
| 60 | Alveolar arch length | 51 | 53 | 52 |
| 61 | Alveolar arch breadth | 65 | 60 | 60 |
| 61:60 | Alveolar index | 127.5 | 113.2 | 115.4 |
| 62 | Platine length | 47 | 47 | 43 |
| 63 | Platine breadth | 38 | 32 | 37 |
| 63:62 | Platine index | 80.8 | 68.0 | 86.0 |

measuring characteristics. The cranium is very short and narrow, subbrachicranic by the index. The vault of the skull is very low by the absolute measurement as well as in the correlation with the lengthwise and transversal diameters. The forehead bone is narrow and inclined. The face as well as the cranium is very low and is absolute in correlation with the other diameters. The cheek-bone diameter is small

Individual measurements and indices of female skulls of the Saami of the Kola Peninsula from the Severnaya Salma cemetery

| Martin and other codes | Traits | No of grave | | |
|---------------------------|---|-------------|------|-------|
| | | g.3a | g.2 | g.4 |
| 1 | Cranial length | 153 | 175 | 159 |
| 8 | Cranial breadth | 132 | 144 | 134 |
| 8:1 | Cranial index | 86.3 | 82.3 | 84.2 |
| 23a | Horizontal circumference (ophryon) | 502 | 545 | 508 |
| 24 | Transversal arch (porion-bregma-porion) | 277 | 317 | 271 |
| 25 | Sagittal arch | 305 | 350 | 318 |
| 17 | Cranial height (basion-bregma) | 115 | 127 | 117 |
| 17:1 | Height-length index (basion) | 75.2 | 72.0 | 73.7 |
| 17:8 | Height-breadth index (basion) | 87.1 | 88.2 | 87.3 |
| 20 | Cranial height (porion-bregma) | 109 | 112 | 100 |
| 5 | Cranial base length | 92 | 91 | 90 |
| 9 | Minimal frontal breadth | 90 | 89 | 89 |
| 9:8 | Fronto-transversal index | 68.2 | 61.8 | 66.4 |
| 32 | Frontal profile angle (nasion) | 82 | 89 | 84 |
| <g-m | Frontal profile angle (glabella) | 83 | 80 | 88 |
| — | Transverse frontal angle | 131 | 129 | 129 |
| 10 | Maximal frontal breadth | 105 | 113 | 105 |
| 9:10 | Frontal index | 85.7 | 78.8 | 84.7 |
| 26 | Frontal arch | 100 | 128 | 104 |
| 29 | Frontal chord | 92 | 110 | 95 |
| sub.29 | Frontal subtense | 19.8 | 27.8 | 17.2 |
| — | Frontal convexity index | 21.5 | 25.3 | 18.1 |
| 27 | Parietal arch | 108 | 110 | 117 |
| 30 | Parietal chord | 94 | 102 | 99 |
| 11 | Auricular breadth | 117 | 126 | 119 |
| 12 | Occipital breadth | 103 | 119 | 100 |
| 28 | Occipital arch | 97 | 112 | 97 |
| 31 | Occipital chord | 80 | 97 | 83 |
| sub.31 | Occipital subtense | 21.6 | 30.0 | 20.9 |
| — | Occipital convexity index | 27.0 | 30.9 | 25.2 |
| 40 | Basion-prosthion length | 88 | 89 | 90 |
| 40:5 | Face protrusion index | 95.6 | 97.8 | 100.0 |
| 43 | Upper facial breadth | 98 | 94 | 99 |
| 45 | Bizygomatic breadth | 121 | 125 | 123 |
| 45:8 | Transversal facio-cerebral index | 91.2 | 86.8 | 91.2 |
| 46 | Midfacial breadth | 87 | 87 | 89 |
| 48 | Nasion-alveolare height | 56! | 69 | 54! |
| 48:45 | Upper facial index | 46.1 | 55.2 | 43.9 |

| Martin and other codes | Traits | No of grave | | |
|---------------------------|--|-------------|-------|-------|
| | | g.3a | g.2 | g.4 |
| 48:17 | Vertical facio-cerebral index | 48.7 | 54.3 | 46.1 |
| 43(1) | Biorbital chord | 91 | 90 | 95 |
| sub.n/ 43(1) | Nasion projection over biorbital chord 18.1 | 15.9 | 19.3 | |
| 77 | Nasomalar angle | 137 | 141 | 135 |
| zm'-zm' | Zygomaxillary chord | 86 | 89 | 90 |
| sub.ss/ zm'- zm' | Subspinale projection over zygomaxillary chord | 21.8 | 23.7 | 20.4 |
| <zm' | Zygomaxillary angle | 126 | 124 | 131 |
| 72 | Total facial angle | 83 | 89 | 85 |
| 73 | Midfacial angle | 86 | 93 | 89 |
| 51 | Orbital breadth (maxillofrontal)) | 39 | 38 | 37 |
| 51a | Orbital breadth (dacryon) | 39 | 36 | 36 |
| 52 | Orbital height | 32 | 33 | 28 |
| 52:51 | Orbital index (maxillofrontal) | 82.0 | 86.8 | 75.7 |
| 52:51a | Orbital index (dacryon) | 84.2 | 91.6 | 77.8 |
| 54 | Nasal breadth | 23 | 23 | 24 |
| 55 | Nasal height | 44 | 51 | 43 |
| 54:55 | Nasal index | 53.5 | 45.1 | 55.8 |
| SC | Simotic chord | 10.0 | 5.9 | 10.1 |
| SS | Simotic subtense | 4.6 | 3.4 | 4.5 |
| SS:SC | Simotic index | 46.00 | 57.62 | 44.55 |
| DC | Dacrial chord | 17.1 | 18.9 | 20.0 |
| DS | Dacrial subtense | 11.9 | 9.9 | 10.1 |
| DS:DC | Dacrial index | 69.59 | 52.38 | 50.50 |
| 75 | Angle between nasalia and Frankfurt plane | 57? | 64 | 62? |
| 75(1) | Nasal protrusion angle | 26? | 25 | 23? |
| 60 | Alveolar arch length | 54 | 55 | 47 |
| 61 | Alveolar arch breadth | 56 | 60 | 57 |
| 61:60 | Alveolar index | 103.7 | 109.1 | 121.2 |
| 62 | Platine length | 44 | 41 | 44 |
| 63 | Platine breadth | 33 | 38 | 35 |
| 63:62 | Platine index | 75.0 | 92.3 | 79.5 |

by the absolute measurement but in comparison with the transversal diameter of the skull the face breadth should be characterized as medium. The values of angles of horizontal profile points to the wedge shape of the face on both levels. In the vertical plane the facial skeleton is orthognatic. Eye-sockets are narrow, of medium height. The pear-like aperture is very low, narrow but the nose index is high. The

nose bridge is narrow and high. Nose bones are broad and high and project weakly to the profile line.

Burial N4. The skull of a woman aged 18-20. Good integrity. The features of sex dimorphism are distinct. The skull from the burial N4 is morphologically very similar to the skull from the burial N3a which is also proved by measuring characteristics. The visual similarity is so great that it allows to assume that the individuals buried in these two interments were genetically relative. We should especially mention an extremely gracile look of these two skulls.

Burial N5. The skull of a man aged 40-45. Good integrity. The features of sex dimorphism are distinct. The skull is massive, with the distinct relief, with the small lengthwise and big transversal diameters, brachicranic and very low. The forehead is of medium breadth, inclined. The face is very low and broad, a little flattered on both levels. In the vertical plane it is orthognatic by the angle and mesognatic by the index. Eye-sockets are wide and low. The nose is low and broad. The nose bridge and nose bones are broad and high.

Burial N9. The skull of an individual aged 35-45. The skull is gracile. Good integrity. The features of sex dimorphism are discrepant but the sex should be rather distinguished as male. The cranium is short, of medium breadth, mesocranic by the index and very low. The forehead is of medium breadth, straight. The face is very narrow and low, flattered in the horizontal plane on the upper level, in the vertical plane is orthognatic by the general facial angle and mesognatic by the index of face projection. Eye-sockets are of medium breadth, low. The nose is of medium breadth, very low. The nose bridge and nose bones are of medium breadth, not high. Nose bones project moderately to the profile line.

Thus the series is formed by the three male and three female skulls. The average measurements of the skulls from Severnaya Salma are shown in Table 3. Taking into account the small size of the group we should nevertheless point out some of its basic peculiarities.

First of all both male and female skulls are very gracile, most of the lineal measurements should be corresponded to the category of small and very small units. Male craniums are brachycranic, with small lengthwise and high-altitude but high transversal measurements. Facial skeleton is very low but broad and orthognatic by the index of face projection as well as by the general facial angle. According to the European standard the face is and nose bridge are flattered, the nose projects weakly to the profile line. Eye-sockets and the pear-like aperture are low and broad. Female craniums comparing with female ones are even more gracile and brachicranic, with smaller transversal diameters of skull and face and sharper horizontal profile. The peculiarities of female characteristics are probably distinguished by the mentioned above specific individual features of the skulls from burials NN 3a and 4.

It is obvious that such a small series can not be considered as a representative sample of the Lovozero group of the Kola Saami. For similar reasons it is doubtfully advisable to use statistical methods of analysis for its comparative study. Along with it, assuming that this series consists of the casual representatives of the population

Table 3

The average measurements and indices of the Saami skulls from the Kola Peninsula found in the Severnaya Salma cemetery

| Martin and other codes | Traits | Male | | Female | |
|---------------------------|---|------|-------|--------|-------|
| | | n | X | n | X |
| 1 | Cranial length | 3 | 177.3 | 3 | 162.3 |
| 8 | Cranial breadth | 3 | 144.3 | 3 | 136.7 |
| 8:1 | Cranial index | 3 | 81.4 | 3 | 84.3 |
| 23a | Horizontal circumference (ophryon) | 3 | 535.7 | 3 | 518.3 |
| 24 | Transversal arch (porion-bregma-porion) | 3 | 308.7 | 3 | 281.6 |
| 25 | Sagittal arch | 3 | 337.3 | 3 | 308.7 |
| 17 | Cranial height (basion-bregma) | 3 | 127.0 | 3 | 119.7 |
| 17:1 | Height-length index (basion) | 3 | 71.6 | 3 | 73.5 |
| 17:8 | Height-breadth index (basion) | 3 | 83.8 | 3 | 87.5 |
| 20 | Cranial height (porion-bregma) | 3 | 111.7 | 3 | 107.0 |
| 5 | Cranial base length | 3 | 95.3 | 3 | 91.0 |
| 9 | Minimal frontal breadth | 3 | 96.3 | 3 | 89.3 |
| 9:8 | Fronto-transversal index | 3 | 66.8 | 3 | 65.5 |
| 32 | Frontal profile angle (nasion) | 3 | 84.3 | 3 | 85.0 |
| <g-m | Frontal profile angle (glabella) | 3 | 76.0 | 3 | 83.7 |
| — | Transverse frontal angle | 3 | 135.7 | 3 | 129.7 |
| 10 | Maximal frontal breadth | 3 | 120.7 | 3 | 107.7 |
| 9:10 | Frontal index | 3 | 80.0 | 3 | 83.1 |
| 26 | Frontal arch | 3 | 118.7 | 3 | 110.7 |
| 29 | Frontal chord | 3 | 107.0 | 3 | 99.0 |
| sub.29 | Frontal subtense | 3 | 23.1 | 3 | 21.6 |
| — | Frontal convexity index | 3 | 21.6 | 3 | 21.6 |
| 27 | Parietal arch | 3 | 115.0 | 3 | 111.7 |
| 30 | Parietal chord | 3 | 107.7 | 3 | 98.3 |
| 11 | Auricular breadth | 3 | 128.3 | 3 | 120.7 |
| 12 | Occipital breadth | 3 | 111.0 | 3 | 103.7 |
| 28 | Occipital arch | 3 | 116.7 | 3 | 102.0 |
| 31 | Occipital chord | 3 | 93.7 | 3 | 86.7 |
| sub.31 | Occipital subtense | 3 | 28.8 | 3 | 24.2 |
| — | Occipital convexity index | 3 | 30.8 | 3 | 27.7 |
| 40 | Basion-prosthion length | 3 | 95.0 | 3 | 89.0 |
| 40:5 | Face protrusion index | 3 | 94.0 | 3 | 97.8 |
| 43 | Upper facial breadth | 3 | 105.0 | 3 | 96.0 |
| 45 | Bizygomatic breadth | 3 | 134.3 | 3 | 123.0 |
| 45:8 | Transversal facio-cerebral index | 3 | 94.0 | 3 | 89.7 |
| 46 | Midfacial breadth | 3 | 95.7 | 3 | 87.7 |
| 48 | Nasion-alveolare height | 3 | 64.7 | 3 | 59.7 |
| 48:45 | Upper facial index | 3 | 48.1 | 3 | 48.4 |

| Martin and other codes | Traits | Male | | Female | |
|---------------------------|--|------|-------|--------|-------|
| | | n | X | n | X |
| 48:17 | Vertical facio-cerebral index | 3 | 50.9 | 3 | 49.7 |
| 43(1) | Biorbital chord | 3 | 99.3 | 3 | 91.3 |
| sub.n/ 43(1) | Nasion projection over biorbital chord | 3 | 16.0 | 3 | 17.8 |
| 77 | Nasomalar angle | 3 | 144.3 | 3 | 137.7 |
| zm'-zm' | Zygomaxillary chord | 3 | 95.3 | 3 | 88.3 |
| sub.ss/ zm'-zm' | Subspinale projection over zygomaxillary chord | 3 | 22.3 | 3 | 22.0 |
| <zm' | Zygomaxillary angle | 3 | 132.3 | 3 | 127.0 |
| 72 | Total facial angle | 3 | 85.7 | 3 | 85.3 |
| 73 | Midfacial angle | 3 | 88.3 | 3 | 88.0 |
| 51 | Orbital breadth (maxillofrontal)) | 3 | 43.3 | 3 | 38.0 |
| 51a | Orbital breadth (dacryon) | 3 | 41.0 | 3 | 36.7 |
| 52 | Orbital height | 3 | 31.7 | 3 | 31.0 |
| 52:51 | Orbital index (maxillofrontal) | 3 | 73.0 | 3 | 81.5 |
| 52:51a | Orbital index (dacryon) | 3 | 76.5 | 3 | 84.5 |
| 54 | Nasal breadth | 3 | 26.0 | 3 | 23.3 |
| 55 | Nasal height | 3 | 50.0 | 3 | 45.7 |
| 54:55 | Nasal index | 3 | 52.1 | 3 | 51.5 |
| SC | Simotic chord | 3 | 7.73 | 3 | 8.67 |
| SS | Simotic subtense | 3 | 3.50 | 3 | 4.17 |
| SS:SC | Simotic index | 3 | 45.06 | 3 | 49.39 |
| DC | Dacrial chord | 3 | 23.33 | 3 | 18.67 |
| DS | Dacrial subtense | 3 | 11.57 | 3 | 10.63 |
| DS:DC | Dacrial index | 3 | 49.56 | 3 | 57.52 |
| 75 | Angle between nasalia and Frankfurt plane | 1 | 61.0 | 3 | 61.0 |
| 75(1) | Nasal protrusion angle | 1 | 25.0 | 3 | 24.7 |
| 60 | Alveolar arch length | 3 | 51.7 | 3 | 52.0 |
| 61 | Alveolar arch breadth | 3 | 61.7 | 3 | 57.7 |
| 61:60 | Alveolar index | 3 | 119.4 | 3 | 111.3 |
| 62 | Platine length | 3 | 45.7 | 3 | 43.0 |
| 63 | Platine breadth | 3 | 35.7 | 3 | 35.3 |
| 63:62 | Platine index | 3 | 78.4 | 3 | 82.3 |

(at least its male part) let us distinguish its morphological peculiarities comparing with other groups.

Comparing the newly received craniological material with the skulls of the Saami from the Kola Peninsula studied previously [Gokhman, *et al.* 1976; Khar-tanovich 1980] we come to the following three conclusions. First of all, they lie

Table 4

Average measurements and indices of the Kola Peninsula Saami male skulls

| Martin and other codes | Tratis | Groups | | | | | | | | | |
|---------------------------------|-----------------------------------|--------------------|-------|-------------------|-------|----------|-------|---------|-------|---------|-------|
| | | Severnaya Salma | | Chalmna- Varra | | Pulozero | | Varzino | | Uokanga | |
| | | n | X | n | X | n | X | n | X | n | X |
| 1 | Cranial length | 3 | 177.3 | 24 | 177.6 | 11 | 180.2 | 17 | 177.8 | 19 | 180.5 |
| 8 | Cranial breadth | 3 | 144.3 | 26 | 145.5 | 11 | 149.4 | 17 | 143.1 | 19 | 142.7 |
| 8:1 | Cranial index | 3 | 81.4 | 24 | 81.6 | 11 | 83.0 | 17 | 80.5 | 18 | 79.1 |
| 17 | Cranial height (basion-bregma) | 3 | 127.0 | 25 | 130.6 | 11 | 130.6 | 17 | 129.6 | 17 | 134.5 |
| 17:1 | Height-length index (basion) | 3 | 71.6 | 24 | 73.5 | 11 | 72.6 | 17 | 73.4 | 16 | 73.2 |
| 17:8 | Height-breadth index (basion) | 3 | 83.8 | 25 | 89.9 | 11 | 87.5 | 17 | 90.6 | 17 | 91.3 |
| 9 | Minimal frontal breadth | 3 | 96.3 | 26 | 97.5 | 11 | 98.6 | 17 | 96.5 | 20 | 97.0 |
| 32 | Frontal profile angle (nasion) | 3 | 84.3 | 22 | 81.2 | 11 | 82.8 | 17 | 81.8 | 16 | 81.9 |
| 45 | Bizygomatic breadth | 3 | 134.3 | 21 | 135.9 | 10 | 137.7 | 17 | 134.2 | 17 | 133.1 |
| 45:8 | Transversal facio-cerebral index | 3 | 94.0 | 21 | 93.6 | 10 | 92.6 | 17 | 93.8 | 16 | 93.6 |
| 48 | Nasion-alveolare height | 3 | 64.7 | 19 | 68.0 | 6 | 69.8 | 15 | 69.6 | 12 | 69.4 |
| 48:45 | Upper facial index | 3 | 48.1 | 19 | 50.0 | 5 | 50.9 | 15 | 52.0 | 12 | 52.0 |
| 48:17 | Vertical facio-cerebral index | 3 | 50.9 | 18 | 51.9 | 6 | 53.2 | 15 | 54.0 | 11 | 53.2 |
| 77 | Nasomalar angle | 3 | 144.3 | 23 | 142.0 | 11 | 141.3 | 17 | 140.7 | 17 | 140.3 |
| <zm' | Zygomaxillary angle | 3 | 132.3 | 18 | 132.3 | 10 | 129.7 | 16 | 129.8 | 13 | 131.7 |
| 72 | Total facial angle | 3 | 85.7 | 16 | 87.7 | 10 | 85.2 | 15 | 85.5 | 12 | 86.2 |
| 51 | Orbital breadth (maxillofrontal)) | 3 | 43.3 | 24 | 42.5 | 11 | 42.3 | 17 | 41.8 | 16 | 42.8 |
| 52 | Orbital height | 3 | 31.7 | 23 | 32.6 | 11 | 33.6 | 17 | 32.8 | 16 | 33.2 |
| 52:51 | Orbital index (maxillofrontal) | 3 | 73.0 | 23 | 76.5 | 11 | 79.6 | 17 | 78.5 | 16 | 77.8 |
| 54 | Nasal breadth | 3 | 26.0 | 22 | 25.5 | 11 | 25.3 | 17 | 24.5 | 14 | 24.5 |
| 55 | Nasal height | 3 | 50.0 | 22 | 51.4 | 11 | 51.9 | 17 | 51.8 | 14 | 50.7 |
| 54:55 | Nasal index | 3 | 52.1 | 22 | 49.7 | 11 | 48.7 | 17 | 47.5 | 14 | 48.7 |
| SC | Simotic chord | 3 | 7.73 | 23 | 7.97 | 11 | 8.28 | 17 | 9.09 | 16 | 8.11 |
| SS | Simotic subtense | 3 | 3.50 | 23 | 4.15 | 11 | 4.19 | 17 | 4.61 | 15 | 4.63 |
| SS:SC | Simotic index | 3 | 45.06 | 23 | 52.65 | 11 | 50.23 | 17 | 52.44 | 15 | 59.78 |
| DS | Dacrial chord | 3 | 23.33 | 20 | 22.33 | 11 | 21.24 | 17 | 21.29 | 11 | 20.97 |
| DS | Dacrial subtense | 3 | 11.57 | 20 | 12.03 | 11 | 11.70 | 17 | 12.02 | 10 | 11.58 |
| DS:DC | Dacrial index | 3 | 49.56 | 20 | 54.18 | 11 | 55.23 | 17 | 56.76 | 10 | 55.41 |
| 75(1) | Nasal protrusion angle | 1 | 25.0 | 16 | 23.5 | 6 | 27.3 | 14 | 29.0 | 9 | 29.6 |

within the borders of individual variations of features of other territorial groups' skulls. Next, the skulls from Severnaya Salma are very similar with the series from Chalmny-Varre. And, finally, the specific features of the "Lapps" craniological complex are the most distinct on the skulls from Severnaya Salma (Table 4).

Indeed, the series from Severnaya Salma is brachicranic, the most gracile, with the smallest cranium height not only by the absolute measurements but also with reference of this measurement to the lengthwise and transversal diameters. The facial skeleton is the lowest and the broadest in the general facial part as well as in the nasal and eye-sockets parts according to the absolute measurements and indices². The face, nose-bridge and nose bones flatness is the highest on the upper and medium levels.

The nose projects moderately to the profile line. As it is known, these features (brachicrania, gracileness, low head and face, horizontal face and nose bridge flatness) are the specific features of the “Lapps” craniological complex.

Naturally, there rises the question how to explain such distinctness of this complex in the Severnaya Salma group. As it was already said before this could be a corollary of the fact that this group is very small and not casual. But, from our point of view there could be another explanation. Other series of skulls of the Kola Saami correspond to the XIX — beginning of the XX centuries. At that time the Saami performed intensive contacts with other ethnic groups. Opposite to that the material from Severnaya Salma dates back for about 200 years and, thus, corresponds to the time of more isolated period of the Saami community's existence. Taking this fact into account we can assume that it is these skulls that reflect the most essential and peculiar features of the Lapps' initial craniological type free from admixtures of other anthropological variants.

If this assumption is true and the average values of variables of the Severnaya Salma sample are determined not by the extreme variants but characterize the general totality of at least the Lovozero group of the XVIII century Saami precisely enough, then the peculiarities of the complex of features distinguishing the Saami from the European population as well as from the Asian must have been expressed more distinctly in the “pure” early groups than in the populations closer to our times.

Naturally, the skulls from Severnaya Salma are the most flattered among all the Saami' skulls and are similar to Mongoloids according to these taxonomically important features. On the other hand, this group is the most low-faced one and Siberian Mongoloids are notable for their very big face height. Such a low face also can not be found among European groups of population.

Thus, the newly received skulls of the Saami from the Kola Peninsula, prove the anthropological originality of this folk in relation with europeoid populations as well as with the “classical” (Siberian) mongoloid populations. An extremely specific and discrepant complex of craniological features of the Severnaya Salma series, from our point of view, adjusts with the hypothesis suggesting that the factors of the Lapps' anthropological type formation were not exhausted by mixture of Mongoloids with Europeoids. Most likely the Saami also preserved in their anthropological appearance the features of the ancient formation that differed from the modern representatives of the European and Asian race types.

² The absolute measurement of the malar diameter is not the biggest one in the group but the face broadness is expressed in the comparative characteristic of this measurement in relation to the skull breadth.

These are the basic results of the examination of the skulls from Severnaya Salma. They bare a preliminary character and prove the necessity of the further more wide and detailed comparative analysis, involving the data on the Saami' groups from the whole area of this folk spreading. Along with that, the complicity of the "Lapps problem" brings out the question of the actuality of the complex study of the Fennoscandia and north-west Russia population craniology (the territory where the question of the "Lapps" substratum is constant) basing on new methodical and informational data.

Translated by the author

ABBREVIATIONS

| | |
|----------------|--|
| AR | – Archeologicke rozhledy, Praha. |
| AP | – Archeologia Polski, Wrocław. |
| AJPA | – American Journal of Physical Anthropology, New York. |
| CA | – Current Anthropology, Chicago. |
| KSIA | – Kratkiye Soobshcheniya Instituta Arkheologii Akademii Nauk USSR, Moskva. |
| KSIA (Ukraine) | – Kratkiye Soobshcheniya Instituta Arkheologii Akademii Nauk USSR, Kiev. |
| KSOGAM | – Kratkie Soobscheniya Odesskogo Gosudarstvennogo Arkheologicheskogo Muzeya, Odessa. |
| MASP | – Materialy po Arkheologii Severnogo Prichernomor'ya, Kiev. |
| MIA | – Materialy i Issledovaniya po Arkheologii, Moskva. |
| SA | – Sovetskaya Arkheologiya, Moskva. |
| SAA | – Soviet Anthropology and Archaeology, Moskva. |
| SE | – Sovetskaya Etnografiya, Moskva. |

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