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## CATALOG OF HUMAN CRANIA IN THE UNITED STATES NATIONAL MUSEUM COLLECTIONS: NON-ESKIMO PEOPLE OF THE NORTHWEST COAST, ALASKA, AND SIBERIA

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By ALEŠ HRDLIČKA\*

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### INTRODUCTION

THE present catalog of crania is the seventh and concluding part of a work describing the large and valuable collections of human skulls in the United States National Museum. Its object, as that of all the previous parts, is to furnish American and other students of man with reliable, detailed measurements, made by the same experienced observer, using tested methods and standard instruments, as the basis of future studies and the solution of anthropological problems.

The data given herein are supplemented by those obtained by me in various Russian institutions, principally the anthropological museums at Leningrad and Moscow and the City Museum at Irkutsk. They extend to the Indian and other non-Eskimo populations of the Northwest Coast of North America, Alaska (including Kodiak Island and the Aleutian Islands), and Siberia.

The extension of the catalog to the Siberian materials grew gradually in urgency, for as the work progressed evidence pointed more and more to northern Asia as the source of the original American Indian population. Since it was of prime importance that the data be collected and collated by the same observer and by the same methods as those for the North American skulls, I made a trip to the Soviet Union, including Siberia, in 1939. All possible facilities and aid were accorded

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\*Dr. Hrdlička died on September 5, 1943, a few days after galley proofs of this paper were received from the printer.—EDITOR.



me by the Russian scientists, and as a result I was able to examine a considerable number of Siberian crania from all periods of occupation. In view of the importance of some of this material, particularly that from the neolithic and more modern periods, the gist of the observations, with some details, was published in the American Journal of Physical Anthropology (vol. 29, pp. 435-481, 1942); but the detailed measurements of all except the prehistoric specimens were reserved for the present publication. Meanwhile there was published also the final catalog of the Eskimo crania (Proc. U. S. Nat. Mus., vol. 91, pp. 169-429, 1942).

It was once hoped that this series of catalogs might be extended also to cranial materials from Mexico, Central America, the Antilles, and South America, but except for Peru the collections from these regions are still scarce, much of these vast territories being entirely unrepresented. For the present, therefore, nothing systematic covering these areas is feasible.

It may be useful to show the field covered by the six previous catalogs. These were as follows:

1. The Eskimo, Alaska and Related Indians, Northeastern Asiatics: Proc. U. S. Nat. Mus., vol. 63, art. 12, 51 pp., 1924. (Long out of print and wholly replaced by the 1942 catalog on the Eskimo in general and by the present number.)

2. The Algonkin and Related Iroquois, Siouan, Caddoan, Salish and Sahaptin, Shoshonean, and Californian Indians: *Ibid.*, vol. 69, art. 5, 127 pp., 1927.

3. Australians, Tasmanians, South African Bushmen, Hottentots, and Negro: *Ibid.*, vol. 71, art. 24, 140 pp., 1928.

4. Pueblos, Southeastern Utah Basket-makers, Navaho: *Ibid.*, vol. 78, art. 2, 95 pp., 1931.

5. Indians of the Gulf States: *Ibid.*, vol. 87, pp. 315-464, 1940.

6. Eskimo in General: *Ibid.*, vol. 91, pp. 169-429, 1942.

Meanwhile, since 1926, important collections were gathered in Alaska and the neighboring parts of the Northwest Coast on the Indian and other non-Eskimo groups of the region. These included materials from two hitherto unknown large groups, the Pre-Koniag of Kodiak Island and the Pre-Aleuts of the Aleutian Archipelago. The detailed measurements of the crania of all these are given in the present catalog. This includes, therefore, data on the crania from the following localities:

1. The Northwest Coast.

2. Southeastern Alaska.

3. Southwestern Alaska.

4. The Yukon.

5. Shageluk Slough.

6. The Alaska Peninsula.

7. Kodiak Island (Koniag).

8. Kodiak Island (Pre-Koniag).

9. Aleutian Islands (Aleut).

10. Aleutian Islands (Pre-Aleut).

11. Siberia.



The methods of measurement were outlined in the 1942 catalog on the Eskimo in general, and comparisons as well as other details are given in the same catalog and also in two papers now in press.<sup>1</sup> The present data will require, therefore, but little discussion. This will be found at the conclusion of this paper.

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<sup>1</sup> "Anthropology of Kodiak Island" and "Anthropology of the Aleutian and Commander Islands," Wistar Institute, Philadelphia.



## NORTHWEST COAST INDIANS: MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maximum (glabella ad maximum)	Diam. lateral maximum.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
XVI-A-6	Nat. Mus. Canada.	Lytton	50		18.3	14.0		76.5							
XVI-A-83	do	Spencers Bridge	80		17.5	14.0	13.3	80.0	84.44		14.93				
99-1185	A.M.N.H.	Lytton	60		18.2	14.6		80.2							
99-1057	do	do	60		18.1	14.6	14.3	80.7	87.46		15.67				
XVI-A-13	Nat. Mus. Canada.	50 miles above Prince Rupert.	65		17.6	14.2	12.9	80.7	81.13		14.90				7.7
99-1567	A.M.N.H.	Port Hammond	55		17.7	14.4	13.0	81.4	81.0		15.03				
99-4308	do	Thompson River	65		17.5	14.3	13.6	81.7	85.53		15.13				
XVI-A-15	Nat. Mus. Canada.	Spencers Bridge	60		17.6	14.4	13.2	81.8	82.50		15.07				7.8
XVI-A-20	do	do	80		18.0	14.8	12.8	82.2	78.05		15.20				
XVI-A-10	do	Lytton	55		17.4	14.5	13.4	83.3	84.01		15.10				7.3
XVI-A-68	do	Kamloops	35		17.2	14.6	14.0	84.9	83.05		15.27				
Specimens			(11)		(11)	(11)	(9)	(11)	(9)		(9)				(3)
Totals			615		195.1	158.4	120.5				136.3				22.8
Averages			55.9		17.74	14.40	13.39	81.19	83.57		15.14				
Minima			30		17.2	14.0	12.8	76.5	78.1		14.90				7.60
Maxima			80		18.3	14.8	14.3	84.9	88.1		15.67				



Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—	Upper Alveolar Arch—	Lower Jaw—Height at Symphysis
XVI-A-6	14.4					10.0			3.5		3.8											
XVI-A-83								47.5	3.55		4.15				5.1	2.6	50.98					
99-1185	14.3		53.85	10.7	9.0	10.6	68.0		3.85		4.1	4.05			5.1	2.55	50.0					
99-1057	14.9				9.1	10.0																
XVI-A-13						10.3			3.5	3.5	4.0	3.9			4.8	2.3	47.92					4.0
99-1567						10.4			3.35	3.3	3.7	3.65			5.65	2.2	58.94	5.5	6.4			3.5
99-4308	14.3				9.2	10.4		57.0														
XVI-A-15	14.3		54.55	10.4	9.4	10.4	68.0		3.5		4.1											
XVI-A-20						10.4																
XVI-A-10	13.5		54.07	9.8	8.8	10.3	73.0	55.5	3.5						5.3	2.6	49.06	5.7	6.3	80.48		
XVI-A-68						10.2																
Specimens	(6)		(3)	(3)	(5)	(9)	(3)	(3)	(6)	(3)	(6)	(3)	(6)	(3)	(5)	(5)	(5)	(2)	(2)	(2)	(2)	(2)
Totals	85.7			30.9	45.5	92.6	209.0	160.0	21.25	10.7	23.85	11.6			25.95	12.25		11.2	12.7			7.5
Averages	14.28		54.16	10.30	9.10	10.29	69.7	53.3	3.54	3.57	3.97	3.87	89.10	92.24	5.19	2.45	47.21	5.60	6.55	88.2		3.75
Minima	13.5				8.8	10.0			3.35		3.7		85.57		4.8	2.2	58.94					
Maxima	14.9				9.4	10.6			3.85		4.15		93.90		5.65	2.6	50.98					



## NORTHWEST COAST INDIANS: FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
XVI-A-11	Nat. Mus. Can.	Lytton	40	---	17.2	13.4	13.2	77.9	86.3	---	14.60	---	---	---	6.7
99-1062	A.M.N.H.	do	25	---	17.3	13.5	13.1	78.0	85.1	---	14.63	---	---	---	---
99-1307	do	Thompson River	22	---	17.4	13.6	13.5	78.2	87.1	---	14.83	---	---	11.2	6.9
XVI-A-5	Nat. Mus. Can.	Lytton	65	---	17.3	13.8	12.6	79.8	81.0	---	14.57	---	---	---	---
99-1223	A.M.N.H.	do	55	---	16.6	13.4	12.9	80.7	86.0	---	14.30	---	---	---	---
XVI-A-8	Nat. Mus. Can.	do	40	---	17.2	13.9	13.0	80.8	83.6	---	14.70	---	---	---	7.4
XVI-B-11	do	Haida	24	---	17.7	14.3	13.8	80.8	86.3	---	15.27	---	---	12.0	7.5
XVI-A-86	do	Spencers Bridge	35	---	16.8	13.7	12.1	81.5	79.3	---	14.20	---	---	---	6.5
99-98	A.M.N.H.	do	35	---	16.2	13.2	12.4	81.5	84.4	---	13.93	---	---	9.9	6.2
XVI-A-16	N.M.C.	do	55	---	17.9	14.6	12.8	81.6	73.8	---	15.10	---	---	11.7	7.0
99-1313	A.M.N.H.	Thompson River	30	---	16.6	13.6	12.4	81.9	82.1	---	14.20	---	---	---	7.1
XVI-A-7	Nat. Mus. Can.	Lytton	60	---	16.7	13.7	13.2	82.0	86.8	---	14.53	---	---	---	7.1
XVI-A-3	do	Kamloops	60	---	17.0	14.1	13.2	82.9	84.9	---	14.77	---	---	---	6.7
XVI-A-27	do	Spencers Bridge	30	---	16.8	14.0	12.3	83.3	79.9	---	14.37	---	---	---	6.7
XVI-A-69	do	Kamloops	60	---	16.9	14.4	13.6	85.2	86.9	---	14.97	---	---	---	---
XVI-A-14	do	Lillooet	65	---	16.6	14.4	12.2	86.7	78.7	---	14.40	---	---	---	---
Specimens			(16)	---	(16)	(16)	(16)	(16)	(16)	---	(16)	---	---	(4)	(11)
Totals			701	---	272.2	221.6	206.3	---	---	---	233.37	---	---	44.8	75.8
Averages			43.8	---	17.01	13.85	12.89	81.4	83.6	---	14.59	---	---	11.20	6.89
Minima			22	---	16.2	13.2	12.1	77.9	73.7	---	13.93	---	---	9.9	6.2
Maxima			65	---	17.9	14.6	13.8	86.7	87.1	---	15.27	---	---	12.0	7.5



Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. mm.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index	Lower Jaw—Height at Symphysis
XVI-A-11	12.8		52.3	10.1	9.2	10.0	71.0	61.5	3.55	3.55		3.9		91.0	4.6	2.25	48.9	5.3	6.0	88.3	
99-1062	13.0	86.2		10.2	8.8	10.2	71.0	55.0	3.55	3.75	3.75	3.75	94.7	100.0	4.7	2.2	46.8	5.5	6.6	83.3	3.4
XVI-A-5	13.2		53.1	10.1	8.7	9.9			3.45		3.75		92.0		4.9	2.1	42.9				
99-1223				9.4		9.4															
XVI-A-8	12.8		57.8	10.0	8.6	9.7	66.0	45.5	3.5	3.5	3.6	3.5	97.2	100.0	5.4	2.55	47.2	5.5	6.1	90.2	
XVI-B-11	13.5	88.9	55.6	10.4	8.8	9.8	69.0	45.5	3.95	3.95	4.0	4.0	98.7	98.7	5.05	2.45	48.5	5.7	6.8	83.8	
XVI-A-86	12.9		50.4	9.5	8.6	9.5	70.0	58.0	3.55	3.5	3.7	3.6	96.0	97.2	4.6	2.4	52.2	5.0	6.0	83.3	
99-98	12.4	79.8	50.0	9.3	8.2	9.5	72.0	46.0	3.25	3.2	3.6	3.55	90.3	90.1	4.7	2.35	50.0	4.9	5.8	84.5	2.7
XVI-A-16	13.5		51.9	10.4	9.2	10.2	68.5	49.0	3.3	3.3	3.95	3.85	83.5	85.7	5.1	2.65	42.0	5.9	6.4	92.3	
99-4313	13.3	88.0	53.4	10.2	8.0	9.6	65.0	49.0	3.6	3.3	3.8	3.7	86.8	89.2	5.0	2.45	49.0	5.3	6.2	85.6	
XVI-A-7	12.5		56.8	10.2	9.0	9.7	65.0	50.0	3.6	3.55	3.85	3.85	92.5	92.2	5.1	2.3	45.1	5.6	6.4	87.5	3.7
XVI-A-3	13.7		48.9	9.8	8.8	10.0	71.5	53.0	3.45	3.5	4.1	4.0	84.2	92.0	4.95	2.35	47.5	5.2	5.9	88.1	
XVI-A-27	13.5		49.6	9.8	8.6	9.4	66.0	47.5	3.45	3.45	3.8	3.75	90.8	92.0	4.85	2.45	50.5	5.2	6.2	83.9	
XVI-A-69	13.5				8.6	10.0			3.8	3.7	4.05	3.95	93.8	93.7	5.3	2.3	43.4	5.2	6.0	86.7	
XVI-A-14					7.8	9.2			3.5	3.6	3.8	3.6	92.1	100.0	5.2	2.75	52.9	5.4	6.2	87.1	
Specimens	(13)	(4)	(11)	(11)	(14)	(16)	(11)	(11)	(13)	(13)	(13)	(13)	(13)	(13)	(14)	(14)	(14)	(13)	(13)	(13)	(3)
Totals	170.6			156.0	121.8	156.0	755.0	560.0	45.65	45.85	49.75	49.0			69.45	33.55		69.7	80.6		9.80
Averages	13.12	85.8	52.7	9.98	8.70	9.75	68.6	50.9	3.51	3.53	3.83	3.77	91.8	93.6	4.96	2.40	48.3	5.35	6.20	86.5	
Minima	12.4	79.8	48.9	9.3	7.8	9.2	65.0	45.0	3.25	3.2	3.6	3.5	83.5	86.7	4.6	2.1	42.9	4.9	5.8	83.3	
Maxima	13.7	88.9	57.8	10.4	9.2	10.2	72.0	61.5	3.95	3.95	4.1	4.0	98.7	100.0	5.4	2.75	52.9	5.7	6.8	92.2	

1 Allowance made for wear of teeth, where needed.



## SOUTHEAST ALASKA INDIANS: MALES

(Dall and Pennoek Islands)

## TLINGIT

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max.	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
379170	( <i>Julian Steward</i> ) U.S.N.M.	Bobs Bay (Dall Island).	40	---	18.9	15.0	14.1	79.37	83.19	---	16.00	---	---	13.4	8.0
379172	do.	do.	24	---	19.0	15.2	13.8	80.0	80.70	---	16.00	---	---	12.5	7.4
379166	do.	do.	30	---	18.7	15.2	13.8	81.28	81.42	---	15.90	---	---	12.0	7.5
379168	do.	Pennoek Island	55	---	18.8	15.5	13.8	82.45	80.47	---	16.03	---	---	12.7	7.7
379167	do.	do.	30	---	17.9	14.8	14.2	82.68	86.85	---	15.63	---	---	12.3	7.9
379165	do.	do.	55	---	17.8	15.1	13.5	84.83	82.07	---	15.47	---	---	12.3	7.4
Specimens	---	---	(6)	---	(6)	(6)	(6)	(6)	(6)	---	(6)	---	---	(5)	(6)
Totals	---	---	234	---	11.1	90.80	83.2	---	---	---	95.03	---	---	62.90	45.90
Averages	---	---	39.0	---	18.52	15.13	13.87	81.73	82.42	---	15.84	---	---	12.58	7.65
Minima	---	---	24	---	17.8	14.8	13.5	79.4	80.5	---	15.47	---	---	12.0	7.4
Maxima	---	---	55	---	19.0	15.5	14.2	84.8	86.8	---	16.03	---	---	13.4	8.0

Catalog No.	Diam. Bizygomatic maxm. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth, max- im.	Nasal Index	Upper Alveolar Arch— Length, maxm.	Upper Alveolar Arch— Breadth, maxm.	Upper Alveolar Arch— Index	Lower Jaw—Height at Symphysis
379170	15.1	88.74	52.98	11.1	9.9	11.2	68.5	56.5	3.5	3.6	4.4	4.3	79.55	83.72	5.1	2.5	42.02	6.9	7.2	83.82	---
379172	14.9	83.89	49.66	10.7	9.6	10.4	67.0	56.0	3.5	3.55	4.1	4.0	85.37	88.75	5.05	2.8	55.45	5.7	7.2	79.17	---
379166	15.4	77.92	48.70	10.5	9.4	10.8	71.5	56.5	3.6	3.6	4.0	3.9	90.0	92.31	5.15	2.5	48.54	5.6	6.7	82.58	---
379168	15.2	---	50.66	9.8	8.7	10.2	69.5	57.0	3.8	3.8	4.3	4.2	88.37	90.48	5.15	2.65	51.46	5.6	6.8	82.35	---
379167	14.7	86.39	53.74	10.0	9.0	10.2	68.0	59.0	3.8	3.75	4.1	4.0	92.68	93.75	5.4	2.4	44.44	5.7	6.4	89.06	---
379165	15.1	81.46	49.01	10.5	9.5	10.2	67.0	54.5	3.25	3.2	4.0	3.9	81.25	82.05	5.45	2.75	50.46	5.7	6.8	83.82	---
Specimens	(9)	(5)	(6)	(6)	(9)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
Totals	90.4	---	---	62.6	56.1	63.0	411.5	339.5	21.45	21.50	24.90	24.30	86.14	88.48	31.3	15.60	---	34.3	41.10	---	---
Averages	15.07	83.64	50.77	10.43	9.35	10.50	68.58	56.58	3.58	3.58	4.15	4.05	79.6	82.1	5.22	2.60	49.84	5.72	6.85	82.45	---
Minima	14.7	77.9	48.7	9.8	8.7	10.2	67.0	54.5	3.25	3.2	4.0	3.9	81.25	83.8	5.05	2.4	44.4	5.6	6.4	79.2	---
Maxima	15.4	88.7	53.7	11.1	9.9	11.2	71.5	59.0	3.8	3.8	4.4	4.3	92.7	93.8	5.45	2.8	55.4	6.0	7.2	89.1	---

<sup>1</sup> Near.<sup>2</sup> Allowance made for wear of teeth.



## SOUTHEAST ALASKA INDIANS: FEMALES

(Dall Island)

## TLINGIT

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
379173	U.S.N.M.	Bobs Bay	20		17.8	14.6	13.4	82.02	82.72		15.27				
379171	do.	do.	50		17.2	14.3	13.5	83.14	85.71		15.00				7.4

  

Catalog No.	Diam. Blygomatie max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits-Height, right	Orbits-Height, left	Orbits-Breadth, right	Orbits-Breadth, left	Orbital Index, right	Orbital Index, left	Nose-Height	Nose-Breadth max.	Nasal Index	Upper Alveolar Arch- Length, max.	Upper Alveolar Arch- Breadth, max.	Upper Alveolar Arch- Index	Lower jaw-Height at Symphysis
379173	14.0	88.57	52.86	10.6	9.2	10.0	64.5	51.5	3.7	3.7	4.0	3.9	92.60	94.87	4.8	2.8	68.83	5.7	6.7	85.07	
379171																					

1 Near.

2 Allowance made for wear of teeth.

## SOUTHEAST ALASKA INDIANS: MALES

## HAIDA

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
304053	U.S.N.M.	Queen Charlotte Islands.	Adult.	-----	17.7	14.4	13.6	81.4	84.7	-----	15.23	1,400	-----	12.4	7.7
304052	do	do	do	-----	17.8	15.4	13.2	86.5	79.5	-----	15.47	1,600	-----	12.0	7.0

## TLINGIT

300898	U.S.N.M.	Admiralty Island	Adult.	-----	18.2	14.1	14.6	77.5	90.4	-----	15.63	1,630	-----	12.9	8.0
242885	do	Southeast Alaska	do	-----	18.8	14.6	12.6	77.7	75.4	-----	15.33	1,590	-----	-----	8.0
228795	do	do	55	-----	19.0	14.9	13.9	78.4	82.0	-----	15.33	1,505	-----	-----	7.1
304095	do	Admiralty Island	Adult.	-----	18.8	14.8	13.8	78.7	82.1	-----	15.80	1,620	-----	12.4	7.8
300896	do	Prince of Wales Island.	do	-----	18.3	14.4	13.3	78.7	81.4	-----	15.33	1,450	-----	12.1	7.7
242948	do	Near Sitka.	do	-----	19.3	15.2	14.6	78.8	84.6	-----	16.37	1,580	-----	12.8	8.0
243986	do	Southeast Alaska	do	-----	18.2	14.4	12.2	79.1	74.8	-----	14.93	1,410	-----	10.4	6.6
273205	do	Near Wrangell	28	-----	18.8	14.9	14.6	79.3	86.6	-----	16.10	1,590	-----	13.3	7.9
242932	do	Southeast Alaska	Adult.	-----	17.8	14.2	13.4	79.8	83.8	-----	15.13	1,530	-----	11.6	7.4
242904	do	Near Sitka.	Adult.	-----	18.8	15.0	13.6	79.8	80.5	-----	15.80	1,725	-----	12.9	7.9
225255	do	Wrangell	do	-----	18.8	15.1	12.9	80.3	76.6	-----	15.60	1,610	-----	-----	-----
300894	do	Hecta Island, near Prince of Wales Island.	do	-----	18.7	15.4	14.2	82.4	83.3	-----	16.10	1,580	-----	12.8	7.8
Specimens	-----	-----	-----	-----	(12)	(12)	(12)	(12)	(12)	-----	(12)	(12)	-----	(9)	(11)
Totals	-----	-----	-----	-----	223.5	177.0	163.7	79.2	81.7	-----	188.1	18,820	-----	111.2	84.2
Averages	-----	-----	-----	-----	18.63	14.75	13.64	79.2	81.7	-----	15.67	1,568	-----	12.36	7.65
Minima	-----	-----	-----	-----	17.8	14.1	12.2	77.5	74.8	-----	14.93	1,410	-----	10.4	6.6
Maxima	-----	-----	-----	-----	19.3	15.4	14.6	82.4	90.4	-----	16.37	1,725	-----	12.9	8.0

<sup>1</sup> Allowance made for wear of teeth, where needed.



SOUTHEAST ALASKA INDIANS: MALES—Continued  
HAIDA

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxm.	Upper Alveolar Arch— Breadth maxm.	Upper Alveolar Arch— Index	Lower Jaw—Height at Symphysis
304053	13.4	92.5	57.5	10.2	9.2	10.1	67.0	57.0	3.7	3.8	3.85	3.85	96.1	93.7	5.6	2.6	46.4	5.3	6.8	77.9	3.4
304052	14.5	82.8	48.3	10.0	9.2	10.4	73.0	59.0	3.65	3.65	4.25	4.25	85.9	85.9	5.3	2.9	54.7	5.4	9.7	80.6	3.7

TLINGIT

Specimens	(12)	(9)	(11)	(12)	(12)	(11)	(11)	(11)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(11)	(10)	(4)
Totals	173.3	85.8	53.0	123.6	109.9	122.6	746.0	605.0	43.0	43.9	49.05	48.25	87.7	91.0	64.4	31.3	48.6	61.8	67.3	83.5	14.4
Averages	14.44	72.2	45.8	10.30	9.16	10.22	67.8	55.0	3.58	3.66	4.09	4.02	82.9	82.9	5.37	2.61	41.1	5.62	6.73	76.0	3.60
Minima	13.5	72.2	45.8	9.4	8.4	9.4	64.0	47.0	3.4	3.4	3.8	3.9	82.9	82.9	4.85	2.25	41.1	5.3	6.2	87.1	3.5
Maxima	15.3	93.5	58.0	10.8	10.0	11.3	72.0	64.0	3.8	3.9	4.4	4.2	92.7	93.7	5.7	3.0	56.3	6.1	7.1	87.1	3.7
300898	13.8	93.5	58.0	10.3	9.2	10.2	66.5	57.0	3.6	3.75	4.0	3.9	90.0	96.1	5.6	2.3	41.1	5.7	6.6	86.4	3.6
242885	14.7	85.8	54.4	10.8	9.2	10.2	64.0	50.0	3.4	3.55	4.1	3.9	82.9	90.1	5.2	2.45	47.1	6.1	7.0	87.1	---
228795	14.6	81.0	46.0	10.5	9.3	10.4	69.0	54.0	3.4	3.6	4.1	4.1	82.9	82.9	4.85	2.7	55.7	5.6	7.1	78.9	---
304095	15.3	89.6	51.0	10.0	9.1	10.0	67.5	61.5	3.6	3.6	4.2	4.1	85.7	87.8	5.4	2.5	46.3	5.5	6.4	85.9	---
300896	13.5	89.6	57.0	10.1	8.8	9.8	65.0	50.0	3.8	3.9	4.1	3.95	92.7	98.7	5.4	2.7	50.0	5.6	(5.8)	(96.5)	---
242948	14.9	85.9	53.7	10.8	10.0	11.3	72.0	64.0	3.5	3.7	3.8	3.9	92.7	94.9	5.7	2.5	43.9	5.9	6.8	86.8	---
243986	14.4	72.2	45.8	10.1	9.1	10.0	70.0	47.0	3.6	3.55	4.1	4.1	87.8	86.6	5.15	2.9	56.3	5.4	6.2	87.1	---
273205	14.4	92.4	54.9	10.3	9.4	10.5	69.0	62.5	3.75	3.8	4.2	4.1	89.3	92.7	5.4	2.25	41.7	5.7	6.8	82.8	3.5
242932	13.6	85.3	54.4	9.4	8.4	9.4	67.0	56.5	3.55	3.7	3.9	3.9	91.0	94.9	5.3	2.4	45.3	5.3	6.2	85.5	---
242904	14.9	86.6	53.0	10.7	9.3	10.4	66.0	50.5	3.65	3.8	4.4	4.2	83.0	90.5	5.5	2.9	52.7	5.6	7.1	78.9	3.6
225255	14.4	86.5	52.7	10.2	8.9	9.7	70.0	52.0	3.6	3.55	4.0	4.0	90.0	88.8	5.2	2.7	51.9	5.4	7.1	76.0	3.7
300894	14.8	86.5	52.7	10.4	9.2	10.7	70.0	52.0	3.55	3.6	4.15	4.1	85.5	87.8	5.7	3.0	52.6	5.4	7.1	76.0	---



## SOUTHEAST ALASKA INDIANS: FEMALES

## HAIDA

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad max.)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Teeth, wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
304051	U.S.N.M.	Queen Charlotte Islands.	Adult	---	17.4	14.2	13.0	81.6	82.3	---	14.87	1,240	---	---	7.0
304054	do	do	do	---	16.8	13.8	12.8	82.1	83.7	---	14.47	1,130	---	---	6.8

## TLINGIT

369495	U.S.N.M.	Near Wrangell	45	---	18.0	14.2	13.1	78.9	81.4	---	15.10	---	---	11.9	7.2
242926	do	Southeast Alaska	Adult	---	18.4	14.6	13.2	79.4	80.0	---	15.40	---	---	---	7.3
300895	do	Admiralty Islands	do	---	18.0	14.3	12.9	79.4	79.9	---	15.07	1,310	---	11.4	6.9
242899	do	Southeast Alaska	do	---	17.0	13.9	13.2	81.8	83.0	---	14.70	1,370	---	---	6.4
3486	State Mus. Seattle.	Island northwest of Sitka.	do	---	17.4	14.4	13.0	82.8	81.8	---	14.93	---	---	---	7.1
300897	U.S.N.M.	Prince of Wales Island	do	---	17.4	14.4	12.1	82.8	76.1	---	14.63	1,450	---	11.7	7.3
329755	do	do	35	---	16.8	14.2	12.7	84.5	81.7	---	14.57	---	---	10.7	6.5
369496	do	Wrangell	60	---	17.3	14.7	12.2	85.0	76.3	---	14.73	---	---	12.2	7.1
329753	do	Prince of Wales Island	25	---	17.0	14.5	13.1	85.3	83.2	---	14.87	---	---	11.1	6.7
Specimens	---	---	---	---	(9)	(9)	(9)	(9)	(9)	---	(9)	(3)	---	(6)	(9)
Totals	---	---	---	---	157.3	129.2	115.5	---	---	---	131.0	4,130	---	69.0	62.5
Averages	---	---	---	---	17.48	14.36	12.83	82.1	80.6	---	14.89	1,377	---	11.50	6.94
Minima	---	---	---	---	16.8	13.9	12.1	78.9	76.1	---	14.57	---	---	10.7	6.4
Maxima	---	---	---	---	18.4	14.7	13.2	85.3	83.2	---	15.40	---	---	12.2	7.3

<sup>1</sup> Allowance made for wear of teeth, where needed.



## SOUTHEAST ALASKA INDIANS: FEMALES—Continued

## HAIDA

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. mm.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index	Lower Jaw—Height at Symphysis
304051	13.3	---	52.6	9.1	8.2	9.6	72.0	60.0	3.3	3.4	4.0	3.6	82.5	89.5	4.7	2.3	48.9	4.8	6.2	77.4	---
304054	13.4	---	50.8	9.5	8.4	9.4	68.5	51.5	3.4	3.45	3.6	3.6	94.4	95.8	4.9	2.2	44.9	5.1	5.9	86.4	---

## TLINGIT

369495	13.3	89.5	54.1	10.5	9.3	10.2	67.0	52.5	3.6	3.6	3.9	4.0	92.3	90.0	5.0	2.4	48.0	5.8	6.7	86.6	3.35
242926	13.1	---	56.7	9.2	8.3	9.7	71.0	56.5	3.65	3.65	3.75	3.8	97.3	96.1	5.5	2.5	45.4	4.9	6.1	80.3	---
300895	13.7	83.2	50.4	10.8	9.6	10.2	66.0	51.5	3.45	3.4	4.2	4.1	82.1	84.1	4.85	2.3	47.4	5.8	6.1	95.1	3.2
242899	---	---	---	9.8	8.8	10.0	73.0	50.5	3.3	3.4	3.9	3.7	84.6	91.9	4.8	(2.9)	(60.4)	5.4	6.8	79.4	---
3486	13.5	---	52.6	11.1	9.8	10.2	64.0	51.0	3.2	3.25	3.85	3.55	83.1	84.4	4.8	2.55	53.1	5.6	6.6	84.8	---
300897	13.2	---	55.3	9.4	8.2	9.2	65.5	50.0	3.85	3.8	4.15	4.05	92.8	93.8	5.3	2.5	47.2	5.3	6.0	88.3	---
329755	13.0	82.3	50.0	9.1	8.4	9.2	70.0	50.5	3.5	3.35	3.7	3.7	94.6	90.5	4.9	2.5	51.0	4.8	5.9	81.4	2.9
369496	13.9	87.8	51.1	10.0	8.7	9.6	66.0	52.0	3.6	3.7	4.0	4.1	90.0	90.2	4.7	2.7	57.4	5.3	6.5	81.5	3.4
329753	12.8	86.7	52.3	8.8	7.9	9.3	72.0	57.0	3.95	4.0	3.9	3.75	101.3	106.7	4.85	2.2	45.4	4.7	5.7	82.5	2.9
Specimens	(8)	(6)	(8)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(8)	(8)	(9)	(9)	(9)	(5)
Totals	106.5	---	---	88.7	79.0	87.6	614.5	480.5	32.1	32.2	35.35	35.05	---	---	44.7	19.65	---	47.6	56.4	---	13.75
Averages	13.25	---	52.7	9.86	8.78	9.73	68.3	53.4	3.57	3.58	3.93	3.89	90.8	91.9	4.97	2.46	49.2	5.29	6.27	84.4	3.15
Minima	12.8	82.3	50.0	8.8	7.9	9.2	64.0	50.0	3.2	3.25	3.7	3.7	82.1	84.1	4.7	2.2	45.4	4.7	5.7	79.4	2.9
Maxima	13.7	89.5	55.7	11.1	9.8	10.2	73.0	59.5	3.95	4.0	4.15	4.1	101.3	106.7	5.5	2.7	57.4	5.8	6.8	95.1	3.4



## SOUTH AND SOUTHWEST ALASKA INDIANS: MALES

## COPPER RIVER

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maximum (glabella ad maximum)	Diam. lateral maximum	Basion-Bregma Height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlička's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
379354	Dr. Chase	Near W. channel of Copper River.	55	-----	18.8	14.2	13.1	75.5	79.4	-----	15.37	-----	-----	12.7	7.8

## CORDOVA

363604	(A.H.) U.S.N.M.	Indian burials near Cordova.	40	-----	18.2	14.4	13.8	79.1	84.7	-----	15.47	-----	-----	12.7	7.5
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## FRINCE WILLIAM SOUND ISLANDS

225040	U.S.N.M.	Cordova region	55	-----	17.6	14.8	13.7	84.1	84.6	-----	15.37	1,525	-----	-----	-----
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## KENAI PENINSULA

C-1	Nat. Mus. Can.	Kenai Peninsula	55	-----	18.0	14.8	14.0	82.2	85.4	-----	15.60	-----	-----	-----	7.9
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## ILIAMNA LAKE

363593	(A.H.) U.S.N.M.	Knudsen Bay	60	-----	17.6	15.2	13.6	86.4	82.9	-----	15.47	-----	-----	12.2	7.2
Specimens	-----	-----	(5)	-----	(5)	(5)	(5)	(5)	(5)	-----	(5)	-----	-----	(3)	(4)
Totals	-----	-----	265	-----	90.2	73.4	68.2	-----	-----	-----	77.27	-----	-----	37.6	30.4
Averages	-----	-----	53.0	-----	18.04	14.68	13.64	81.4	83.4	-----	15.45	-----	-----	12.53	7.6



SOUTH AND SOUTHWEST ALASKA INDIANS: MALES—Continued  
COPPER RIVER

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxm.	Upper Alveolar Arch— Breadth maxm.	Upper Alveolar Arch— Index	Lower Jaw—Height at Symphysis
379354.....	13.5	94.1	87.8	10.8	9.2	10.0	62.0	48.0	3.4	(3.1)	3.85	3.9	88.3	(80.8)	5.45	2.8	51.4	5.8	6.2	93.5	3.7
363604.....	14.5	87.6	51.7	9.7	8.8	10.0	70.0	60.5	3.75	3.8	3.9	3.9	96.2	97.4	5.2	2.25	43.3	5.3	6.5	81.5	3.8
225040.....	15.0	-----	-----	-----	8.8	10.0	-----	-----	3.4	3.4	4.0	3.85	85.0	88.3	5.2	2.6	50.0	-----	-----	-----	-----
PRINCE WILLIAM SOUND ISLANDS																					
KENAI PENINSULA																					
C-1.....	14.2	-----	55.6	10.6	9.3	10.3	66.0	54.0	4.0	4.1	4.0	4.05	100.0	101.2	5.35	2.55	47.7	5.7	6.7	85.1	-----
ILIAMNA LAKE																					
363593.....	14.3	85.3	60.4	9.6	8.4	9.8	69.5	49.5	3.8	3.9	4.45	4.4	85.4	88.6	5.2	2.8	53.8	5.2	6.2	83.9	3.5
Specimens.....	(5)	(3)	(4)	(4)	(5)	(5)	(4)	(4)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(4)	(4)	(4)	(3)
Totals.....	71.5	-----	-----	40.7	44.5	50.1	267.5	212.0	18.35	18.3	20.2	20.1	90.84	91.04	26.4	13.0	49.2	22.0	23.6	85.94	11.0
Averages.....	14.3	82.09	53.8	10.18	8.9	10.02	65.9	53.0	3.67	3.66	4.04	4.02	90.84	91.04	5.28	2.6	49.2	5.5	6.4	85.94	3.67



Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlička's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
339757	U.S.N.M.	Cordova region	60	---	17.8	14.9	12.2	83.71	74.62	---	14.97	---	---	---	7.4
339756	do	do	55	---	16.8	14.2	12.1	84.52	74.01	---	14.37	---	---	---	7.6

## ILIAMNA LAKE

363596	(A. H.) U.S.N.M.	Knudsen Bay	24	---	16.1	13.6	12.0	84.5	80.8	---	13.90	---	---	10.9	6.7
363594	do	do	35	---	16.9	14.4	12.2	86.2	78.5	---	14.43	---	---	12.1	7.4
Specimens	---	---	(4)	---	(4)	(4)	(4)	(4)	(4)	---	(4)	---	---	(2)	(4)
Totals	---	---	174	---	67.6	57.1	48.5	---	---	---	57.7	---	---	23.0	29.1
Averages	---	---	43.5	---	16.90	14.28	12.13	84.5	77.8	---	14.43	---	---	11.50	7.27

## PRINCE WILLIAM SOUND ISLANDS

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits-Height, right	Orbits-Height, left	Orbits-Breadth, right	Orbits-Breadth, left	Orbital Index, right	Orbital Index, left	Nose-Height	Nose-Breadth max.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index	Lower Jaw—Height at Symphysis
339757	13.0	---	56.9	10.2	9.1	9.8	65.0	58.0	3.6	3.65	3.8	3.9	94.7	93.6	4.8	2.85	59.4	5.0	6.5	76.9	---
339756	13.4	---	56.7	9.2	7.9	9.4	67.0	51.0	3.65	3.6	4.0	3.8	91.3	94.7	5.3	2.3	45.4	5.1	6.2	82.3	---



## SOUTH AND SOUTHWEST ALASKA INDIANS: FEMALES—Continued

## ILLIAMNA LAKE

363596	12.3	88.6	54.5	8.8	7.9	8.8	67.5	55.0	3.4	3.5	3.6	3.55	94.4	98.6	4.85	2.2	45.4	5.0	6.3	79.4	3.0
363594	12.9	93.8	57.4	9.1	8.3	9.1	66.0	61.5	3.35	3.25	3.55	3.55	94.4	91.6	5.05	2.45	48.5	5.2	6.7	77.6	3.7
Specimens	(4)	(2)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(2)
Totals	51.6		37.3	33.2	33.2	37.1	265.5	225.5	14.0	14.0	14.95	14.8			20.0	9.8		20.3	25.7		6.7
Averages	12.90	91.5	56.4	9.32	8.30	9.27	66.4	56.4	3.50	3.50	3.74	3.70	93.6	94.6	5.0	2.45	49.0	5.08	6.43	79.0	3.35

## YUKON INDIANS: MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maximum (glabella ad maximum)	Diam. lateral maximum	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
345344	(A. H.)	Above Greyling River.	35		18.6	14.8	13.8	79.57	82.63		15.73		Slight	12.5	7.7
345335	U.S.N.M.	Near Holy Cross River.	50		19.0	14.8	14.2	77.89	84.02		16.0		Medium	12.0	7.6
345314	do.	Ghost Creek.	55		17.7	14.0	13.2	79.10	83.28		14.97		Medium to pronounced.	13.3	7.5
345393	do.	do.	50		18.6	14.1	14.3	75.81	87.46		15.67		Medium	13.9	8.4
345744 (small)	do.	do.	50		17.4	13.3	13.4	76.44	87.30		14.70		do.	11.6	7.1
351348	do.	Kozherevski.	55		18.3	13.6	13.5	74.32	84.64		15.13		do.	12.8	7.2
345387	do.	do.	40		17.8	13.6	13.7	76.40	87.26		15.03		Moderate	12.8	7.9
345325	do.	do.	60		18.7	14.0	13.2	74.87	80.73		15.30		Marked	12.9	7.3
345731	do.	do.	60		18.4	14.0	13.6	76.09	83.95		15.33		do.	12.8	7.7
363910 (probably Indian).	do.	Above Russian Mission.	45		19.1	14.5	14.4	75.92	85.71		16.0		Moderate	13.9	8.2
Specimens			(10)		(10)	(10)	(10)	(10)	(10)		(10)			(10)	(10)
Totals			500		183.6	140.7	137.3				153.87			128.5	76.6
Averages			50		18.36	14.07	13.73	76.63	84.67		15.39			12.85	7.66
Minima			35		17.4	13.3	13.2	74.32	80.73		14.70			11.6	7.1
Maxima			60		19.1	14.8	14.4	79.57	87.46		16.0			13.9	8.4



Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index	Lower Jaw—Height at Symphysis
345344	14.4	86.81	53.49	10.5	9.3	10.0	64.0	55.0	3.3	3.4	3.85	3.8	85.71	89.47	5.15	2.3	44.66	5.8	6.5	89.22	3.9
345335	14.8	81.08	51.35	10.3	9.2	10.5	70.0	54.0	3.5	3.6	3.9	3.9	89.74	92.31	5.5	2.6	47.27	5.7	7.1	80.28	3.6
345314	13.8	96.38	54.35	9.5	8.4	9.8	69.0	55.0	3.55	3.7	4.15	4.05	85.54	91.96	5.2	2.5	48.08	5.1	6.3	80.95	4.1
345393	14.3	97.90	58.74	10.4	9.2	10.4	66.0	57.0	3.5	3.65	3.9	3.9	89.74	93.69	5.55	2.55	47.75	5.7	6.8	82.82	4.8
345744 (small)	13.1	88.55	54.20	9.9	8.9	10.0	70.0	57.5	3.3	3.3	4.1	4.0	80.49	82.60	5.0	2.55	51.0	5.1	6.0	82.26	3.6
351348	12.7	100.8	56.69	10.2	8.8	10.0	68.0	45.0	3.4	3.5	3.85	3.95	88.31	88.61	5.2	2.4	46.15	5.6	6.6	84.85	4.0
345387	14.0	91.43	56.43	10.5	9.4	10.6	68.5	56.5	3.5	3.6	3.9	3.8	89.74	94.74	5.55	2.5	49.05	5.8	6.7	86.57	3.9
345325	14.1	91.49	57.77	9.8	8.6	9.9	68.5	54.0	3.65	3.65	4.1	4.0	89.02	91.25	4.95	2.5	50.51	5.6	7.1	78.87	4.5
345731	14.2	90.14	54.23	10.1	8.8	10.3	69.0	51.5	3.65	3.65	4.1	4.1	89.02	89.02	5.35	2.6	48.60	5.6	6.5	83.15	3.7
363910 (probably Indian)	13.7	101.5	59.85	10.2	9.0	10.2	66.0	55.0	3.65	3.65	4.2	4.2	86.90	86.90	5.65	2.35	41.69	5.6	6.5	86.15	4.1
Specimens	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
Totals	139.1	89.86	55.07	101.4	89.6	101.7	679.0	540.5	35.0	35.7	40.05	39.7	87.39	89.92	53.1	24.95	40.99	55.6	66.1	84.11	40.4
Averages	13.91	89.86	55.07	10.14	8.96	10.17	67.9	54.1	3.50	3.57	4.01	3.97	87.39	89.92	5.31	2.50	40.99	5.56	6.61	84.11	4.04
Minima	12.7	81.08	51.35	9.5	8.4	9.8	64.0	45.0	3.3	3.3	3.85	3.8	80.49	82.60	4.95	2.3	41.69	5.1	6.0	78.87	3.6
Maxima	14.8	101.5	59.85	10.5	9.4	10.6	70.0	57.5	3.65	3.7	4.2	4.2	89.74	94.74	5.65	2.65	51.0	5.8	7.1	89.23	4.8

<sup>1</sup> Allowance made for wear of teeth, where needed.

<sup>2</sup> Near.



## YUKON INDIANS: FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxium (glabella and maxium)	Diam. lateral maxium.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
343389	(A. H.)	Near Greyling River	25	---	17.4	14.2	13.0	81.61	82.28	---	14.87	---	Very slight	11.3	6.8
345331	U.S.N.M.	Near Holy Cross	25	---	17.6	14.2	13.4	80.68	84.28	---	15.07	---	do	12.0	7.5
345716	do	do	50	---	17.6	13.5	12.0	76.70	77.17	---	14.37	---	Medium	11.9	7.0
345719	do	do	50	---	16.4	13.2	12.2	80.49	82.43	---	13.93	---	do	11.2	6.8
345312	do	Ghost Creek	35	---	16.9	12.8	12.2	75.74	82.15	---	13.97	---	Slight	11.9	7.3
345391	do	do	25	---	17.1	13.0	13.8	76.02	91.69	---	14.03	---	Very slight	11.2	7.0
345392	do	do	55	---	17.1	13.7	13.4	80.12	87.01	---	14.73	---	Medium to considerable	---	---
351349	do	Kozherevski	55	---	17.3	13.4	12.9	77.46	84.04	---	14.53	---	Considerable	12.8	7.5
Specimens			(8)		(8)	(8)	(8)	(8)	(8)		(8)			(7)	(7)
Totals			320		137.4	108.0	102.9	---	---		116.1			82.3	49.9
Averages			40		17.18	13.50	12.86	78.60	83.86		14.51			11.76	7.13
Minima			25		16.4	12.8	12.0	75.74	77.17		13.93			11.2	6.8
Maxima			55		17.6	14.2	13.8	81.61	91.69		15.07			12.8	7.5

## KOBUK RIVER

300216	U.S.N.M.	Shungnak Village	50	---	17.3	13.4	13.5	77.5	87.9	---	14.73	---	---	11.9	7.1
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Catalog No.	Diam. Bizygomatic max. (c)	Facial Ind. $\left(\frac{a \times 100}{c}\right)$ total	Facial Ind. $\left(\frac{b \times 100}{c}\right)$ upper	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Racial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Ind. <i>right</i>	Orbital Ind. <i>left</i>	Nose—Height	Nose—Breadth max. im.	Nasal Ind.	Upper Alveolar Arch—Length max. im.	Upper Alveolar Arch—Breadth max. im.	Upper Alveolar Arch—	Lower Jaw—Height at Symphysis
345389	12.8	88.28	59.19	9.3	8.0	9.3	69.0	48.5	3.35	3.35	3.8	3.7	88.16	90.54	4.75	2.35	49.47	5.1	6.1	82.61	3.45
345391	13.0	92.81	57.69	10.2	9.2	10.2	68.5	60.5	3.65	3.65	3.8	3.7	97.37	98.65	5.3	2.45	46.23	5.3	6.1	86.89	3.4
345716	13.4	88.81	52.24	9.9	8.8	9.8	68.5	51.0	3.45	3.45	3.8	3.7	89.17	93.24	5.0	2.4	48.0	5.2	6.1	85.25	3.7
345719	12.2	91.80	55.74	9.8	8.7	9.6	68.0	52.0	3.35	3.35	3.75	3.75	89.33	89.33	4.9	2.3	46.94	5.2	6.2	85.87	3.45
345312	12.8	92.97	57.03	9.2	8.0	9.0	64.5	53.0	3.65	3.65	3.8	3.7	96.05	98.65	4.9	2.3	46.94	5.2	5.9	88.14	3.75
345391	13.0	86.15	53.85	10.3	9.2	10.2	68.5	52.0	3.4	3.4	3.95	3.75	89.74	90.67	5.0	2.4	48.0	5.6	7.3	76.71	3.45
345392	13.1	98.46	57.69	9.9	8.4	9.4	64.0	49.5	3.7	3.4	4.3	3.85	93.67	93.61	4.95	2.35	47.47	5.7	6.5	87.69	3.2
351349	13.0	98.46	57.69	9.9	8.6	9.4	64.0	49.5	3.4	3.4	4.3	4.1	79.07	82.93	5.25	2.6	49.52	5.7	6.5	87.69	3.8
Specimens	(8)	(7)	(7)	(8)	(8)	(8)	(7)	(7)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(7)	(7)	(7)	(8)
Totals	103.3	91.24	55.92	68.5	68.9	76.9	471.0	366.5	28.05	27.85	31.1	30.25	90.19	92.07	40.05	19.15	47.82	37.3	44.2	84.39	28.2
Averages	12.91	86.15	52.24	9.79	8.61	9.61	67.3	52.4	3.51	3.48	3.89	3.78	79.07	82.93	5.01	2.39	47.82	5.33	6.31	76.71	3.52
Minima	12.2	86.15	52.24	9.2	8.0	9.0	64.0	48.5	3.35	3.35	3.75	3.7	79.07	82.93	4.75	2.3	46.23	5.1	5.9	76.71	3.2
Maxima	13.4	98.46	57.69	10.3	9.2	10.2	69.0	60.5	3.7	3.65	4.3	4.1	97.37	98.65	5.3	2.6	49.52	5.7	7.3	88.14	3.8

## KOBUK RIVER

300216	13.4	88.5	53.0	9.2	7.8	9.6	71.0	48.5	3.3	3.3	3.9	3.75	84.6	88.0	4.9	2.6	53.1	5.5	6.4	85.9	3.9
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<sup>1</sup> Allowance made for wear of teeth, where needed.<sup>2</sup> Near.



## SHAGELUK (YUKON) INDIANS: MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
345378	(A. H.) U.S.N.M.	Refuge Creek above Greyling River.	55	-----	18.6	13.2	14.1	70.97	88.68	-----	15.30	-----	Considerable	12.2	7.3
345369	do.	Near Shageluk	60	-----	18.3	13.1	13.8	71.58	87.90	-----	15.07	-----	do.	12.8	7.9
345356	do.	do.	60	-----	18.5	13.9	14.8	75.14	91.36	-----	15.73	-----	do.	13.4	8.3
345371	do.	Holokachakat.	40	-----	18.6	14.0	13.0	75.27	79.75	-----	15.20	-----	Slight	13.6	8.0
345379	do.	Near Shageluk	60	-----	18.3	13.8	13.6	75.41	84.74	-----	15.23	-----	Considerable	12.6	7.6
Specimens			(5)	-----	(5)	(5)	(5)	(5)	(5)	-----	(5)	-----		(5)	(5)
Totals			275	-----	92.30	68.00	69.30	-----	-----	-----	76.53	-----		64.60	39.10
Averages			55	-----	18.46	13.60	13.86	73.67	86.46	-----	15.31	-----		12.92	7.82
Minima			40	-----	18.3	13.1	13.0	70.97	79.75	-----	15.07	-----		12.2	7.3
Maxima			60	-----	18.6	14.0	14.8	75.41	91.36	-----	15.73	-----		13.6	8.3

Catalog No.	Diam. Bizygomatic max. (c)	Facial Ind. $\left(\frac{a \times 100}{c}\right)$ total	Facial Ind. $\left(\frac{b \times 100}{c}\right)$ upper	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Racial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Ind. right	Orbital Ind. left	Nose—Height	Nose—Breadth max.	Nasal Ind.	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index	Lower Jaw—Height at Symphysis
345378	13.9	87.77	52.52	10.2	9.0	10.5	71.5	51.0	3.7	3.8	4.2	4.0	88.10	95.0	5.35	2.5	46.73	5.4	6.4	84.98	3.7
345369	13.4	95.52	58.96	10.3	9.3	10.4	68.0	58.0	3.6	3.8	4.1	4.1	87.80	92.68	5.65	2.5	44.25				4.0
345356	13.8	97.10	60.14		9.0	10.4			3.45	3.6	4.15	4.05	88.13	88.89	5.45	2.9	63.21				4.1
345371	13.7	99.27	58.59	10.5	9.0	10.0	64.0	52.0	3.25	3.3	3.65	3.6	89.04	91.67	5.15	2.05	39.81	5.9	6.2	95.16	4.25
345379	13.7	91.97	55.47	10.3	9.2	10.4	69.5	57.0	3.65	3.8	4.3	4.1	84.88	92.68	5.2	2.4	46.15	5.5	6.5	84.62	3.9
Specimens	(5)	(5)	(5)	(4)	(5)	(5)	(4)	(4)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(3)	(3)	(3)	(5)
Totals	68.50			41.30	45.50	51.70	273.0	218.0	17.65	18.30	20.40	19.85	86.52	92.19	26.8	12.35	46.08	16.80	19.10		19.95
Averages	13.70	94.51	57.08	10.33	9.10	10.34	68.25	54.50	3.53	3.66	4.08	3.97	87.13	88.89	5.36	2.47	46.08	5.60	6.37	87.95	3.99
Minima	13.4	87.77	52.52	10.2	9.0	10.0	64.0	51.0	3.25	3.3	3.65	3.6	83.13	88.89	5.15	2.05	39.81	5.4	6.2	84.58	3.7
Maxima	13.9	99.27	60.14	10.5	9.3	10.5	71.5	58.0	3.7	3.8	4.3	4.1	89.04	95.0	5.65	2.9	53.21	5.9	6.5	95.16	4.25

<sup>1</sup> Allowance made for wear of teeth, where needed.<sup>2</sup> Near.



## SHAGELUK (YUKON) INDIANS: FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella and maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
345304	U.S.N.M.	Near Shageluk	60	---	17.6	12.8	13.4	72.73	88.16	---	14.60	---	Considerable	12.9	7.6
345380	do	do	35	---	18.2	13.3	13.5	73.08	85.71	---	15.0	---	Moderate	12.2	7.7
345361	do	do	20	---	18.1	13.4	13.4	74.03	85.08	---	14.97	---	---	11.6	7.1
345382 (large)	do	do	65	---	18.4	13.7	14.4	74.46	89.72	---	15.50	---	Considerable	12.3	7.0
345383	do	do	45	---	17.6	13.2	12.8	75.0	83.12	---	14.53	---	Medium to considerable	13.6	8.1
345359	do	Holokachakat	20	---	17.4	13.2	12.7	75.86	80.89	---	14.43	---	---	12.1	7.6
345363	do	Near Shageluk	28	---	17.3	13.2	12.4	76.30	81.31	---	14.30	---	Slight	11.8	7.3
345366 (massive)	do	do	50	---	18.4	14.1	13.8	76.63	84.92	---	15.43	---	Medium	12.4	7.3
345360	do	do	35	---	17.2	13.2	13.6	76.74	89.47	---	14.67	---	Slight	11.4	7.1
345353	do	do	65	---	17.4	13.4	13.4	77.01	87.01	---	14.73	---	Considerable	12.5	6.9
345370	do	Near Greyling River (Refuge Creek)	50	---	17.3	13.3	13.0	77.33	85.25	---	14.50	---	Medium	12.5	7.5
345377	do	Near Shageluk	55	---	17.6	13.7	13.2	77.84	84.55	---	14.83	---	Medium to considerable	13.0	7.6
345381	do	do	30	---	16.8	13.6	12.6	80.95	82.89	---	14.33	---	Slight	13.1	8.1
Specimens			(13)		(13)	(13)	(13)	(13)	(13)		(13)			(12)	(13)
Totals			558		229.3	174.10	172.2	75.93	85.37		191.82			148.9	96.9
Averages			42.9		17.64	13.39	13.25	76.93	85.37		14.76			12.41	7.45
Minima			20		16.8	12.8	12.4	72.73	80.89		14.30			11.4	6.9
Maxima			65		18.4	14.1	14.4	80.95	89.72		15.50			13.6	8.1

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, $\left(\frac{a}{b} \times 100\right)$ total	Facial Index, $\left(\frac{c}{b} \times 100\right)$ upper	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index	Lower Jaw—Height at Symphysis
345364	12.9	100.0	58.91	10.1	8.6	9.7	64.5	45.5	3.8	3.9	4.1	4.1	92.68	95.12	5.4	2.6	48.15	5.5	6.2	88.71	3.6
345380	12.9	94.57	59.69	10.2	9.0	10.4	69.0	54.5	3.7	3.75	4.0	3.95	92.50	94.94	5.3	2.4	45.28	5.5	6.4	86.94	3.45
345361	12.0	96.67	59.17	9.6	8.8	9.9	71.0	62.0	3.4	3.5	3.7	3.6	91.89	97.22	5.0	2.2	44.0	5.1	5.9	86.44	3.25
345382 (large)	12.9	95.85	54.26	9.9	9.0	10.4	74.0	58.0	3.3	3.5	4.1	3.9	90.49	99.74	5.1	2.6	49.98	5.4	6.5	83.08	3.9
345383	13.3	102.3	60.90	10.2	8.6	9.9	64.0	48.5	3.8	3.55	4.1	3.8	92.68	93.42	5.35	2.3	42.99	5.7	6.4	89.06	4.1
345359	12.9	93.80	58.91	9.4	8.4	9.6	63.0	58.5	3.75	3.8	3.8	3.75	98.68	101.3	5.3	2.2	41.51	5.2	6.5	80.0	3.45
345363	12.5	94.10	58.40	10.0	8.9	9.8	65.5	54.5	3.4	3.45	3.9	3.8	87.18	90.79	5.1	2.4	47.06	5.5	6.0	91.67	3.45
345366 (massive)	13.5	91.85	54.07	9.8	8.8	10.1	71.0	58.0	3.3	3.5	4.2	4.0	82.14	87.50	5.15	2.55	49.51	5.5	6.6	86.36	3.75
345360	13.0	84.44	52.59	9.7	8.6	10.0	71.0	52.0	3.3	3.5	3.95	3.85	83.54	90.91	5.1	2.4	47.06	5.5	6.5	88.71	3.45
345353	13.0	84.44	52.59	9.7	8.6	10.0	71.0	52.0	3.3	3.5	3.95	3.85	83.54	90.91	5.1	2.4	47.06	5.5	6.5	84.52	3.5
345370	12.5	100.0	60.0	9.4	8.5	9.4	66.5	60.0	3.6	3.5	4.05	3.95	88.89	88.61	5.2	2.3	44.23	5.4	6.1	88.52	3.85
345377	13.0	100.0	58.46	9.4	8.4	9.4	66.0	58.0	3.6	3.6	3.8	3.8	94.74	94.74	5.2	2.4	45.15	5.4	6.7	80.60	3.7
345381	12.8	102.3	63.28	9.3	8.0	9.3	64.5	53.5	3.8	3.9	3.9	3.8	97.44	102.6	5.5	2.3	41.82	5.3	6.6	80.30	3.9
Specimens	(13)	(12)	(13)	(12)	(13)	(13)	(12)	(12)	(12)	(13)	(12)	(13)	(12)	(13)	(13)	(13)	(13)	(13)	(13)	(13)	(13)
Totals	167.7	117.0	117.0	112.6	112.6	128.2	811.0	663.0	42.9	46.9	47.60	50.10	50.10	98.61	67.70	5.21	31.15	70.70	82.60	82.60	47.35
Averages	12.90	96.25	57.78	9.75	8.67	9.86	67.58	55.25	3.58	3.61	3.97	3.85	90.13	98.61	5.21	2.40	46.01	5.44	6.35	85.59	3.64
Minima	12.0	84.44	52.59	9.3	8.0	9.3	63.0	45.5	3.3	3.45	3.7	3.6	80.49	87.50	5.0	2.2	41.51	5.1	5.9	80.0	3.25
Maxima	13.5	102.3	60.90	10.2	9.0	10.4	74.0	62.0	3.8	3.9	4.1	4.1	98.68	102.6	5.5	2.6	50.98	5.7	6.7	91.67	4.1

: Near.

: Allowance made for wear of teeth, where needed.



NORTHWEST CANADA INDIANS: MALES  
(Dené)

TUKKUTHKUCHIN

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad max.)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
243446	U.S.N.M.	Fort McPherson, Peel River.	Adult.	-----	18.5	14.6	13.2	78.9	79.8	-----	15.43	1,440	-----	12.4	7.5
243448	do	do	do	-----	19.1	15.3	13.3	80.1	77.3	-----	15.90	1,550	-----	12.4	7.5

HARES

243996	do	Fort Good Hope	Adult	-----	18.0	14.9	13.4	82.8	81.5	-----	15.43	1,700	-----	11.9	7.0
Specimens	-----	-----	-----	-----	(3)	(3)	(3)	(3)	(3)	-----	(3)	(3)	-----	(3)	(3)
Totals	-----	-----	-----	-----	55.6	44.8	39.9	80.6	79.5	-----	46.77	4,690	-----	36.7	22.0
Averages	-----	-----	-----	-----	18.53	14.93	13.30	80.6	79.5	-----	15.59	1,563	-----	12.23	7.33

## TUKKUTHKUCHIN

Catalog No.	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxim.	Upper Alveolar Arch— Breadth maxim.	Upper Alveolar Arch— Index	Lower Jaw—Height at Symphysis
243446	15.3	81.0	49.0	10.4	9.3	10.3	68.0	54.5	3.45	3.5	4.1	4.05	87.1	86.4	5.4	2.4	44.4	6.2	7.0	88.6	4.2
243448	14.5	85.5	51.7	10.5	9.4	10.4	68.5	52.5	3.2	3.2	4.0	3.95	80.0	81.0	5.5	2.6	47.3	5.7	6.6	86.4	3.8

## HARES

243906	14.4	82.6	48.6	10.3	9.3	9.9	67.0	52.5	3.25	3.2	4.1	4.05	79.3	79.0	5.2	2.45	47.1	5.7	6.9	82.6	3.65
Specimens	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Totals	44.2	31.2	28.0	30.6	28.0	30.6	203.5	159.5	9.9	9.9	12.2	12.05	81.1	82.2	16.1	7.45	46.3	17.6	20.5	85.9	11.65
Averages	14.73	83.0	49.8	10.40	9.33	10.20	67.8	53.2	3.30	3.30	4.07	4.02	81.1	82.2	5.37	2.48	46.3	5.87	6.83	85.9	3.88



# NORTHWESTERN AND ALASKAN INDIAN CRANIA (General Abstract)

Measurement	MALES					FEMALES							
	North-west coast	Southeast Alaska		South-west Alaska	Yukon Indians	Shageluk (Yukon) Indians	North-west Dené, Canada	North-west coast	Southeast Alaska		South-west Alaska	Yukon Indians	Shageluk (Yukon) Indians
		Haida	Tlingit						Haida	Tlingit			
Approximate mean age.....	{ 55.9	(2)	(18) (Adult)	(5)	(10)	(5)	(3) (Adult)	(16) 43.8	(2) (Adult)	(11) (Adult)	(4) 43.5	(8) 40.0	(13) 42.9
Vault:													
Length.....	{ 17.74 (11)	(2) 17.75	(18) 18.59	(5) 18.04	(10) 18.35	(5) 18.46	(3) 18.53	(16) 17.01	(2) 17.10	(11) 17.48	(4) 16.90	(8) 17.18	(13) 17.64
Breadth.....	{ 14.40 (9)	(2) 14.90	(18) 14.88	(5) 14.68	(10) 14.07	(5) 13.60	(3) 14.93	(16) 13.85	(2) 14.0	(11) 14.37	(4) 14.28	(8) 13.50	(13) 13.39
Height.....	{ 13.39 (11)	(2) 13.40	(18) 13.72	(5) 13.64	(10) 13.73	(5) 13.86	(3) 13.30	(16) 12.89	(2) 12.9	(11) 12.95	(4) 12.13	(8) 12.86	(13) 13.25
Cranial index.....	{ 81.2 (9)	(2) 83.9	(18) 80.0	(5) 81.4	(10) 76.6	(5) 73.7	(3) 80.6	(16) 81.4	(2) 81.9	(11) 82.2	(4) 84.5	(8) 78.6	(13) 75.9
Mean height index.....	{ 83.6 (9)	(2) 82.1	(18) 82.0	(5) 83.4	(10) 84.7	(5) 86.5	(3) 79.5	(16) 83.6	(2) 83.0	(11) 81.3	(4) 77.8	(8) 83.9	(13) 85.4
Module.....	{ 15.14 (9)	(2) 15.35	(18) 15.73	(5) 15.45	(10) 15.39	(5) 15.31	(3) 15.59	(16) 14.59	(2) 14.67	(11) 14.93	(4) 14.43	(8) 14.51	(13) 14.76
Capacity.....	{ 1,500 (12)	(2) 1,500	(18) 1,568	(1) (1525)	(10) (1525)	(5) (1525)	(3) 1,563	(16) (1525)	(2) 1,185	(3) 1,377	(4) (1525)	(8) (1525)	(13) (1525)
Face:													
Total height.....	{ 12.20 (3)	(2) 12.20	(14) 12.44	(3) 12.53	(10) 12.85	(5) 12.92	(3) 12.23	(4) 11.20	(2) 11.20	(7) 11.63	(2) 11.50	(7) 11.76	(12) 12.41
Upper height.....	{ 7.60 (6)	(2) 7.35	(17) 7.65	(4) 7.6	(10) 7.66	(5) 7.82	(3) 7.33	(11) 6.89	(2) 6.9	(10) 6.99	(4) 7.27	(7) 7.13	(13) 7.45
Maximum breadth.....	{ 14.28 (3)	(2) 13.95	(18) 14.65	(5) 14.3	(10) 13.91	(5) 13.70	(3) 14.73	(13) 13.12	(2) 13.35	(9) 13.39	(4) 12.90	(8) 12.91	(13) 12.90
Facial index: Total.....	{ 54.2 (3)	(2) 87.5	(14) 85.0	(3) 89.09	(10) 89.9	(5) 94.3	(3) 83.0	(4) 85.8	(2) 51.7	(7) 86.7	(2) (91.3)	(7) 91.2	(12) 96.3
Facial index: Upper.....	{ 52.7 (3)	(2) 52.7	(17) 52.2	(4) 53.8	(10) 55.1	(5) 57.1	(3) 49.8	(11) 52.7	(2) 51.7	(9) 52.7	(4) 56.4	(7) 55.3	(13) 57.8
Base, etc.:													
Endobasion-Prealveolar point.....	{ 10.30 (5)	(2) 10.10	(18) 10.34	(4) 10.18	(10) 10.14	(4) 10.33	(3) 10.40	(11) 9.98	(2) 9.30	(10) 9.93	(4) 9.32	(7) 9.79	(12) 9.75
Endobasion-Subnasal point.....	{ 9.10 (9)	(2) 9.20	(18) 9.22	(5) 8.9	(10) 8.96	(5) 9.10	(3) 9.33	(14) 8.7	(2) 8.30	(10) 8.82	(4) 8.30	(8) 8.61	(13) 8.67
Endobasion-Nasion.....	{ 10.29 (3)	(2) 10.25	(18) 10.31	(5) 10.02	(10) 10.17	(5) 10.34	(3) 10.20	(16) 9.75	(2) 9.50	(10) 9.76	(4) 9.27	(8) 9.61	(13) 9.86
Facial angle.....	{ 69.7 (3)	(2) 70.0	(17) 68.09	(4) 66.9	(10) 67.9	(4) 68.3	(3) 67.8	(11) 68.6	(2) 70.2	(10) 67.90	(4) 66.4	(7) 67.3	(12) 67.6
Alveolar angle.....	{ 53.3 (3)	(2) 53.0	(17) 55.56	(4) 53.0	(10) 54.1	(4) 54.5	(3) 53.2	(11) 50.9	(2) 55.8	(10) 53.20	(4) 56.4	(7) 52.4	(12) 55.3





ALASKA PENINSULA: MALES  
(Mixed Group: Eskimo-Koniag-Aleut)

Catalog No.	Collection	Locality	Ap- proxi- mate age of sub- ject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
363559	(A. H.) U.S.N.M.	Kvichak River	65	---	18.7	14.2	12.8	75.94	77.81	---	15.23	---	---	12.7	7.3
363587	do	do	40	---	18.5	14.1	13.6	76.24	83.44	---	15.40	---	---	12.7	7.7
363582	do	Pawik, Naknek River	35	---	18.0	14.0	12.4	77.78	77.50	---	14.80	---	---	12.9	7.7
363570	do	do	60	---	17.5	13.8	13.4	78.85	85.62	---	14.90	---	---	---	---
363578	do	do	40	---	18.2	14.4	13.9	79.12	85.28	---	15.50	---	---	12.5	7.1
363589	do	Egegik	60	---	18.4	14.6	13.3	79.95	80.61	---	15.43	---	---	12.8	7.7
363568	do	Pawik	24	---	18.5	14.7	13.8	79.45	83.13	---	15.67	---	---	12.2	7.7
363548	do	Kvichak River	30	---	18.8	15.0	14.8	79.79	87.57	---	16.20	---	---	12.8	7.8
363562	do	do	21	---	17.8	14.2	13.7	79.79	85.63	---	15.23	---	---	11.6	7.1
363560	do	do	60	---	18.4	14.7	13.4	79.89	80.97	---	15.50	---	---	13.3	7.8
363589	do	do	65	---	17.4	14.1	12.7	81.03	80.63	---	14.73	---	---	12.3	6.9
363556	do	do	45	---	18.2	14.8	13.2	81.32	80.0	---	15.40	---	---	12.6	7.2
363557	do	do	50	---	17.6	14.4	13.8	81.82	83.25	---	15.27	---	---	13.0	8.1
363574	do	Pawik	65	---	18.0	15.0	12.7	83.33	76.97	---	15.23	---	---	12.8	7.6
363592	do	Egegik	45	---	17.7	14.8	13.7	83.62	84.31	---	15.40	---	---	12.6	7.6
363552	do	Kvichak River	35	---	17.4	14.6	12.8	83.91	82.0	---	14.93	---	---	12.8	7.8
363579	do	Pawik	50	---	17.2	14.9	13.7	83.63	85.36	---	15.27	---	---	12.8	7.5
363577	do	do	35	---	17.5	15.2	13.3	83.86	81.35	---	15.33	---	---	12.8	7.6
363588	do	Egegik	65	Moderate lateral occi- pital flattening.	(17.8)	(15.4)	(14.6)	---	---	---	15.93	---	---	14.5	8.6
Specimens	---	---	(19)	---	(18)	(18)	(18)	(18)	(18)	---	(19)	---	---	(18)	(18)
Totals	---	---	860	---	323.8	261.5	241.0	---	---	---	291.36	---	---	229.7	136.8
Averages	---	---	46.8	---	17.99	14.53	13.39	80.77	82.35	---	15.33	---	---	12.76	7.6
Minima	---	---	21	---	17.2	13.8	12.4	76.94	76.97	---	14.73	---	---	11.6	6.9
Maxima	---	---	65	---	18.8	15.2	14.8	86.86	87.57	---	16.20	---	---	14.5	8.6



Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index	Lower Jaw—Height at Symphysis
363559	13.1	96.95	55.75	9.5	8.6	10.0	71.5	55.0	3.8	3.8	4.1	4.0	92.68	95.0	5.5	2.45	44.55	4.9	6.3	77.78	3.35
363567	14.8	85.81	52.03	10.3	8.8	10.0	66.0	44.5	3.5	3.5	4.0	3.8	87.50	92.11	5.2	2.5	45.05	5.7	6.2	79.17	3.7
363582	13.8	93.48	55.89	10.6	9.3	10.0	63.5	52.5	3.6	3.6	4.0	4.0	87.50	90.0	5.4	2.2	42.31	5.5	6.6	83.23	3.9
363570									3.6	3.6	4.0	3.8	90.0	94.74	5.4	2.2	40.74	5.3	6.8	77.94	3.4
363578	13.6	91.91	52.21	9.8	9.0	9.9	69.5	54.5	3.5	3.5	3.9	3.8	91.03	94.74	4.7	2.1	44.68	5.7	7.0	81.43	3.7
363589	14.3	89.51	52.85	10.1	9.0	10.2	68.5	56.5	3.5	3.5	4.2	4.1	84.52	86.75	5.3	2.3	42.99	5.5	6.7	82.09	3.55
363568	14.2	85.95	54.23	11.1	10.0	10.8	67.0	57.0	3.6	3.7	4.1	4.1	89.02	90.24	5.2	2.3	45.19	6.0	6.7	89.55	3.6
363548	14.5	83.23	53.79	10.6	9.3	11.4	75.0	53.0	3.5	3.5	3.9	3.9	85.90	90.54	5.4	2.7	60.0	5.7	6.7	85.07	3.7
363562	13.8	84.06	51.45	10.0	9.3	10.9	77.0	62.5	3.6	3.8	3.9	4.1	93.59	97.44	5.2	2.3	44.23	5.3	7.1	74.65	3.7
363560	14.3	90.01	54.55	10.7	9.5	10.9	70.0	46.0	3.5	3.6	4.1	4.1	84.34	86.75	6.1	2.7	44.26	5.5	6.7	82.09	3.6
363589	13.9	88.49	49.64	9.6	8.5	9.6	69.0	53.5	3.5	3.6	4.0	3.9	83.75	92.31	4.9	2.05	41.84	5.1	6.5	78.46	3.35
363556	14.0	92.0	51.43	9.7	8.5	10.2	73.0	60.5	3.6	3.8	4.1	4.3	87.80	88.37	5.3	2.6	49.06	5.1	6.4	79.69	3.4
363557	13.9	93.52	58.27	10.2	9.0	10.1	71.0	61.0	3.7	3.8	4.2	4.1	89.26	92.68	5.25	2.5	47.62	(5.8)	(6.2)	(93.55)	3.5
363574	14.7	87.07	51.70	10.8	9.6	10.2	65.0	56.0	3.45	3.35	3.9	3.8	88.46	88.16	5.1	2.3	45.10	5.9	6.9	85.51	3.55
363592	15.5	81.29	49.03	10.1	9.2	10.6	72.0	60.0	3.6	3.65	4.1	4.0	87.89	91.25	5.35	2.5	46.73	5.1	6.4	79.69	3.45
363552	13.5	94.81	57.78	9.1	7.9	9.7	69.0	50.0	3.7	3.8	3.8	3.8	97.37	102.6	5.7	2.4	42.11	4.8	6.3	76.19	3.6
363579	14.4	88.85	52.03	9.7	8.6	10.0	69.0	54.0	3.5	3.5	4.0	4.0	87.50	87.50	5.3	2.5	47.17	5.5	7.3	75.34	3.6
363577	14.3	89.51	53.15	9.3	8.6	9.8	69.5	65.5	3.8	3.85	3.85	3.9	98.70	98.72	5.3	2.4	45.28	5.4	6.6	81.82	3.9
363588	15.2	95.59	56.58	9.8	8.8	10.8	71.0	61.0	3.5	3.55	4.0	4.0	88.75	88.75	5.7	2.35	41.23	5.3	7.4	71.62	4.2
Specimens	(18)	(18)	(18)	(18)	(19)	(19)	(18)	(18)	(19)	(19)	(19)	(19)	(19)	(19)	(19)	(19)	(19)	(18)	(18)	(18)	(19)
Totals	255.8	---	---	181.0	170.1	195.4	1,256.5	1,003.0	67.95	69.05	76.20	75.20	86.17	91.82	101.5	45.4	---	97.3	121.6	---	68.35
Averages	14.21	89.80	53.48	10.10	8.95	10.28	69.8	55.7	3.58	3.63	4.01	3.96	87.75	91.82	5.34	2.39	44.73	5.41	6.76	80.02	3.60
Minima	13.1	81.29	49.03	9.1	7.9	9.6	63.5	44.5	3.35	3.35	3.8	3.7	83.75	86.75	4.7	2.05	40.74	4.8	6.3	71.62	3.3
Maxima	15.5	96.95	58.27	11.1	10.0	11.4	77.0	65.5	3.8	3.9	4.2	4.3	98.70	102.6	6.1	2.7	50.0	6.0	7.4	89.55	4.2

<sup>1</sup> Allowance made for wear of teeth, where needed.



ALASKA PENINSULA: FEMALES  
(Mixed Group: Eskimo-Koniag-Aleut)

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
363549	(A. H.) U.S.N.M.	Kvichak River	35		17.6	13.2	12.2	75.0	79.22		14.33			11.8	7.3
363587	do.	Egegik	24		18.0	13.8	13.2	76.67	83.02		15.0			11.8	7.0
363567	do.	Pawik	55		17.7	13.6	12.9	76.84	82.43		14.73			11.8	7.0
363591	do.	Egegik	60		17.2	13.6	13.0	79.07	84.42		14.60			10.8	6.3
363598	do.	Near Iliamna	50		16.8	13.3	12.5	79.17	83.06		14.20				
363558	do.	Kvichak River	70		17.3	13.8	13.0	79.77	83.60		14.70				
363550	do.	do.	60		17.1	13.8	13.0	80.23	86.45		14.63			11.6	6.8
363600	do.	Near Iliamna	45		17.0	13.7	13.4	80.69	87.30		14.70			12.2	7.2
363547	do.	Kvichak River	65		17.1	13.8	13.0	80.70	84.14		14.63			11.4	6.6
363575	do.	Pawik	60		17.5	14.3	13.1	81.71	82.39		14.97			12.5	7.2
363555	do.	Kvichak River	25		16.6	13.6	13.0	81.93	86.09		14.40			11.2	7.0
363576	do.	Pawik	24		17.2	14.2	12.8	82.56	81.53		14.73			10.5	6.1
363603	do.	Egegik	24		17.1	14.4	13.0	84.21	82.54		14.83			11.5	6.4
363561	do.	Pawik	55		17.4	15.0	13.1	86.21	80.86		15.17			12.9	7.9
363580	do.	do.	25		16.4	13.9	13.0	84.76	85.51		14.43			11.1	6.9
363573	do.	do.	50		16.8	14.6	13.7	86.90	87.26		15.03			11.7	6.8
363583	do.	do.	60		16.8	14.6	13.4	86.90	85.35		14.93			12.7	7.5
363551	do.	Kvichak River	60		16.9	14.8	13.6	87.57	85.80		15.19			11.2	6.5
363590	do.	Egegik	40		16.4	14.4	12.5	87.80	81.17		14.43			11.7	7.2
363584	do.	Pawik	55		16.5	14.8	12.8	89.70	81.79		14.70			12.7	7.5
Specimens			(20)		(20)	(20)	(20)	(20)	(20)		(20)			(18)	(18)
Totals			942		341.5	281.2	260.6				294.4			211.1	125.2
Averages			47.1		17.08	14.06	13.03	82.34	83.70		14.72			11.73	6.96
Minima			24		16.4	13.2	12.2	75.0	79.22		14.20			10.5	6.1
Maxima			70		18.0	15.0	13.7	89.70	87.50		15.17			12.9	7.9



Catalog No.	Diam. Bizygomatic maxm. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxm.	Upper Alveolar Arch— Breadth maxm.	Upper Alveolar Arch— Index	Lower Jaw—Height at Symphysis
363549	13.1	90.08	55.73	10.6	9.4	9.8	63.0	51.5	3.25	3.4	3.8	3.7	85.53	91.89	5.15	2.5	48.54	5.6	6.6	84.85	3.4
363557	13.6	86.76	51.47	10.1	9.4	10.6	74.0	47.5	3.45	3.4	3.85	4.0	89.61	89.47	5.05	2.55	50.50	5.3	6.1	86.89	3.3
363567	13.7	86.13	51.69	9.2	8.2	9.6	71.0	56.0	3.7	3.65	4.05	3.8	91.36	91.25	4.95	2.3	46.46	5.1	5.9	86.44	3.3
363591	13.0	83.08	48.46	9.5	8.5	9.8	73.5	48.5	3.4	3.5	4.0	3.95	85.0	88.61	4.8	2.6	54.17	4.9	5.8	84.48	3.3
363598	12.5				8.0	9.2			3.35	3.35	3.65	3.75	91.78	89.83	4.7	2.3	48.94				3.3
363588	13.3	87.22	51.13	10.0	8.8	10.2	72.0	67.5	3.4	3.4		4.0	85.0	85.0	4.6	2.5	54.35	5.2	6.1	85.23	3.4
363550	12.8	95.51	56.25	9.8	8.8	10.3	73.0	57.5	3.45	3.35	4.1	4.0	84.15	83.75	5.0	2.2	50.0	5.1	6.0	85.0	3.3
363600	12.6	90.48	52.38	9.1	8.2	9.8	75.5	52.5	3.5	3.65	3.9	3.7	89.74	98.65	5.15	2.4	46.60				3.0
363547	13.2	94.70	54.55	9.3	8.2	9.5	69.0	55.0	3.5	3.6	3.7	3.7	94.59	97.80	4.9	2.1	42.86	5.1	6.3	80.95	3.6
363575	12.9	86.82	54.26	9.8	8.8	10.0	71.0	55.5	3.6	3.55	3.9	3.9	92.31	91.03	5.0	2.1	42.0	5.1	5.9	80.44	2.75
363555	12.7	82.68	48.03	9.2	8.4	9.4	72.5	58.5	3.45	3.3	3.85	3.7	89.61	89.19	4.25	2.15	50.59	5.1	6.1	83.61	2.9
363576																					
363593																					
363561	14.1	91.49	56.03	9.8	8.6	9.7	65.5	57.0	3.85	3.95	4.2	3.95	91.67	100.0	5.15	2.3	44.66	5.5	6.1	90.16	3.75
363580	13.2	84.69	52.27	9.6	8.6	9.6	69.0	55.5	3.2	3.15	3.8	3.6	84.21	87.50	4.8	2.55	53.13	5.1	6.3	80.95	3.8
363573	13.1	89.91	51.91	9.7	8.6	9.8	70.5	52.0	3.35	3.4	3.9	3.7	85.90	91.89	4.95	2.7	54.55	5.3	6.4	82.81	3.25
363583	13.7	92.70	52.74	10.1	9.0	10.3	70.0	57.5	3.45	3.55		3.95		89.87	4.95	2.2	44.44	5.6	6.5	86.15	3.8
363551	13.2	84.85	49.24	9.5	8.4	9.8	73.0	51.0	3.45	3.4	3.8	3.85	90.79	88.31	4.7	2.15	45.74	5.1	5.9	86.44	3.4
363590	13.3	87.97	54.14	9.4	8.6	9.7	69.5	62.0	3.45	3.5	3.85	3.85	89.61	90.91	5.1	2.5	49.02	5.1	6.3	80.95	3.2
363584	13.6	93.38	55.17			9.9				3.6	3.9	3.9		92.31	5.1	2.15	42.16	5.2	5.9	88.14	3.6
Specimens	(18)	(17)	(17)	(17)	(18)	(20)	(17)	(17)	(15)	(18)	(15)	(18)	(15)	(18)	(19)	(19)	(19)	(17)	(17)	(17)	(19)
Totals	237.6			163.8	154.9	196.6	1,208.0	937.5	51.95	62.70	58.35	69.0			93.25	45.15		88.3	104.4		63.15
Averages	13.20	88.67	52.78	9.63	8.61	9.83	71.1	55.1	3.46	3.48	3.89	3.83	89.03	90.87	4.91	2.38	48.42	5.19	6.14	84.58	3.32
Minima	12.5	82.68	48.03	9.1	8.0	9.2	63.0	47.5	3.2	3.15	3.65	3.6	84.15	83.75	4.25	2.1	42.0	4.9	5.8	79.03	2.75
Maxima	14.1	96.51	56.25	10.6	9.4	10.6	76.0	67.5	3.85	3.95	4.2	4.0	94.59	100.0	5.15	2.7	54.55	5.6	6.6	90.16	3.8

\* Allowance made for wear of teeth, where needed.



## KODIAK ISLAND: KONIAGS, MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabelia ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) 1	Alveol. Pt.-Nasion Height (b)
366720	(A. H.) U. S. N. M.	West shore, mouth of Uyak Bay.	50		18.4	14.7	13.0	79.89	78.55	88.44	15.37				8.0
374762	do	Our Point, Uyak Bay	28		18.4	14.8	13.9	80.43	83.73	93.92	15.70			12.4	7.3
363605	do	do	24		18.0	14.5	13.2	80.56	81.23	91.03	15.23			11.8	7.2
363608	do	do	30		18.1	14.7	13.3	81.22	81.10	90.48	15.37			12.2	7.3
367209	do	do	Y o u n g adult.		18.6	15.2		81.72							7.6
372886	do	do	45		17.8	14.6	14.0	82.02	86.42	95.89	15.47			13.0	7.8
372893	do	do	30		17.5	14.4	13.0	82.29	81.51	90.28	14.97			12.4	7.3
363625	do	do	40		17.7	14.6	13.6	82.49	84.21	93.15	15.30			13.1	7.6
374784	do	do	30		17.3	14.3	12.6	82.66	79.75	88.11	14.73				8.1
363621	do	do	50		18.3	15.2	13.3	83.06	79.42	87.50	15.60			12.4	7.2
363636 (small)	do	do	Y o u n g adult.		17.3	14.4	13.0	83.24	82.02	90.23	14.90				8.0
366711	do	do	23		17.3	14.4	13.5	83.24	85.17	93.75	15.07			12.3	7.7
374746	do	do	45		18.0	15.0	13.4	83.33	81.21	89.53	15.47			12.8	7.8
362473	do	Karluk Lake	Aged		17.1	14.3	13.2	83.63	84.08	92.31	14.87				
374788	do	Our Point, Uyak Bay	40		18.1	15.2	13.2	83.98	79.28	86.84	15.50				7.9
366640 (small)	do	do	30		17.1	14.4	12.6	84.21	80.0	87.50	14.70				7.0
377706	do	do	24		17.8	15.0	12.8	84.27	78.05	85.83	15.20			12.2	7.3
378252	do	do	50		18.7	15.8	14.2	84.49	82.32	89.87	16.23				8.4
367203	do	Karluk	50		17.8	15.1	14.2	84.83	86.32	86.32	15.70			13.2	8.0
377711	do	Our Point, Uyak Bay	55		17.8	15.1	13.7	84.83	83.28	90.73	15.53			12.8	7.7
367217	do	Kiavak	25	Slight lateral oc- cipiental flatten- ing.	17.1	14.6	13.8	85.38	87.06	94.52	15.17			12.2	7.2
372892	do	Our Point, Uyak Bay	35		17.8	15.2	14.7	85.32	80.09	89.09	15.90			12.8	7.8
367236	do	do	45		17.9	15.3	14.7	85.47	88.55	88.55	15.97				7.7
372826	do	do	35		18.0	15.4	13.4	85.56	80.24	87.01	15.60				7.7
366601	do	do	45	Slight lateral oc- cipiental flatten- ing.	17.6	15.1	14.1	85.80	86.24	88.74	15.60				8.1
374761	do	do	23		17.6	15.1	13.4	85.80	81.96	88.74	15.37				6.8
377715	do	do	30		17.0	14.6	13.3	85.88	84.18	91.10	14.97			12.3	7.5
366657 (small)	do	do	50		16.8	14.5	13.5	86.31	86.26	93.10	14.93				8.0



374750	do	do	45	17.6	15.2	13.6	86.96	82.93	89.47	15.47		12.7	7.9
363609	do	do	35	17.7	15.3	13.7	86.44	83.03	89.54	15.57		12.9	7.7
374760	do	do	Y o u n g adult.	17.9	15.5	14.3	86.69	85.63	92.26	15.90			8.4
374749	do	do	40	16.8	14.6	13.0	86.90	82.80	89.04	14.80		11.4	6.5
363623	do	do	50	17.6	15.3	13.2	86.93	80.25	86.27	15.37			7.3
377708(a)	do	do	26	17.9	15.6	13.4	87.16	80.0	85.90	16.63		Face injured	
374751	do	do	24	17.2	15.0		87.21					12.3	7.0
372898	do	do	21	17.4	15.3	13.5	87.99	82.57	88.24	15.40		11.6	7.4
372887 (skele- ton).	do	do	35	16.7	14.7	12.8	88.02	81.53	87.07	14.73		12.8	7.5
19381 <sup>a</sup>	do	do											
378716 <sup>a</sup>	do	do	35	17.9	15.9	14.0	88.83	82.84	88.05	15.93	1,600	13.0	7.6
	do	do	35	17.6	15.7	13.8	89.20	82.83	87.9	15.70	1,550	12.8	7.5
363642	do	do	60	17.7	15.8	13.7	89.27	81.80	86.71	15.73		14.2	(9.1)
374748	do	do	30	16.8	15.0	12.8	89.29	80.50	85.83	14.87		12.4	7.3
372017	do	do	25	17.2	15.4	14.1	89.53	80.50	91.56	15.57		12.2	7.4
367225 (prob- ably small σ).	do	do	25	16.3	14.6	14.0	89.57	90.61	95.89	14.97		12.0	7.1
372894	do	do	55	18.0	16.2	14.2	90.0	83.04	87.65	16.13		12.4	7.5
366656	do	do	40	17.1	15.4	13.6	90.06	83.70	88.31	15.37		12.4	7.4
374752	do	do	35	16.8	15.2	12.9	90.48	80.63	84.87	14.97		12.3	7.3
374747	do	do	30	17.8	16.2	13.4	91.01	78.82	82.72	15.80		12.1	7.4
367204 (prob- ably small σ)	do	do	40	16.3	14.9	13.5	91.41	86.54	90.60	14.90		12.7	7.5
363606	do	do	40	17.1	16.4	14.5	96.91	86.57	88.41	16.0			8.3
372888 (small)	do	do	25			13.0						11.7	6.7
366630	do	do	35	(hyperbrachycephalic)								11.8	7.0
366724	do	do	Aged										7.6
367226	do	do	60	(17.6)	(15.7)	(13.9)	(89.20)	(83.48)	(88.54)	15.73		12.8	7.4
Specimens													
Totals			(52)	(49)	(49)	(48)	(49)	(48)	(47)	(45)	(2)	(35)	(50)
Averages			1961	890.3	738.7	649.6				738.96	3,150	436.4	376.7
Minima			37.7	17.56	15.08	13.53	85.87	83.01	89.72	15.40	1,575	12.47	7.53
Maxima			21	16.3	14.3	12.6	79.89	78.05	82.72	14.70		11.4	6.5
			70	18.7	16.4	14.7	95.91	90.61	95.89	16.23		14.2	8.4

Footnotes on p. 37 at end of table.



## KODIAK ISLAND: KONIAGS, MALES—Continued

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
366720	14.4		55.56	11.1	9.8	10.5	64.5	52.5	3.8	3.8	4.05	3.9	93.84	97.44	5.6	2.9	51.79	5.8	6.7	86.57
374762	14.4	86.11	50.69	10.1	9.2	10.5	72.0	60.0	3.35	3.3	3.95	3.9	84.81	84.62	5.1	2.35	46.08	5.2	6.8	76.47
363605	13.4	88.06	53.73	10.4	9.1	10.1	67.5	52.0	3.6	3.6	3.8	3.8	94.74	94.74	(4.85)	(2.1)	(43.31)	5.7	6.4	89.06
363608	13.5	90.87	54.07	10.3	9.2	10.2	68.5	56.0	3.5	3.4	4.0	3.9	87.50	87.18	5.0	2.5	60.0	5.6	6.6	84.85
367209	15.6		48.72						3.55	3.55	4.1	3.95		89.87	5.3	2.6	49.06	5.6	7.1	78.87
372896	14.6	89.01	48.42	10.4	9.5	11.0	73.0	61.0	3.55	3.55	4.1	3.9	83.68	83.46	5.5	2.5	45.45	5.4	7.0	77.14
372896	14.7	84.85	49.66	9.5	8.7	9.9	71.0	63.0	3.4	3.45	3.9	3.9	87.18	88.46	5.0	2.25	46.0	5.3	6.5	81.54
372893	14.7	91.61	53.14	10.2	9.2	10.2	68.0	58.0	3.4	3.4	4.0	4.0	85.0	85.0	5.3	2.7	50.94	5.7	6.9	82.61
363625	14.3	91.61	53.14	10.2	9.2	10.2	68.0	58.0	3.4	3.4	4.0	4.0	85.0	85.0	5.3	2.7	50.94	5.7	6.9	82.61
374784	14.6		65.86	10.4	8.8	9.6	61.0	48.0	3.35	3.35	4.0	3.5	83.75	86.25	5.4	2.4	44.44	5.7	7.2	79.17
363621	15.0	82.67	65.86	10.5	9.4	10.4	69.0	53.5	3.4	3.3	4.0	3.5	85.0	84.62	5.15	2.6	50.49	5.5	6.5	84.62
363636	13.9		57.55						3.5	3.5	4.1	3.8	86.37	86.37	5.4	2.4	44.44	5.4	6.6	81.82
366711	14.2	86.62	64.22	9.8	8.6	10.2	70.5	55.5	3.5	3.5	4.0	3.9	87.50	92.11	5.2	2.5	48.08	5.5	7.0	78.57
374746	14.0	91.43	55.71	10.6	9.1	10.0	64.0	50.0	3.6	3.6	4.1	3.9	87.80	92.31	5.2	2.6	50.0	5.7	7.0	81.43
362473	15.1		62.67						3.75	3.4	4.1	3.9	91.46	89.29	5.75	2.3	40.0	6.0	7.4	81.08
374788	15.0		47.94						3.6	3.6	3.8	3.8	94.74	94.74	5.5	2.4	43.64	5.3	6.8	77.94
366640	14.6		48.34						3.55	3.55	4.2	4.1	84.52	85.59	5.25	2.5	39.66	5.4	6.7	80.60
377706	15.1	80.79	54.55	10.8	9.8	11.0	68.5	61.0	3.45	3.5	4.1	4.1	84.15	85.37	5.8	2.3	39.66	5.8	7.2	80.56
378252	15.4		54.55						3.7	3.7	3.9	4.0	90.24	90.24	5.7	2.5	48.86	5.5	6.8	83.33
367203			52.74	10.1	9.0	10.2	68.5	54.0	3.7	3.6	3.9	4.0	91.87	90.0	5.6	2.4	42.86	5.4	6.8	79.41
377711	14.6	87.67	49.59	11.3	9.8	10.6	72.5	55.0	3.55	3.5	4.15	4.15	85.54	87.21	5.1	2.8	51.90	6.1	7.2	84.72
372892	15.0	85.53	50.99	10.7	9.5	11.0	71.0	48.0	3.85	3.75	4.2	4.3	91.67	91.67	5.55	2.5	45.04	5.7	7.1	80.28
367236	15.1		55.0						3.95	3.85	4.4	4.2	89.77	91.67	5.9	2.4	45.45	5.4	6.3	85.71
372826	14.0		55.0						3.75	3.75	4.0	4.2	93.75	93.75	5.5	2.8	51.90	6.1	7.2	84.72
366601	14.7		55.0						3.4	3.4	3.8	3.8	90.79	89.47	5.15	2.5	45.45	5.4	6.5	90.77
374701	14.6		55.0						3.3	3.3	4.0	3.9	82.50	84.62	4.8	2.15	44.79	5.2	6.9	75.56
377715	14.2	86.62	52.82	10.5	9.3	10.5	69.5	53.5	3.3	3.3	4.3	4.2	90.70	94.05	5.3	2.6	49.06	6.0	7.0	85.71
366657	14.3		55.94						3.55	3.55	4.2	4.2	81.52	80.95	5.4	2.6	48.15	5.5	6.8	89.88
374750	14.7	80.89	53.74	10.1	8.6	9.8	65.0	46.5	3.3	3.4	4.3	4.2	76.74	80.95	5.6	2.5	44.64	5.7	7.2	79.17
363609	14.8	87.16	52.03	10.0	9.0	10.8	74.0	60.5	3.5	3.55	4.2	4.0	83.53	83.75	5.15	2.5	48.55	5.5	6.7	82.09
374760	15.2		55.26						3.7	3.7	4.2	4.2	88.10	88.10						
374749	13.9	82.01	46.76	9.6	8.8	9.8	72.0	57.5	3.4	3.4	3.8	3.7	89.47	91.89	4.85	2.35	48.45	4.9	6.3	77.78
363623	14.6		50.0						3.5	3.5	3.95	3.8	88.62	92.11	5.2	2.5	48.08	5.4	6.4	84.38
377708(a)	(14.1)								3.9	3.9	3.95	4.1	98.73	95.12						



374751	14.4	85.42	48.61	10.4	9.0	10.4	70.0	55.0	3.1	3.2	4.1	3.9	75.61	82.05	4.9	2.4	48.98	5.6	6.9	81.16
372898	13.6	85.29	54.41	10.5	8.8	9.9	64.5	47.0	3.8	3.8	3.95	3.85	96.22	98.72	5.3	2.6	49.06	5.5	6.6	83.33
372897	14.3	85.51	52.45	10.5	8.8	9.9	64.5	47.0	3.5	3.55	4.05	3.9	86.41	91.02	5.3	2.5	51.55	5.9	6.6	89.39
193813	14.1	92.50	53.90	9.8	8.6	10.0	68.5	58.5	4.0	3.95	3.8	3.95	105.30	100.0	5.2	2.55	49.04	5.4	6.2	87.10
378716 <sup>a</sup>	13.9	92.05	58.93	10.0	8.8	9.6	65.0	49.0	4.0	3.85	3.9	4.0	103.90	97.50	5.2	2.55	49.04	5.4	6.1	88.52
363642	14.8	(95.96)	(61.49)	10.0	8.8	10.2	(64.0)	(59.5)	3.7	3.8	4.2	4.1	88.10	92.68	(5.9)	(2.35)	(39.78)	5.9	7.9	74.68
374748	14.1	87.94	51.77	8.8	7.8	9.2	69.0	57.0	3.55	3.5	3.8	3.7	93.42	94.59	4.95	2.35	47.47	5.2	6.5	80.0
372917	14.7	82.99	50.34	10.5	9.0	10.0	65.0	47.0	3.45	3.5	4.15	4.05	82.31	86.44	5.1	2.6	50.98	6.0	7.0	85.71
367225	14.2	84.61	50.0	10.0	9.2	10.0	70.0	57.5	3.6	3.65	3.9	3.8	92.31	93.05	5.45	2.3	42.21	5.4	6.9	78.26
372894	15.4	80.52	48.70	10.8	9.8	10.7	69.0	58.0	3.6	3.5	4.1	4.3	87.80	81.40	5.3	2.7	50.94	5.9	7.4	79.73
366656	13.7	90.51	54.01	10.4	9.0	10.0	66.0	50.0	3.55	3.55	4.1	3.9	86.59	91.02	5.0	2.4	48.0	5.8	6.4	90.63
374752	14.8	83.11	49.32	9.5	8.6	9.6	68.5	59.0	3.35	3.4	3.85	3.65	87.01	93.16	5.15	2.5	48.54	5.7	6.8	76.47
374747	15.2	79.01	48.68	10.7	9.6	9.8	62.5	57.5	3.55	3.6	4.1	4.0	86.59	90.0	4.9	2.65	64.08	5.6	7.3	78.08
367204	14.0	90.71	55.57	10.1	8.4	9.5	63.0	43.5	3.8	3.7	3.8	3.8	100.0	97.37	5.1	2.2	43.14	5.6	6.3	83.89
363606	15.6	82.39	47.18	10.9	9.6	10.4	64.0	56.5	3.35	3.3	4.1	3.9	81.71	84.62	5.4	2.8	51.85	6.0	7.3	82.19
372888	14.2	82.39	47.18	9.3	8.2	9.8	73.5	47.0	3.5	3.6	4.0	3.8	87.50	94.74	5.1	2.3	45.10	5.4	6.4	84.38
366734	15.2	77.65	46.05	9.9	8.9	10.6	74.0	55.0	3.9	3.9	4.3	4.1	90.70	95.12	5.2	2.6	50.0	5.5	7.0	78.57
367226	15.9	80.50	46.54	9.9	8.9	10.6	74.0	55.0	3.55	3.3	4.1	4.0	86.59	90.0	5.55	2.5	47.62	5.2	6.5	80.0
367226	15.9	80.50	46.54	9.9	8.9	10.6	74.0	55.0	3.55	3.6	4.1	4.0	86.59	90.0	5.55	2.6	46.85	5.3	7.1	74.65
Specimens	(50)	(33)	(48)	(49)	(47)	(47)	(45)	(45)	(50)	(48)	(50)	(48)	(50)	(48)	(48)	(48)	(48)	(50)	(50)	(50)
Totals	728.1	---	---	481.7	427.4	500.6	3,070.5	2,454.5	179.15	171.2	201.95	190.3	---	---	253.15	120.0	---	278.6	340.6	---
Averages	14.56	85.80	51.74	9.83	9.09	10.22	68.23	54.54	3.58	3.57	4.04	3.96	88.71	89.96	5.27	2.50	47.40	5.57	6.81	81.80
Minima	12.4	77.63	46.05	8.8	7.8	9.2	61.0	43.5	3.1	3.2	3.8	3.65	75.61	80.49	4.8	2.15	39.66	4.9	6.1	74.65
Maxima	15.9	92.20	57.55	11.3	10.0	11.2	74.0	63.0	4.0	3.95	4.4	4.3	105.30	100.0	5.9	2.9	54.90	6.1	7.9	99.77

<sup>1</sup> Allowance made for wear of teeth, where needed.

<sup>2</sup> Near.

<sup>3</sup> It was discovered, while this paper was in proof, that these two numbers refer to the same specimen.—Editor.



## KODIAK ISLAND: KONIAGS, FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
363643	(A. H.) U.S.N.M.	Our Point, Uyak Bay.	35		17.9	14.4	13.6	80.45	84.21	94.44	15.30			11.8	7.3
374764	do.	do.	24		18.0	14.5	12.3	80.66	75.70	84.83	14.93			12.0	7.0
367219	do.	Klavak	25		15.7	12.9	12.5	82.17	87.41	96.90	13.70			11.6	6.9
374782	do.	Our Point, Uyak Bay.	Old		17.3	14.3	12.0	82.66	75.95	83.92	14.53				
367228	do.	do.	Old		17.9	14.8	13.3	82.68	81.35	89.86	15.33				
366690	do.	Chief's Point, Uyak Bay.	25		18.1	15.0	13.4	82.87	80.97	89.83	15.50				
362575	do.	Our Point, Uyak Bay.	25		16.8	14.0	13.2	83.33	85.71	94.29	14.67			11.7	7.2
19381 <sup>a</sup>	do.	Near Wash Creek.	22		16.7	14.1	12.6	84.43	81.82	89.86	14.47	1,210		11.6	7.1
372887 <sup>a</sup>	do.	do.	45		17.0	14.4	13.0	84.71	82.80	90.28	14.80			12.3	7.3
378715	do.	do.	24		16.5	14.0	12.4	84.85	81.81	88.67	14.30	1,195		11.4	7.0
374759	do.	do.	25		17.0	14.5	13.2	85.29	88.81	91.03	14.90			11.5	7.1
377746	do.	do.	30		17.3	14.8	13.2	85.55	82.24	89.19	15.10			12.0	7.4
374756	do.	do.	50		16.7	14.3	13.0	85.63	83.87	90.91	14.67			11.4	7.0
366661	do.	do.	50		16.8	14.4	13.1	85.71	83.97	90.97	14.77			12.3	7.4
372889	do.	do.	35		17.2	14.8	13.3	86.05	83.13	89.86	15.10			12.0	7.1
372912	do.	do.	Young adult.		16.8	14.5	13.2	86.31	84.35	91.03	14.83				
367222	do.	do.	28		17.0	14.8	12.3	87.06	77.36	83.11	14.70			11.9	7.5
367220	do.	do.	50		16.3	14.2	12.5	87.12	81.97	88.03	14.33			11.9	7.2
363633	do.	do.	35	Some occipital asymmetry.	17.2	15.0	13.0	87.21	80.75	86.67	15.07				
367218	do.	Klavak	25		16.5	14.4	13.1	87.27	84.79	90.97	14.67				6.2
367239	do.	Spiridon Bay.	26		16.9	14.8	13.4	87.57	84.54	90.54	15.03			12.2	7.3
374755	do.	Our Point, Uyak Bay.	25	Slight lateral occipital flattening.	16.8	14.8	13.2	88.10	83.54	89.19	14.93			11.3	6.9
372918	do.	do.	50		16.6	14.7	13.4	88.55	83.06	91.16	14.90				7.4
374753	do.	do.	30		16.7	14.8	13.2	88.62	83.81	89.19	14.90			11.8	7.3
363043	do.	Spiridon Bay.	30-35		16.9	15.0	13.0	88.76	81.50	86.67	14.97			12.2	7.6
372922	do.	Our Point, Uyak Bay.	24		16.4	14.6	13.2	89.02	85.16	90.41	14.73				6.5
367202	do.	Karluk	30		15.4	13.8	12.8	89.61	87.67	92.75	14.0			11.9	7.5
374757	do.	Our Point, Uyak Bay.	25		16.6	14.9	13.6	89.76	86.35	91.28	15.03			13.1	8.2
362817	do.	Alitak Bay, Kodiak Island.	50		16.7	15.0	13.6	89.82	85.80	90.67	15.10				7.1







## KODIAK ISLAND: KONIAGS, FEMALES—Continued

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxm.	Upper Alveolar Arch— Breadth maxm.	Upper Alveolar Arch— Index
372912	14.0	85.0	59.57	10.2	8.8	9.6	68.0	43.5	3.75	3.85	4.0	3.9	93.75	98.72	5.35	2.45	45.79	5.3	6.4	82.81
367222	13.4	88.81	53.73	8.9	8.0	9.3			3.65	3.6	3.8	3.7	96.05	97.50	3.05	2.3	45.55	4.7	6.4	73.44
367230	13.4					9.6			3.45	3.45	4.2	4.1	85.71	84.15	4.9	2.4	48.98			
363633	12.5		49.60	9.5	8.2	9.2	68.0	43.5	3.2	3.2	3.7	3.6	86.49	88.89	4.5	2.55	56.67	5.0	6.0	82.32
367218	13.3	91.75	54.89	9.6	8.6	9.8	69.5	60.0	3.55	3.55	4.0	4.0	88.75	88.75	4.7	2.5	53.19	5.6	6.2	90.32
367239	13.6	83.09	50.73	10.0	8.4	9.3	63.5	43.5	3.35	3.35	3.9	3.8	85.90	88.16	4.65	2.45	52.69	5.6	6.7	83.58
374755	13.3	88.09	55.64	9.4	8.0	9.5	68.0	51.5	3.55	3.55	3.95	3.9	91.03	88.46	4.85	2.35	48.45	5.3	6.1	86.89
372918	13.3	88.06	54.48	10.2	8.8	9.9	66.5	48.5	3.55	3.55	3.95	3.95	89.87	89.87	5.1	2.0	54.90	5.7	6.3	90.48
374753	13.4	91.04	56.72	9.8	8.5	9.6	66.0	50.5	3.6	3.65	3.75	3.75	96.0	97.33	5.3	2.4	50.53	5.0	6.5	76.92
363043	13.3		48.87	9.4	8.4	9.5	71.0	52.0	3.35	3.35	3.8	3.7	88.16	90.54	4.75	2.15	42.16	5.2	6.0	86.67
372922	13.4	97.76	61.15	9.8	8.3	9.5	63.5	50.0	3.95	4.0	4.1	4.0	96.34	100.0	5.5	2.3	41.82	5.5	6.8	80.88
374757	13.4			9.8	8.3	9.5	63.5	52.0	3.3	3.3	3.8	3.8	86.84		5.0	2.3	46.0			
362817	12.7		54.33	9.5	8.2	9.4	68.0	46.5	3.3	3.35	3.9	3.8	84.62	88.16	5.0	2.55	51.0	4.8	6.3	76.19
366689						9.7														
366723						9.8														
362818	13.4	88.81	54.48	9.6	8.5	9.0	62.5	57.0	3.4	3.4	3.9	3.7	87.18	91.89	4.7	2.45	52.12	5.3	6.5	81.54
367227	13.2		54.55	9.8	8.6	9.3	64.0	51.5	3.45		3.8		90.79		5.0	2.5	50.0	5.4	6.4	84.38
366721	13.9		52.52	9.9	8.9	10.4	72.5	57.5	3.65		4.3		84.88		5.1	2.4	47.06			
366722																				
Specimens	(28)	(19)	(28)	(28)	(31)	(33)	(26)	(26)	(29)	(25)	(29)	(26)	(29)	(26)	(31)	(31)	(31)	(26)	(26)	(26)
Totals	373.2			272.6	265.2	317.7	1,749.0	1,348.5	101.7	91.5	113.8	99.8	89.37	91.68	154.1	74.85		136.8	166.1	
Averages	13.33	89.02	53.91	9.74	8.55	9.63	67.27	51.87	3.51	3.52	3.92	3.84	87.37	89.33	4.97	2.41	48.57	5.25	6.39	82.56
Minima	12.5	83.09	48.87	8.9	7.8	8.9	62.0	42.0	3.2	3.2	3.6	3.5	83.53	83.33	4.45	2.0	37.74	4.7	5.8	73.44
Maxima	13.9	97.76	61.19	10.4	9.0	10.4	72.5	60.0	3.95	4.0	4.3	4.1	97.22	104.43	5.5	3.0	56.67	6.0	7.6	90.48

<sup>1</sup> Allowance made for wear of teeth, where needed.

<sup>2</sup> Near.

<sup>3</sup> It was discovered, while this paper was in proof, that these two numbers refer to the same specimen.—Editor.



## KODIAK ISLAND: KONIAGS, CHILDREN AND ADOLESCENTS

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maximum	Diam. lateral maximum	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlička's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
374702	(A. H.)	Our Point, Uyak Bay	1½ years	---	15.8	13.4	12.2	84.81	83.56	91.04	13.80	---	---	---	5.6
372915	U.S.N.M.	do	2-3 years	---	15.6	12.8	---	---	---	---	---	---	---	8.3	5.1
372920	do	do	3	---	15.9	13.6	12.2	85.53	82.71	89.71	13.90	---	---	9.1	5.8
374766	do	do	3	---	14.5	13.3	11.0	91.72	79.14	82.71	12.97	---	---	7.9	5.6
363045 (♀)	do	Spiridon Bay, Uyak Bay	3 or 4	---	---	---	---	---	---	---	---	---	---	---	4.7
374766(a)	do	Our Point, Uyak Bay	4	Medium occipital flattening.	(15.6)	(14.9)	---	---	---	---	---	---	---	9.1	5.6
363655	do	do	5	---	15.1	14.0	12.4	92.72	85.81	88.57	13.83	---	---	9.5	5.9
372914	do	do	5-6	---	16.2	14.3	12.8	88.27	83.93	89.51	14.43	---	---	8.7	5.2
374785	do	do	6	---	16.9	14.3	12.0	84.62	76.92	83.92	14.40	---	---	9.8	6.0
363663	do	do	6	---	14.8	13.2	12.2	89.19	87.14	92.42	13.40	---	---	8.9	5.5
372913	do	do	6-7	---	15.8	13.7	---	86.71	---	---	---	---	---	10.0	6.0
363664	do	do	8	---	15.5	14.8	12.4	95.48	81.85	83.78	14.23	---	---	---	6.1
374710 (♂)	do	do	10	---	17.9	14.4	13.7	80.45	84.82	95.14	15.33	---	---	---	6.6
374787	do	do	10	---	16.4	14.9	12.8	90.85	81.79	85.91	14.70	---	---	---	6.2
363668 (♂)	do	do	10	---	17.6	15.2	12.1	86.36	78.05	79.61	14.97	---	---	10.5	6.5
367223 (♂)	do	do	10-12	---	15.6	14.8	12.3	94.87	80.92	83.11	14.23	---	---	9.8	5.9
372915	do	do	11	---	16.6	14.4	12.8	86.75	82.58	88.89	14.60	---	---	---	6.0
372921 (♀)	do	do	11	---	15.6	14.1	13.0	90.58	87.54	92.20	14.23	---	---	---	6.4
363637	do	do	12	---	16.5	14.0	12.8	84.85	83.94	91.43	14.43	---	---	---	6.5
372919 (♂)	do	do	15	---	17.8	14.6	12.8	82.02	79.01	87.67	15.07	---	---	---	6.7
374758 (probably ♀)	do	do	16	Slight lateral occipital flattening	16.6	14.8	12.7	89.16	80.89	85.81	14.70	---	---	11.5	6.9
374783 (♀)	do	do	17	---	16.8	13.6	12.9	80.95	84.87	94.85	14.43	---	---	10.8	6.4
374614 (♀)	do	do	Adolescent	---	17.7	14.8	12.8	83.62	78.78	86.49	15.10	---	---	11.1	6.5
363666	do	do	do	---	16.0	14.2	---	88.75	---	---	---	---	---	---	---



## KODIAK ISLAND: KONIAGS, CHILDREN AND ADOLESCENTS—Continued

Catalog No.	Diam. Bitygomatic	Facial Index, total	Facial Index, upper	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—
374702	10.1	79.05	55.45	8.0	7.6	8.6	76.5	70.0	3.2	3.3	3.5	3.5	91.43	82.54	3.85	2.0	51.95	5.0	5.0	Upper Alveolar Arch—
372915	10.5	48.57	53.70						3.4	3.3	3.95	3.95	86.08	82.54	4.6	2.1	45.65	5.5	5.5	Upper Alveolar Arch—
372920	10.8					7.6			3.2	3.2	3.4	3.4	94.12	94.12	(3.4)	2.1	55.26	5.0	5.0	Upper Alveolar Arch—
374766(♂)					7.1	7.4			2.9	3.3	3.2	3.2	90.63	100.0	3.6	1.85	(58.82)	5.2	5.2	Upper Alveolar Arch—
363045(♀)	10.0	79.0	47.0	7.4					3.3	3.35	3.4	3.45	97.06	97.10	4.3	2.0	46.51	5.6	5.6	Upper Alveolar Arch—
374766	10.9	83.49	51.38	8.5	7.6	8.6	71.0	52.0	3.35	3.15	3.3	3.3	96.45	96.45	3.55	2.05	57.76	5.2	5.2	Upper Alveolar Arch—
363655	10.9	85.59	53.15	7.6	7.2	8.5	81.0	69.5	3.35	3.35	3.5	3.45	95.71	97.10	4.0	2.0	50.0	5.5	5.5	Upper Alveolar Arch—
372914	10.9	79.82	47.71	8.3	7.6	8.2	68.0	62.5	3.05	3.0	3.5	3.4	90.0	88.24	3.7	1.8	48.65	5.4	5.4	Upper Alveolar Arch—
374785	11.1	88.29	54.05	18.5	7.6	8.4	70.0	55.5	3.1	3.1	3.3	3.3	92.86	93.94	4.3	2.0	46.51	5.7	5.7	Upper Alveolar Arch—
363663	10.9	81.65	50.46						3.25	3.3	3.5	3.4	92.86	97.08	4.4	2.0	45.45	6.1	6.1	Upper Alveolar Arch—
372913	11.0	90.91	54.55	8.1	7.2	8.5	71.5	54.5	3.35	3.3	3.7	3.7	90.64	93.24	4.8	2.25	46.88	6.6	6.6	Upper Alveolar Arch—
363664	11.8	51.69	52.80	9.2	8.7	9.8	75.0	68.0	3.5	3.45	3.6	3.6	91.59	100.0	4.4	2.0	45.45	5.7	5.7	Upper Alveolar Arch—
374710(♂)	12.5			8.1	8.4	9.5	69.0	61.0	3.5	3.6	3.7	3.5	97.30	102.86	4.4	2.2	50.0	6.4	6.4	Upper Alveolar Arch—
374787				9.2	8.0	8.7	67.0	58.5	3.6	3.6	3.7	3.5	86.49	94.29	4.25	2.0	47.06	5.9	5.9	Upper Alveolar Arch—
363668(♂)	12.3	85.37	52.85	8.9	8.0	8.6	71.0	65.0	3.2	3.3	3.7	3.5	82.28	82.28	4.25	2.15	50.59	6.2	6.2	Upper Alveolar Arch—
367223(♂)	11.9	82.55	49.68	8.5	7.9	8.0	72.0	61.5	3.25	3.25	3.95	3.7	87.67	87.84	4.4	2.3	52.27	5.9	5.9	Upper Alveolar Arch—
372915	11.7			8.7	8.0	8.9	72.0	61.5	3.2	3.25	3.65	3.7	87.67	87.84	4.4	2.3	52.27	5.9	5.9	Upper Alveolar Arch—
372921(♀)	12.1			9.2	8.2	9.2	70.0	55.0	3.2	3.25	3.65	3.7	87.67	87.84	4.4	2.3	52.27	5.9	5.9	Upper Alveolar Arch—
363637	12.1			8.5	7.6	8.0	71.0	57.0	3.5	3.7	3.7	3.7	86.84	89.20	4.55	2.4	52.75	6.4	6.4	Upper Alveolar Arch—
372919(♂)	12.7			10.1	9.3	10.2	71.5	58.0	3.3	3.3	3.8	3.7	86.84	89.20	4.95	2.35	47.47	6.3	6.3	Upper Alveolar Arch—
374758(prob. ♀)	12.9	89.15	55.49	9.5	8.6	9.6	69.5	59.0	3.3	3.35	4.0	3.9	81.25	85.90	4.8	2.1	45.75	5.2	5.2	Upper Alveolar Arch—
374783(♀)	12.8	84.38	50.0	9.5	8.3	9.4	69.5	51.0	3.25	3.35	3.8	3.7	81.25	85.90	4.35	2.1	45.75	6.0	6.0	Upper Alveolar Arch—
374614(♀)	13.2	84.09	49.24	9.2	8.4	9.2	69.5	55.5	3.6	3.65	3.7	3.7	94.74	98.65	4.9	2.4	48.98	6.5	6.5	Upper Alveolar Arch—
363666																				Upper Alveolar Arch—

1 Near.



## "RED"

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
37712	U.S.N.M.	Our Point, Uyak Bay	5	---	16.7	12.4	12.7	74.25	87.29	102.42	13.93	---	---	9.3	5.8
372837 (♀)	do	do	9	---	15.6	13.0	12.2	83.33	85.31	93.85	13.60	---	---	---	6.0
372829 (♂)	do	do	9-10	---	17.4	13.6	13.6	78.16	87.74	100.0	14.87	---	---	---	6.4
372782 (♀)	do	do	15	---	17.8	13.6	---	76.40	---	---	---	---	---	---	6.2

## "BLUE"

374574	U.S.N.M.	Our Point, Uyak Bay	16	---	16.9	13.2	13.0	78.11	86.38	98.48	14.37	---	---	---	6.7
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## "RED"

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits-Height, right	Orbits-Height, left	Orbits-Breadth, right	Orbits-Breadth, left	Orbital Index, right	Orbital Index, left	Nose-Height	Nose-Breadth max.	Nasal Index	Upper Alveolar Arch-Length max.	Upper Alveolar Arch-Breadth max.	Upper Alveolar Arch-Upper Index
37712	10.8	86.11	53.70	9.0	8.0	8.4	65.0	50.0	3.2	3.2	3.35	3.4	95.52	94.12	4.1	2.0	48.78	---	5.6	---
372837 (♀)	10.6	---	56.60	8.2	7.4	8.4	71.0	58.0	3.45	3.45	3.45	3.45	100.0	100.0	4.25	2.1	49.41	---	5.7	---
372829 (♂)	11.5	---	55.65	9.5	8.6	9.4	69.5	53.0	3.65	3.6	3.7	3.6	98.65	100.0	4.75	2.15	45.26	---	5.7	---
372782 (♀)	12.4	---	50.0	---	---	---	---	---	3.3	---	3.6	---	91.67	---	4.4	2.2	50.0	---	6.3	---

## "BLUE"

374574	---	---	---	---	---	9.4	---	---	3.25	3.4	3.7	3.6	87.84	94.44	4.5	2.2	48.89	---	5.9	84.76
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<sup>1</sup> Specimens recovered from the upper and supposedly more recent portion of the excavations were marked with a red pencil and those from below with a blue pencil, and thus came to be known as "red" and "blue," respectively.

<sup>2</sup> Near.







Catalog No.	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth, max- im.	Nasal Index	Upper Alveolar Arch— Length maxim.	Upper Alveolar Arch— Breadth maxim.	Upper Alveolar Arch— Index
374765	9.2	90.22	54.35											107.96	3.8	2.0	52.63		4.8	
374716	10.1		55.45											102.94	4.15	2.0	48.19		5.9	
363665	110.2	97.06	60.78			18.7								97.06	3.9	2.1	53.85		5.6	
366713	11.1	83.78	50.45	8.5	8.0	8.7	73.5	67.0	3.3	3.4	3.5	3.4	92.86							
366718																				
366719																				
374680	11.1	87.59	52.25	8.3	7.8	8.6	72.5	66.5	3.15	3.15	3.4	3.4	91.18	92.55	4.2	2.3	54.76			
374711	11.3		58.10						3.25	3.25	3.45	3.45	94.20	94.20	3.95	2.1	53.16		5.9	
374707																2.0	50.63		5.9	
363662																				
366665																				
366661																				
363658	11.6	86.21	53.45			9.0			3.25	3.25	3.6	3.6	94.44	94.44	4.7	2.4	51.08		5.6	
363669									3.15	3.15	3.7	3.7	87.84	90.28	4.5	2.1	46.67		5.9	
366634																2.0	51.28		5.3	
374628(♀)	110.9	89.91	55.21											89.58	4.2	2.0	47.62		6.0	
363667	11.3		59.29	9.4	8.6	9.4	69.0	59.5	3.2	3.2	3.6	3.6	88.89		4.75	2.15	45.26		5.7	
366609									3.3	3.3	3.5	3.5	92.86	100.0	4.35	2.05	47.13		6.0	
366613	111.8	85.59	51.69			8.7			3.3	3.3	3.5	3.5	94.29		4.3	2.0	46.51		6.1	
374625	112.1	84.21	56.20	9.6	8.4	9.4	67.5	53.0	3.4	3.45	3.8	3.7	89.47	93.24	4.5	2.3	51.11		6.4	85.94
374630	11.9	80.08	54.62	9.8	8.8	10.2	74.5	53.0	3.1	3.15	3.4	3.6	91.18	87.50	4.8	2.3	47.92		6.2	79.03
374672	12.7		56.12	9.6	8.5	9.4	62.0	52.5	3.4	3.55	3.7	3.65	91.89	97.26	4.95	2.15	43.43		6.3	80.95
366615	111.6		58.62						3.35	3.4	3.4	3.4	98.53	100.0	4.9	2.15	43.88		5.6	87.50
374647				9.2	8.4	9.6	71.5	62.0	3.4	3.35	3.8	3.6	89.47	93.06	4.9	2.2	44.90		6.3	79.87
374677(♂)	113.2		53.79			10.6			3.7	3.7	3.8	3.9		94.87	5.25	2.1	40.0		6.3	

1 Near.



## KODIAK ISLAND: PRE-KONIG, "RED" MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
367208	(A. H.) U.S.N.M.	Our Point, Uyak Bay.	40	---	19.5	13.8	14.3	70.77	91.57	108.33	15.20	---	---	---	7.7
363615	do	do	65	---	18.1	13.2	14.3	72.93	88.07	104.55	15.70	---	---	---	8.4
372895	do	do	50	---	18.9	13.8	14.4	73.02	88.07	104.55	15.70	---	---	---	---
366678	do	do	60	---	18.2	13.4	14.8	73.63	88.07	110.45	15.47	---	---	13.8	8.6
367216	do	do	50	---	18.2	13.5	13.7	74.18	86.44	101.48	15.13	---	---	14.3	8.5
367216	do	do	50	---	18.5	13.9	13.9	75.14	85.80	100.0	15.43	---	---	13.2	8.0
374621	do	do	45	---	18.6	14.0	14.2	75.27	88.25	101.43	15.60	---	---	13.1	8.0
374609	do	do	24	---	17.5	13.2	14.2	75.43	92.51	107.58	14.97	---	---	12.0	7.3
374627	do	do	55	---	18.0	13.6	14.7	75.56	88.04	108.09	15.43	---	---	12.7	8.0
363635	do	do	30	---	18.0	13.6	14.7	75.56	88.04	108.09	15.43	---	---	13.6	8.2
374616	do	do	45	---	19.3	14.6	13.4	76.65	79.06	91.78	15.77	---	---	12.7	8.0
367206	do	do	65	---	18.0	13.7	14.5	76.11	91.48	105.84	15.40	---	---	13.6	8.5
372808	do	do	50	---	18.0	13.7	13.7	76.11	86.43	100.0	15.13	---	---	12.7	7.9
372810	do	do	30	---	19.3	14.7	14.0	76.17	82.55	95.24	16.0	---	---	12.9	7.7
372896	do	do	55	---	18.1	13.8	13.9	76.24	87.15	100.72	15.27	---	---	13.4	7.9
377736	do	do	55	---	17.7	13.5	13.5	76.27	86.54	100.0	14.83	---	---	12.9	7.3
363617	do	do	45	---	18.6	14.2	13.8	76.34	84.15	97.18	15.53	---	---	---	8.0
363611	do	do	40	---	18.5	14.2	13.8	76.76	84.40	97.18	15.50	---	---	---	8.3
374685	do	do	45	---	17.4	13.4	14.2	77.01	92.21	105.97	15.0	---	---	13.6	8.5
372836	do	do	35	---	18.7	14.4	14.8	77.01	89.43	102.78	15.97	---	---	13.4	8.1
374682	do	do	50	---	18.3	14.1	13.4	77.05	82.72	95.04	15.27	---	---	---	7.4
363612	do	do	Mid-aged	---	18.6	14.4	14.4	77.43	87.87	100.0	15.80	---	---	---	8.4
363624	do	do	Mid-aged	---	18.6	14.4	14.4	77.43	87.87	100.0	15.80	---	---	13.4	8.3
374607	do	do	35	---	17.6	13.7	14.2	77.72	86.55	99.30	15.63	---	---	13.0	7.7
363618	do	do	30	---	18.1	14.1	14.2	77.84	90.74	103.65	15.17	---	---	12.9	7.8
363622	do	do	25	---	18.1	14.1	14.3	77.90	88.82	101.42	15.50	---	---	13.2	7.9
374606	do	do	40	---	17.7	13.8	14.0	77.97	88.89	101.45	15.17	---	---	13.2	7.5
367221	do	do	45	---	17.4	13.6	13.2	78.16	85.16	97.06	14.73	---	---	---	7.5
374675 (some- what ♀-like but proba- bly ♂.)	do	West side mouth of Uyak Bay.	---	---	---	---	---	---	---	---	---	---	---	---	---
374675	do	Our Point, Uyak Bay.	40	---	17.4	13.6	14.0	78.16	90.32	102.94	15.0	---	---	13.0	7.5
372817	do	do	50	---	18.4	14.4	14.0	78.26	85.37	97.22	15.60	---	---	13.1	7.8
362915	do	Chief's Point, Uyak Bay.	50	---	17.6	13.8	13.8	78.41	87.90	100.0	15.07	---	---	---	7.4
363620	do	Our Point, Uyak Bay.	30	---	18.3	14.4	14.4	78.69	88.07	100.0	15.70	---	---	13.1	7.9
362913	do	Chief's Point, Uyak Bay.	40	---	17.9	14.1	14.0	78.77	87.50	99.29	15.33	---	---	---	7.6



	do.	Our Point, Uyak Bay.	55.	18.4	14.5	13.6	78.80	82.68	93.79	15.50		12.7	7.7
372910.	do.	do.	23.	17.6	13.9	13.0	78.98	82.54	93.53	14.83		12.3	7.5
372813 (some- what ♀-like but ♂skeletal).	do.	do.	Y o u n g adult.	18.0	14.3	14.0	79.44	86.69	97.90	15.43			
366652.	do.	do.	40.	18.0	14.3	14.0	79.44	86.69	97.90	15.43		13.3	8.0
372911.	do.	do.	35.	17.7	14.1	14.7	79.66	92.45	104.26	15.60			8.3
374668.	do.	do.	Old.	17.4	13.9	13.5	79.89	86.26	97.12	14.93			
367237.	do.	do.	65.	17.9	14.3	14.4	79.89	89.44	100.70	15.53		12.3	7.4
374622.	do.	do.	55.	16.8	13.5	13.6	80.56	89.77	100.74	14.63		12.8	7.6
374612.	do.	do.	Aged.	18.1	14.6	14.2	80.66	86.85	97.26	15.63			
366660 (♂ skeletal).	do.	do.	50.	18.1	14.6	13.5	80.66	82.57	92.47	15.40		12.9	7.9
374676.	do.	do.	40.	17.6	14.2	14.2	80.68	89.81	100.0	15.33			7.4
362916.	do.	Chief's Point, Uyak Bay.											
372891.	do.	Our Point, Uyak Bay.	65.	18.0	14.6	12.6	81.11	77.30	86.20	15.07			
374610.	do.	do.	60.	17.2	14.0	14.0	81.40	89.74	100.0	15.07		12.5	7.3
377714 (some- what ♀-like but ♂skeletal).	do.	do.	19.	16.9	13.9	13.7	82.25	88.96	98.56	14.83		12.9	7.7
372811.	do.	do.	35.	17.5	14.4	14.0	82.29	87.77	97.22	15.30		13.5	8.1
363619 (mixed?, red- Koniag?).	do.	do.	50.	17.4	14.4	14.4	82.76	90.57	100.0	15.40			7.7
362914.	do.	Chief's Point, Uyak Bay.	60.	(17.0)	(13.9)	(13.6)	(81.76)	(88.03)	(97.84)	14.83			7.8
366710.	do.	Our Point, Uyak Bay.	50.	(16.9)	(13.8)	(14.4)	(81.66)	(93.81)	(104.55)	15.03			8.0
367201.	do.	Middle Goose Island.	55.	(16.3)	(14.1)	(13.2)	(86.50)	(86.84)	(93.62)	14.53			7.1
374608.	do.	Our Point, Uyak Bay.	55.	(18.2)	(15.1)	(13.5)	(82.97)	(81.03)	(89.40)	15.60		13.7	8.2
374674 (a typical extra- neous?).	do.	do.	50.	(17.8)	(15.1)	(14.0)	(84.83)	(84.83)	(92.72)	15.63		13.6	7.8
378251.	do.	do.	50.	(17.5)	(15.0)	(14.3)	(85.71)	(88.00)	(95.33)	15.60		13.5	8.4
Specimens			(54)	(48)	(48)	(46)	(48)	(40)	(46)	(52)		(33)	(48)
Totals			2487	865.4	672.1	643.1	77.66	87.55	99.77	796.33		432.5	378.0
Averages			46.1	18.03	14.0	13.98	70.77	77.80	86.50	15.31		13.11	7.88
Minima			19.	16.8	13.2	12.6	70.77	77.80	86.50	14.53		12.0	7.3
Maxima			70.	19.5	14.7	14.8	82.76	93.67	110.45	16.00		14.3	8.6

Footnotes on P. 49 at end of table.



## KODIAK ISLAND: PRE-KONIG, "RED" MALES—Continued

Catalog No.	Diam. Bizygomatic	Facial Index, total	Facial Index, upper	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxm.	Upper Alveolar Arch— Breadth maxm.	Upper Alveolar Arch— Index
367308	14.0		60.0			11.4			3.75		4.0		93.75		5.3	2.8	52.83	5.1	6.5	78.46
363615	14.3					10.6														
372895	14.0	98.57	61.43	10.4	9.4	11.2	71.5	60.5	3.65	3.7	4.0	3.9	91.25	94.87	5.9	2.45	41.63	5.6	6.7	83.68
366678	13.8	103.62	61.59	10.2	8.9	10.4	64.0	54.0	3.8	3.85	4.1	4.0	92.68	96.25	5.4	2.5	46.30	6.2	7.1	87.32
367216	14.4	91.67	55.56	10.7	9.4	10.6	66.0	55.0	3.9	4.0	4.1	4.0	96.12	100.0	5.3	2.55	48.11	5.7	6.9	82.61
374621	13.7	95.62	58.39	10.5	9.4	10.7	69.0	56.5	3.65	3.65	4.2	4.1	86.90	89.02	5.65	2.35	41.59	5.4	6.9	78.26
374609	13.3	90.23	54.89	10.5	9.5	10.6	67.5	50.5	3.7	3.55	3.9	3.8	94.87	93.42	5.35	2.5	46.73			
374627	13.3			11.7	10.4	11.4	67.5	50.5												
363635	14.9	91.28	55.03	10.8	9.8	10.6	66.5	62.0	3.7	3.65	4.1	4.0	90.24	91.25	5.45	2.7	49.54	5.9	7.0	84.29
374616	15.0		56.67	10.9	9.6	11.1	68.0	54.0	4.0		4.5		88.89		6.0	2.4	40.0	6.0	7.2	83.33
367206	13.7	92.70	57.66	10.5	9.3	10.3	66.0	55.5		3.45		3.9		88.46	5.4	2.3	42.59	5.8	7.2	80.56
372808	13.2	97.73	58.33						3.6	3.75	3.8	4.2	94.74	89.29	5.5	2.6	47.27	5.5	6.7	82.09
372810	14.5	92.41	54.48	10.9	9.6	10.8	68.0	60.5	3.8	3.75	4.3	4.1	83.72	90.24	5.3	2.6	49.06	5.9	7.0	84.29
372896	13.6		53.68	10.3	8.8	10.2	66.0	46.0	3.8	3.9	4.0	4.0	95.0	97.5	5.8	2.5	43.10	5.4	6.7	80.60
377736		94.85	58.82																	
363617	14.6		56.85	10.6	9.4	10.6	67.0	58.0	3.5		4.1		85.87		5.5	2.7	49.09	5.7	7.3	76.71
374685	13.2	103.03	64.39	10.2	9.3	10.8	70.0	62.0	3.35	3.45	4.1	3.8	83.85	90.79	5.85	3.2	41.03	5.5	7.3	75.34
372836	14.0	95.71	57.86	11.1	10.0	11.4	71.0	60.0	3.9	3.8	4.2	4.2	92.86	90.48	5.3	2.65	50.0	5.8	6.8	85.29
374682	14.5			9.6	8.6	10.2	72.5	58.0	3.85	3.85	4.1	4.1	93.90	93.90	5.15	2.3	44.66	5.2	6.9	75.36
363612	14.8		56.76	10.7	9.6	11.0	69.5	61.0	3.7	3.85	4.4	4.2	84.09	91.67	5.5	2.8	50.91	5.6	7.2	77.78
363624	14.6		56.85	10.8	9.6	10.4	64.5	58.5	3.7	3.6	3.8	3.7	97.57	97.57	5.4	2.5	46.30	5.8	7.2	80.56
374607	14.3	91.78	56.85	10.3	9.0	10.4	69.0	52.5	3.5	3.5	4.1	4.1	85.37	85.37	5.35	2.4	44.86	5.5	6.9	79.71
363618	14.2	91.55	54.22	10.3	9.0	10.8	74.5	60.0	3.6	3.7	3.9	3.9	92.31	94.87	5.7	2.7	47.37	5.3	6.5	81.54
363622	13.7	96.35	57.66	10.4	9.3	10.6	69.5	57.5	3.65	3.65	4.0	3.9	91.25	93.59	5.5	2.6	47.27	5.4	7.0	77.14
374606	13.8	95.65	54.55	9.8	8.6	10.1	70.0	54.0	3.4	3.5	4.1	3.9	82.83	89.74	5.25	2.5	45.71	5.3	6.8	77.94
374675	13.7	94.89	54.74	10.5	9.2	10.2	66.5	55.0	3.8	3.7	4.0	3.9	95.0	94.87	5.85	2.9	49.57	5.7	6.2	91.94
374817	14.9	87.92	52.35	10.6	9.3	10.5	68.0	47.5	3.75	3.7	3.9	3.9	96.15	94.77	5.85	2.6	49.57	5.8	7.2	80.56
362915	14.2		52.11	10.0	8.6	10.8	70.5	53.0	3.45	3.55	3.8	3.75	90.79	88.37	5.3	2.6	46.06	5.0	6.8	74.63
363620	14.8	88.51	53.38	10.6	9.6	10.9	70.5	60.5	3.9	3.8	4.4	4.3	88.64	88.37	5.4	2.5	46.30	5.4	6.8	79.41
362913	14.3		53.15	10.0	8.6	9.7	69.0	58.0	3.4	3.45	4.05	3.95	83.95	87.34	5.2	2.5	48.08	5.0	6.6	75.75
372910	15.0	84.67	51.53	10.4	9.2	10.4	68.5	55.0	3.25	3.35	4.1	4.0	79.27	83.85	5.35	2.8	52.34	6.0	7.5	80.0



	13.9	88.49	53.96	9.7	8.8	9.6	66.5	61.0	3.55	3.6	3.95	3.8	89.87	94.74	5.25	2.3	43.82	5.1	6.6	77.27
372813	---	---	---	---	---	10.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
366852	---	---	---	---	---	10.3	67.5	53.0	3.4	3.4	4.1	3.9	82.93	87.18	5.3	2.2	41.51	5.5	6.6	83.35
372911	14.2	98.66	56.54	10.2	8.8	10.3	68.5	57.0	3.8	3.85	4.0	3.9	95.0	98.72	5.35	2.3	42.99	5.6	6.7	83.58
374668	13.0	---	63.85	10.1	8.7	9.6	---	---	3.4	3.4	3.85	3.75	88.31	90.67	5.1	2.45	48.04	---	---	---
367237	13.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
374622	13.8	89.13	53.62	10.0	9.2	10.2	70.0	62.0	---	3.45	---	3.85	---	89.61	5.3	2.7	50.94	---	---	---
374612	13.2	96.57	57.58	9.6	8.4	9.6	67.0	56.0	3.6	3.6	---	3.8	92.31	94.74	4.95	2.4	48.48	---	---	---
366660	13.6	---	---	---	9.3	10.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---
374676	14.5	88.97	54.48	9.9	8.8	10.1	65.0	61.0	3.5	3.7	4.1	3.9	85.37	94.87	5.4	2.4	44.44	5.4	6.5	83.08
362916	14.5	---	51.03	10.2	9.2	10.4	68.0	54.0	3.35	3.4	4.2	4.1	79.76	82.93	5.2	2.5	48.08	5.6	7.0	80.0
372891	14.1	---	---	---	9.2	10.0	---	---	3.3	3.3	4.0	4.0	82.50	82.50	4.9	2.5	51.02	---	---	---
374610	13.3	98.98	54.89	---	9.2	10.1	---	---	3.55	3.45	3.95	3.85	89.87	89.61	5.2	2.2	42.31	5.3	6.5	81.54
377714	13.2	97.73	58.53	9.6	8.6	10.0	70.0	60.0	3.8	3.75	3.95	3.8	96.20	98.68	5.1	2.4	47.06	5.5	6.4	83.94
372811	14.3	94.41	56.64	10.4	9.4	10.1	65.0	60.0	3.6	3.6	4.1	3.9	87.80	92.31	5.6	2.6	46.43	5.6	6.8	82.35
363619	14.6	---	62.74	10.2	8.8	10.2	68.0	51.5	3.6	3.6	4.1	4.0	87.80	90.0	5.2	2.5	48.08	5.3	6.4	82.81
362914	14.1	---	55.32	10.6	9.4	10.3	66.5	55.0	3.4	3.45	4.0	3.9	85.0	88.46	5.35	2.2	41.12	5.4	6.6	81.82
366710	13.6	---	58.82	9.4	8.3	9.8	68.0	56.0	3.7	3.8	3.9	3.8	94.87	100.0	5.7	2.7	47.37	5.2	6.3	82.51
367201	14.2	---	50.00	9.2	8.2	9.7	71.5	55.5	3.5	3.55	3.9	3.9	89.74	91.03	5.1	2.0	39.22	5.0	6.2	80.65
374608	14.3	95.80	57.34	10.2	9.2	10.6	70.0	61.5	3.75	3.8	4.0	4.0	93.75	95.0	5.45	2.3	42.21	5.5	6.4	85.94
374674	14.7	92.52	53.06	10.0	8.8	10.4	70.0	53.5	3.8	3.85	4.3	4.1	88.37	93.90	5.5	2.6	47.27	5.2	6.8	76.47
378251	14.7	91.84	57.14	10.5	9.2	10.8	69.0	53.5	3.8	---	4.5	---	84.44	---	5.95	2.65	44.54	5.6	6.7	83.68
Specimens	(50)	(32)	(46)	(43)	(48)	(51)	(43)	(43)	(46)	(43)	(46)	(43)	(46)	(43)	(49)	(49)	(49)	(43)	(43)	(43)
Totals	703.9	---	---	442.5	439.2	531.7	2,946.5	2,438.5	167.05	156.2	187.05	169.85	---	---	264.9	122.5	---	236.9	292.0	---
Averages	14.08	93.41	55.88	10.29	9.15	10.43	68.52	56.71	3.63	3.63	4.07	3.95	89.31	91.96	5.41	2.50	46.24	5.51	6.79	81.13
Minima	13.0	84.67	50.00	9.2	8.2	9.6	64.0	46.0	3.25	3.3	3.8	3.7	79.27	82.50	4.85	2.0	39.22	5.0	6.2	74.63
Maxima	15.0	103.62	64.39	11.7	10.4	11.4	74.5	63.0	4.0	4.0	4.5	4.2	97.37	100.0	6.0	2.9	52.83	6.2	7.5	91.94

<sup>1</sup> See footnote 1, p. 43.<sup>2</sup> Near.<sup>3</sup> Inside



## KODIAK ISLAND: PRE-KONIG, "BLUE" MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
366692	(A. H.) U.S.N.M.	Our Point, Uyak Bay.	50.		18.8	13.2	(High)	70.21						14.0	8.4
366620	do.	do.	Sub-adult.		17.6	12.9		78.30						12.9	7.5
366623	do.	do.	65.		18.0	13.2		78.33						12.5	7.8
372776	do.	do.	18.		18.5	13.6	13.2	78.51	82.24	97.06	15.10				
366697	do.	do.	60.		18.5	13.7	(High)	74.05							
366648	do.	do.	35.		18.0	13.8	13.6	76.67	85.53	98.55	15.13				
366694	do.	do.	50.		19.0	14.6	13.7	76.84	81.55	98.84	15.77			14.4	8.6
366701	do.	do.	Mid-aged		17.5	13.6	14.2	77.71	91.32	104.41	15.10			12.7	7.8
374569	do.	do.	60.		17.9	14.0	13.8	78.21	86.52	98.57	15.23				
377703	do.	do.	35.		17.5	13.8	13.4	78.86	85.62	97.1	14.90			13.5	8.1
374566	do.	do.	60.		18.2	14.4	13.6	79.12	83.44	94.44	15.40				
366717	do.	do.	26.		18.1	14.4	14.0	79.56	86.16	97.22	15.50			12.3	7.6
374578	do.	do.	30.		18.6	14.8	14.6	79.57	87.43	98.65	16.0				
374666	do.	do.	40.		18.2	14.5	13.8	79.67	84.40	95.17	15.50				
377713	do.	do.	60.		17.3	13.8	13.7	79.77	88.10	99.28	14.93			11.9	7.2
366695 (probably small ♂).	do.	do.	35.		16.7	13.4	13.4	80.24	89.03	100.0	14.50			12.1	7.3
374552	do.	do.	25.		17.6	14.2	13.8	80.68	86.79	97.18	15.20			13.1	8.1
366619	do.	do.	19.		17.7	14.5	14.0	81.92	86.96	96.55	15.40			12.6	7.6
374568	do.	do.	65.		17.8	14.6	13.4	82.02	82.72	91.78	15.27				
366616A	do.	do.	Sub-adult.												
366624	do.	do.	30.												
366633	do.	do.	35.												
Specimens					(oblong)	(oblong)	(oblong)	(oblong)							
Totals			(22)		(19)	(19)	(15)	(19)	(15)	(15)	(15)			(11)	(15)
Averages			883		341.5	265.0	206.2	77.60	85.81	97.26	228.93			132.0	116.5
Minima			40.1		18.0	13.9	13.7	70.21	81.55	98.84	15.26			12.9	7.8
Maxima			65.		19.0	14.8	14.6	82.02	91.32	104.41	16.0			14.4	8.6



Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Racial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
366692	13.5	92.59	57.78						3.8		4.0		95.0		5.75	2.45	42.61	6.1	7.1	85.92
366620									3.75	(High)	3.9		96.15		5.15	2.2	42.73			
366623	13.5	92.59	57.78												5.7	2.5	42.86	5.5	7.2	76.89
366697	14.0		51.43	10.6	9.5	10.4	68.5	55.0	3.45		4.1		84.15		4.9	2.6	53.06	5.9	6.9	85.61
366648	14.4	100.0	59.72	10.3	8.9	10.0	63.5	53.0	3.65		4.4		82.96		5.8	2.8	48.28	6.0	6.8	88.24
366694	13.8	92.08	56.52	10.4	9.2	10.5	69.0	54.0	3.55	3.7	4.1	4.1	86.59	94.87	5.5	2.6	47.27	5.6	6.2	90.32
366701	14.2		56.34	10.0	9.0	10.4	70.0	60.5	3.55	3.55	4.0	3.9	88.75	91.02	5.25	2.75	52.38	5.7	6.6	86.86
374569	13.8	97.83	58.70	9.9	9.0	10.7	72.5	63.0	4.2	4.2	4.4	4.3	95.45	97.67	5.3	2.45	46.23	5.5	6.1	90.16
377703	13.7	89.78	55.47	9.8	9.0	10.2	70.5	61.0	3.25	3.3	3.7	3.7	88.84	89.19	5.6	2.4	42.86	5.3	6.7	79.10
374566															5.2	2.7	51.92		6.5	81.54
366717																				
374578																				
374666	13.6	87.60	52.94		8.8	10.0			3.9	4.0	4.1	4.0	95.12	100.0	5.2	2.4	46.15			
377713	13.8	87.68	52.90	9.9	8.9	10.0	69.5	59.5	3.45	3.55	4.0	3.8	86.25	93.42	4.85	2.55	52.58	5.3	6.5	81.54
366695	13.5	97.04	60.0	10.7	9.6	10.4	65.5	59.0	3.5	3.6	4.0	3.9	87.50	92.31	5.3	2.5	47.17	5.9	6.5	92.19
374552	13.3	94.74	57.14	10.5	9.5	10.5	66.0	63.0	3.4	3.3	3.7	3.75	91.85	88.02	5.3	2.15	40.57	5.6	6.5	86.15
366619	13.8		57.97	10.6	9.3	10.2	64.5	55.0	3.25	3.25	3.9	3.8	83.34	85.53	5.3	2.25	42.46	5.6	6.6	84.85
374568																				
366616A	14.5			10.0	9.2															
366624																				
366633																				
Specimens	(13)	(9)	(12)	(11)	(12)	(12)	(10)	(10)	(13)	(10)	(13)	(10)	(13)	(10)	(16)	(16)	(16)	(16)	(16)	(16)
Totals	179.9			112.7	109.9	123.9	679.5	584.0	46.70	36.15	52.3	40.15	89.29	90.04	85.3	40.0	46.89	89.70	105.7	84.86
Averages	13.8	93.27	56.41	10.2	9.15	10.3	67.95	58.40	3.4	3.6	4.0	4.0	89.29	90.04	5.3	2.5	46.89	5.6	6.6	84.86
Minima	13.3	87.50	51.43	9.8	8.8	10.0	63.5	53.0	3.25	3.25	3.7	3.7	82.96	85.53	4.85	2.15	40.57	5.3	6.1	76.39
Maxima	14.5	100.0	60.0	10.7	9.6	10.7	72.5	63.0	4.2	4.2	4.4	4.3	96.15	100.0	5.8	2.8	53.06	6.1	7.2	92.19

1 Allowance made for wear of teeth, where needed.

2 Near.



## KODIAK ISLANDS: PRE-KONIG, "RED" FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella and maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
374652	(A. H.) U.S.N.M.	Our Point, Uyak Bay	35		18.2	12.8	14.0	70.33	90.32	109.37	15.0				7.9
363632	do	do	Mid-aged		17.5	12.6	13.4	72.0	89.04	106.35	14.50				7.5
374658	do	do	Elderly		18.3	13.2		72.13							
369635	do	do	35		17.3	12.5		72.25						11.7	7.0
372830	do	do	25		17.6	12.8	14.0	72.73	92.11	109.37	14.80				7.2
369611 (slightly ♂-like but probably ♀).	do	do	25		18.0	13.1	13.0	72.78	83.60	99.24	14.70			11.7	7.1
369614	do	do	Sub-adult		17.9	13.1		73.18							
369639	do	do	30		17.7	13.0	13.1	73.45	85.34	100.77	14.60			(face badly damaged in life)	
377704	do	do	50		18.0	13.3	13.7	73.89	87.54	103.01	15.0				7.6
372834	do	do	30		17.5	13.0	14.0	74.29	91.80	107.69	14.83				
372827	do	do	60		17.8	13.6	13.7	76.40	87.26	100.74	15.03				
372828	do	do	50		17.9	13.3	13.6	74.30	87.18	102.26	14.93				7.6
374001	do	do	40		18.3	13.6	13.7	74.32	85.90	100.74	15.20			12.6	7.7
374004	do	do	40		17.6	13.1	13.0	74.43	84.70	99.24	14.57			12.4	7.2
372812	do	do	20		17.8	13.3	12.4	74.72	79.75	93.23	14.50			10.8	6.7
369693	do	do	60		17.8	13.4		75.28							
377702	do	do	75		17.4	13.4	12.6	75.28	80.77	94.03	14.00			12.1	8.2
363627	do	do	Sub-adult		17.4	13.1	14.0	75.39	91.80	106.87	14.83			12.0	7.2
374602	do	do	30		17.0	12.8	13.4	75.29	89.93	104.69	14.40				7.4
369651	do	do	Near mid-aged		17.5	13.2		75.43							7.5
366703	do	do	Young adult or near.		18.0	13.6		75.56						11.2	6.8
366709	do	do	50		17.7	13.4	14.3	75.71	91.91	106.72	15.13			12.8	7.7
374602	do	do	Young adult.		17.8	13.5		75.84							
369663	do	do	40		17.4	13.2	13.8	75.86	90.20	104.55	14.80				7.7
377728	do	do	25		17.0	12.9	13.9	75.88	92.08	107.75	14.60			12.4	7.6
374626	do	do	30		17.5	13.3	(High)	76.0						12.4	8.0
374683	do	do	Mid-aged		17.6	13.4	13.5	76.14	87.10	100.75	14.83			13.0	8.0
374687	do	do	30		16.8	12.8	12.8	76.16	86.49	100.0	14.13			11.2	6.9
374686	do	do	Mid-aged		17.3	13.2		76.30							7.7
374651	do	do	Old		18.0	13.8	12.6	76.67	79.25	91.80	14.80				



374656	do	do	26	18.0	13.8	14.0	76.67	88.06	101.46	15.27	11.9	7.2
374667	do	do	Y o u n g adult.	17.6	13.5	12.5	76.70	80.39	92.69	14.53	12.0	7.4
374605	do	do	30	17.8	13.7	12.8	76.97	81.27	93.43	14.77	12.1	7.3
374629	do	do	24	17.2	13.3	12.8	77.32	84.99	96.24	14.43	11.7	7.2
372832	do	do	45	17.7	13.7	13.7	77.40	87.26	100.00	15.03	12.8	7.7
374671	do	do	Elderly	17.8	13.8	12.8	77.53	81.01	92.76	14.80		
374632	do	do	30	16.5	12.8	12.8	77.58	87.37	100.0	14.03	11.8	7.3
363626	do	do	30	17.4	13.5	13.4	77.59	86.73	99.26	14.77	13.0	8.0
372831	do	do	50	18.0	14.0	13.8	77.78	86.26	98.57	15.27	8.1	8.1
377729	do	do	55	17.1	13.3	13.4	77.78	88.16	100.75	14.60	12.0	7.3
374624	do	do	Old	17.6	13.7	13.3	77.84	87.79	97.08	14.87		
363644	do	do	55	17.2	13.4	13.8	77.91	90.20	102.99	14.80	7.2	7.2
366708	do	do	24	17.2	13.4	13.8	77.91	90.20	102.99	14.80	11.9	7.3
374654	do	do	30	17.2	13.4	13.2	77.91	86.27	98.51	14.60	12.0	7.2
377731	do	do	40	17.7	13.8	13.8	77.97	87.62	100.0	15.10	7.9	7.9
366612	do	do	Aged	17.3	13.5	13.0	78.03	84.42	96.30	14.60		
374619	do	do	55	17.3	13.5	13.1	78.03	85.06	97.04	14.63	12.6	7.6
374645	do	do	Elderly	17.8	13.9	13.9	78.09	87.70	100.0	15.20	7.4	7.4
367235	do	do	25	16.9	13.2	14.0	78.11	93.02	106.06	14.70	12.0	
Uyak Bay, Amook Islands.												
374664	do	do	55	17.4	13.6	13.2	78.16	85.16	97.06	14.73		6.9
372838	do	do	50	17.0	13.3	12.6	78.24	82.26	94.74	14.30		
366672	do	do	25	17.5	13.7	13.2	78.29	84.62	96.35	14.80	7.2	7.2
372835	do	do	50	17.1	13.4	13.1	78.36	85.90	97.76	14.53	7.4	7.4
374603	do	do	30	17.1	13.4	14.1	78.36	92.46	105.22	14.87	11.9	7.7
374633	do	do	55	17.1	13.4	13.6	78.36	89.18	101.49	14.70	12.4	7.6
374613	do	do	35	18.1	14.2	13.8	78.45	85.45	97.18	15.37	12.3	7.7
377732	do	do	55	16.8	13.2	13.6	78.57	90.67	103.63	14.53	7.4	7.4
367229	do	do	18	17.3	13.6	12.2	78.61	78.97	89.71	14.37		6.2
374665	do	do	Elderly	16.9	13.3	12.6	78.70	83.44	94.74	14.27	12.4	7.6
374663	do	do	40	17.5	13.8	14.6	78.86	93.29	105.80	15.30	8.0	8.0
367210	do	do	Old	17.2	13.6	12.7	79.07	82.47	93.38	14.50		
374649	do	do	24	16.4	13.0	13.2	79.27	89.80	101.54	14.20	6.6	6.6
374634	do	do	35	16.9	13.4		79.29					
374646	do	do	45	16.9	13.4	13.5	79.29	89.11	100.75	14.00		7.4
374684	do	do	24	17.0	13.5	13.4	79.41	87.87	99.26	14.63	12.4	7.6
366674	do	do	24	17.1	13.6	13.2	79.53	85.99	97.06	14.63	7.1	7.1
372815	do	do	40	17.1	13.6	13.6	79.53	88.60	100.0	14.77	12.3	7.0
374673	do	do	45	16.8	13.7	13.6	79.65	88.02	99.27	14.83	12.1	7.4
366664	do	do	35	16.8	13.4	13.1	79.76	86.75	97.76	14.43	12.8	7.7
366671	do	do	30	17.8	14.2	14.3	79.78	89.57	100.70	15.43	11.9	7.2
363629	do	do	Y o u n g adult.	16.6	12.8	13.0	80.0	90.28	101.56	13.93		
363634	do	do	Aged	17.0	13.6	13.8	80.0	90.20	101.47	14.80	7.3	7.3
366675	do	do	20	17.5	14.0	13.2	80.0	83.81	94.29	14.90	11.1	6.7
367205	do	do	50	17.5	14.0	13.8	80.0	87.62	98.57	15.10	13.2	7.9
374657	do	do	20	17.0	13.6	13.6	80.0	88.89	100.0	14.73	10.9	6.6
366631	do	do	30	17.6	14.1		80.11					
363631	do	do	Mid-aged	16.6	13.3	14.0	80.12	93.64	106.26	14.63	7.0	7.0
372816	do	do	60	17.2	13.8	13.6	80.23	87.74	98.55	14.87	7.9	7.9
374615	do	do	50	17.2	13.8		80.23				12.3	7.1



## KODIAK ISLANDS: PRE-KONIG, "RED" FEMALES—Continued

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (gabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Height (a)	Alveol. Pt.-Nasion Height (b)
366649	do	do	22		17.8	14.3	13.0	80.94	81.0	90.91	15.03			11.6	7.2
374620	do	do	20		16.1	13.0	12.8	80.75	87.97	98.46	13.97				6.8
363613	do	do	Mid-aged		17.3	14.0	13.3	80.92	84.98	95.0	14.87			12.2	7.4
366603	do	do	24		16.3	13.2	13.8	80.98	93.56	104.55	14.43			11.2	6.8
366610	do	do	19		16.5	13.4	12.3	81.21	82.28	91.79	14.07			11.9	7.5
363044	do	do	30		17.2	14.0	13.6	81.40	87.18	97.14	14.93				7.8
366604	do	do	35		16.6	13.2	13.3	81.48	89.26	100.76	14.37				8.1
374635	do	do	Elderly		17.2	14.0	13.4	81.40	85.90	95.71	14.87				7.3
374661	do	do	30		16.7	13.6	13.3	81.44	87.79	97.79	14.53			12.1	7.0
377730	do	do	50		16.9	14.2	13.4	81.61	84.81	94.87	15.0			12.6	7.6
374670	do	do	Elderly		16.9	13.8	14.0	81.66	91.20	101.45	14.90			12.0	7.0
372814	do	do	25		16.5	13.5	13.2	81.82	88.0	97.78	14.40				7.1
363630	do	do	24		16.6	13.6	13.2	81.93	89.40	99.26	14.47			11.9	7.1
366682	do	do	35		16.8	13.8	13.2	82.14	86.27	96.65	14.60				6.8
377734	do	do	40		17.5	14.4	14.3	82.29	89.66	99.31	15.40			12.1	7.0
374617	do	do	25		17.0	14.0	13.4	82.35	86.45	95.71	14.80				7.8
363614	do	do	Elderly		17.0	14.0	13.7	82.35	88.39	97.86	14.90				
374653	do	do	Old	(Asymmetry)	17.0	14.0	13.4	82.35	86.45	95.71	14.80			11.8	7.1
374648	do	do	55		17.4	14.1	12.4	82.46	78.73	87.94	14.63				7.5
366602	do	do	55		16.7	13.8	13.0	82.63	85.05	94.20	14.50				
374611	do	do	55		16.8	13.9	13.0	82.74							
374659	do	do	30		16.8	13.9	13.4	82.74	87.50	96.40	14.70				7.7
377735	do	do	50		16.8	13.9	13.6	82.74	88.60	97.84	14.77				7.1
377737	do	do	30		16.8	13.9	13.7	82.84	88.67	97.86	14.87				6.9
374681	do	do	20		16.9	14.0	13.8	82.94	88.75	97.87	14.97			11.7	7.2
366707	do	do	24		17.0	14.1	13.8	83.03	88.74	97.81	14.53				7.5
366673	do	do	35		16.5	13.7	13.4	83.03	88.74	97.81	14.53			11.8	7.1
374655	do	do	40		17.8	14.8	13.2	83.15	80.98	89.19	15.27				7.9
367207	do	do	45		16.8	14.1	14.2	83.93	91.91	100.71	15.03				
363628	do	do	Aged	Badly crushed.	(long and narrow)										
363645	do	do	40		(oblong)										7.6
Specimens			(110)		(108)	(108)	(95)	(108)	(95)	(95)	(95)			(51)	(91)
Totals			4395		1,865.6	1,461.7	1,273.4				1,399.51			615.7	669.9
Averages			40		17.27	13.53	13.40	78.35	87.06	98.90	14.73			12.07	7.36
Minima			18		16.00	12.5	12.2	70.53	78.73	87.84	13.93			10.8	6.2
Maxima			75		18.3	14.8	14.6	83.93	93.64	109.37	15.43			13.2	8.2



Catalog No.	Diam. Bizygomatic	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth maxim.	Nasal Index	Upper Alveolar Arch— Length maxim.	Upper Alveolar Arch— Breadth maxim.	Upper Alveolar Arch— Index
374652	12.3		60.98			10.8				3.8		4.0		95.0	5.6	2.3	41.07			
363632						10.7				3.55		3.65		97.26						
374658																				
366635									3.25	3.35	3.7	3.6	87.84	93.06	4.8	2.35	48.96	5.1	5.8	87.93
372830	12.5		67.60	9.8	9.0	10.1	72.0	65.0	3.3	3.4	3.8	3.8	86.84	89.47	5.1	2.3	45.10	5.2	6.1	82.25
366611	13.0	90.0	54.62						3.25		3.8		85.63		5.0	2.4	48.0	5.5	6.7	82.09
366614																				
366639																				
377704						11.0														
372834	14.0	90.71	54.29	10.7	9.8	11.2	74.0	60.0	3.65		3.95		92.41		5.45	2.5	45.87	5.6	6.3	88.89
372827	12.9					10.4														
372828	12.1	62.81		10.1	8.9	10.3	73.0	60.0	3.45		3.7	3.7	93.24	94.69	5.1	2.2	43.14	5.3	6.7	79.10
374601	13.0	96.92	69.23	10.0	8.8	10.1	68.5	56.0	3.4	3.35	3.9	3.9	87.18	85.90	5.2	2.3	44.23	5.6	6.4	87.50
374604	12.8	96.88	56.25	10.0	8.9	10.0	69.5	53.5	3.55	3.45	3.9	3.8	91.03	90.79	5.15	2.3	44.67	5.2	5.9	88.14
372812	12.5	86.40	53.60	9.8	8.8	9.5	67.5	54.5	3.4	3.4	3.7	3.8	91.89	89.47	4.75	2.1	44.22	5.2	6.0	86.67
366663																				
377702	13.6		60.29	9.8	9.0	10.2	69.0	64.5	3.55	3.65	4.3	4.2	82.66	86.90	5.5	2.8	60.91	5.5	6.7	82.09
363627	12.9	93.80	55.81	10.5	9.4	10.4	69.0	54.5	3.5	3.55	3.7	3.6	94.69	93.61	5.1	2.2	43.14	5.6	6.7	83.58
374602	13.2	90.91	56.06	9.9	8.7	9.8	67.5	54.5	3.5	3.65	3.95	3.8	88.61	96.95	4.95	2.4	48.49	5.4	6.6	81.82
366651									3.55		3.8		93.42		5.2	2.1	40.38			
366703									3.7	3.6	3.5	3.6	105.71	100.0	5.0	2.2	44.0	5.1	6.1	83.61
366709	12.8	100.0	60.16	10.4	9.2	10.5	69.0	55.5	3.5	3.5	3.9	3.8	89.74	92.11	5.25	2.5	47.62	5.3	6.7	79.10
374662																				
366668	13.0		59.23	9.9	8.8	10.0	68.5	57.5	3.4	3.35	3.7	3.6	91.89	93.05	5.2	2.55	45.04	5.5	6.6	83.33
377728	12.3	100.81	61.79	10.2	8.8	10.1	67.5	52.5	3.45	3.55	3.8	3.7	90.79	95.95	4.95	2.45	49.49	5.5	6.7	82.09
374626	12.8	96.88	62.50						3.35	3.5	4.0	3.85	83.75	90.91	5.4	2.3	42.59	5.5	6.0	91.67
374683	13.3	97.74	60.15	10.8	9.4	10.0	62.5	53.5	3.5	3.55	3.9	3.8	89.74	93.42	5.15	2.55	49.51	5.9	7.1	83.10
374687	12.3	91.06	56.10	10.2	9.0	9.8	66.5	54.5	3.35	3.4	3.8	3.7	88.16	91.89	4.45	2.25	50.66	5.6	6.1	91.80
374686									3.7		4.0		92.60		5.4	2.5	46.80	5.1	6.3	80.95
374651	13.4		54.96	9.7	8.6	10.0			3.65	3.75	3.8	4.0	96.05	93.75						
374656	13.1	90.84	57.81	10.0	8.8	10.4	74.0	55.0		3.8		4.0		96.0	5.05	2.4	47.63	4.9	6.5	75.93
374667	12.8	93.75				9.8	66.0	51.0		3.75		3.5		107.14		2.3	43.40	5.3	6.4	82.81
374605	13.2	91.67	55.80	10.4	9.2	10.0	66.0	55.0	3.15	3.3	3.9	3.9	80.77	84.92	4.75	2.35	49.47	5.6	6.7	83.63
374629	13.1	89.31	54.96	9.4	8.8	10.2	74.5	65.0	3.7	3.7	4.0	4.0	92.60	92.60	5.35	2.45	45.79	5.0	6.3	79.87
372832	12.9	99.22	59.69	9.5	8.5	9.9	70.0	60.0	3.55	3.5	3.7	3.7	95.95	94.59	4.95	2.4	48.49	5.3	6.5	81.54







[illegible]

<sup>1</sup> Allowance made for wear of teeth, where needed.  
<sup>2</sup> Near.



## KODIAK ISLANDS: PRE-KONIAG, "RED" OR "BLUE" FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. anteroposterior maximum. (glabella ad maximum)	Diam. lateral maximum.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
377707 (somewhat ♂-like, but a strong ♀)	U.S.N.M.	Our Point, Uyak Bay	30		17.7	13.5	13.4	76.27	85.90	99.96	14.87			12.1	7.3
374660	do	do	Young adult		18.1	14.0		77.55							

Catalog No.	Diam. Bizygomatic maximum, (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth maximum.	Nasal Index	Upper Alveolar Arch—Length maximum.	Upper Alveolar Arch—Breadth maximum.	Upper Alveolar Arch—Index
377707	13.6	88.97	53.63	10.5	9.2	10.2	67.5	52.5	3.5	3.6	4.1	4.0	85.37	90.0	4.9	2.5	51.02	5.7	6.5	87.69
376640																				

: Allowance made for wear of teeth, where needed.

: Near.



## KODIAK ISLAND: PRE-KONIAG, "BLUE" FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maximum (glabella ad)	Diam. lateral maximum.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlička's method)	Teeth, wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
366636	U.S.N.M.	Our Point, Uyak Bay	45		17.9	12.8		71.51	85.55	100.75	14.93			12.0	7.3
374560	do	do	60		18.1	13.3	13.4	73.48		100.75	14.93				
377747	do	do	70		18.0	13.4	13.8	74.44		102.99	15.07				8.0
366666	do	do	Sub-adult		18.1	13.7	13.4	75.69	84.28	97.81	15.07				7.0
366696	do	do	Near mid-aged		16.6	12.6	11.9	75.90	81.51	94.44	13.70			12.1	7.6
374553	do	do	30		17.3	13.2	13.8	76.80	90.50	104.55	14.77			12.2	7.8
374555	do	do	25		17.3	13.2	12.2	76.80	80.0	92.42	14.23			11.5	6.8
363610	do	do	35		17.7	13.6	13.2	76.84	84.55	97.06	14.83			11.2	7.1
366626	do	do	Mid-aged		17.7	13.6	13.6	76.84	86.90	100.00	14.97				
374557	do	do	65		18.3	14.1		77.05							7.7
374567	do	do	60		16.8	13.0	13.5	77.98	90.60	103.85	14.43				7.0
372780	do	do	35		17.1	13.3	12.8	77.78	84.21	96.24	14.40				6.5
374660	do	do	Young adult		18.0	14.0		77.78							
372781	do	do	20		17.8	13.9	13.9	78.09	87.70	100.00	15.20				7.0
374664	do	do	Elderly		17.4	13.6	13.2	78.16	86.16	97.06	14.73				
366693	do	do	Mid-aged		18.0	14.1	13.6	78.53	84.74	96.45	15.23				7.2
366702	do	do	Somewhat aged		17.7	13.9	13.1	78.53	82.91	94.24	14.90				7.5
366606	do	do	25		17.1	13.5	13.2	78.95	86.27	97.78	14.60			12.6	7.8
366625	do	do	23		16.4	13.0		79.27							6.8
377727	do	do	30		16.8	13.4	13.2	79.76	87.42	98.51	14.47				7.2
374566	do	do	60		16.9	13.5	13.2	79.88	86.84	97.78	14.53			12.3	7.6
372779	do	do	55		17.2	13.8	13.9	80.23	89.68	100.72	14.97				7.9
372778	do	do	60		16.6	13.4	13.0	80.72	86.67	97.01	14.33			11.9	6.9
366637	do	do	23		17.8	14.4	13.2	80.90	81.99	91.67	15.13			12.5	7.5
374551	do	do	Elderly		16.8	14.2		84.52						12.0	7.0
372881	do	do	35											11.8	7.3
374575	do	do	Near adult												
Specimens			(27)		(25)	(25)	(20)	(25)	(20)	(20)	(20)			(11)	(23)
Totals			1126		435.4	338.5	265.1	77.74	85.74	98.04	294.49			132.10	168.5
Averages			41.7		17.42	13.54	13.26	77.74	85.74	98.04	14.72			12.01	7.32
Minima			20		16.4	12.6	11.9	71.51	80.0	91.67	13.70			11.2	6.5
Maxima			70		18.3	14.4	13.9	84.52	90.60	104.55	15.23			12.6	8.0



## KODIAK ISLAND: PRE-KONIG, "BLUE" FEMALES—Continued

Catalog No.	Diam. Bitygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
366636	13.3	90.23	54.89	10.1	8.9	10.2	69.5	53.0	3.9	3.65	4.3	4.1	90.70	89.02	5.1	2.7	52.94	5.3	6.4	82.81
374560						11.0														
377747						9.9														
366666						10.3	63.5	52.0		3.8	3.7	3.9		102.7	5.0	2.45	49.0	5.4	6.4	84.38
366606	12.8	94.53	59.88	9.9	8.7	9.4				3.5				89.74	5.3	2.0	57.74	5.4	6.2	81.10
374553	12.6	96.83	61.90			9.6	67.5	52.5	3.3	3.3	3.6	3.5	91.67	94.29	4.9	2.5	51.02	5.2	6.2	83.87
374555	12.7	90.55	53.54	9.8	8.8	10.0	72.0	57.0	3.6	3.7	4.05	3.9	88.90	94.87	5.0	2.4	48.0	5.0	6.0	83.33
363610	13.1	85.50	54.20	9.6	8.6	11.0														
366626																				
374557	12.7		60.63												5.45	2.4	44.04			
374567	13.1		53.44		8.6	9.8			3.3	3.4	3.9	3.8	84.62	89.47	4.65	2.4	51.63	5.0	6.2	80.65
372780	12.8		50.78	10.5	9.2	9.6	64.0	45.0	3.3		3.8		86.84		4.6	2.6	56.52	5.5	6.8	80.88
374680																				
372781	11.8		59.32			10.0			3.5	3.5	3.9	3.8	89.74	92.11	4.8	2.15	42.71	5.1	6.3	80.95
374684	13.0				8.9	10.0			3.7	3.65	4.0	3.9	92.50	94.74	5.1	2.4	47.06	5.4	6.3	85.71
366693																				
366702	13.5		55.56		9.0	10.0				3.55		3.9		91.02	5.1	2.4	47.06	5.3	6.7	76.81
366606	13.1	96.18	59.54	10.1	8.7	10.0	66.5	49.5	3.4	3.4	3.8	3.8	89.47	89.47	5.4	2.5	46.30	5.7	7.0	81.43
366625									3.3	3.6	3.6		91.67		4.95	2.1	42.43			
377727	12.4		58.06	10.2	9.0	10.0	67.5	48.5	3.6		4.0		90.0		5.3	2.4	45.38			
374566	13.4	91.79	56.72								3.9		89.74		5.2	2.2	42.31			
372779	12.5		63.20	9.8	8.8	10.3	70.5	59.5	3.5	3.7	3.9	3.8	97.44	97.37	5.35	2.55	47.66	5.2	5.8	89.66
372778	12.5	92.50	55.20	9.1	8.2	9.3	69.5	58.5	3.8	3.4	3.9	3.9	88.46	87.18	4.8	2.5	52.03	5.2	6.5	80.0
366637	13.0	96.15	57.69	10.1	8.8	9.6	64.5	51.0	3.45	3.4	3.9	3.9			5.15	2.1	40.78	5.2	6.1	85.25
374551	13.3	90.23	52.63												5.0	2.5	50.0	5.0	6.6	75.76
372881			59.40						3.75		3.95				5.3	2.3	43.40			
374575				9.4	8.5	9.8	71.0	58.5		3.4		3.7	94.94	91.89	5.25	2.3	43.82	5.3	6.6	80.30
Specimens.	(19)	(10)	(18)	(11)	(14)	(20)	(11)	(11)	(14)	(14)	(14)	(14)	(14)	(14)	(23)	(23)	(23)	(16)	(16)	(16)
Totals.	244.9			108.6	122.7	199.9	746.0	585.0	49.4	49.55	54.6	53.5			117.4	54.85		84.20	102.3	
Averages.	12.89	92.68	57.96	9.87	8.76	10.0	67.82	53.18	3.53	3.54	3.90	3.82	90.48	92.62	5.10	2.38	46.72	5.26	6.39	82.31
Minima.	11.8	85.60	52.63	9.1	8.2	9.3	63.5	45.0	3.3	3.3	3.6	3.5	84.62	87.18	4.6	2.0	37.74	5.0	5.8	75.76
Maxima.	13.5	96.83	63.20	10.5	9.2	11.0	72.0	59.5	3.9	3.8	4.3	4.1	97.44	102.7	5.45	2.8	56.62	5.7	7.0	89.66

\* Allowance made for wear of teeth, where needed.



## ALEUTS: MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maximum (glabella ad maximum)	Diam. lateral maximum	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlička's method)	Teeth, wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
242924	U.S.N.M.	Černovski	Adult	---	18.4	14.7	13.0	79.9	78.6	---	15.37	1,580.0	---	12.9	7.9
342848	do	Unalaska	do	---	18.3	14.7	13.0	80.3	78.8	---	15.33	1,475.0	---	---	7.4
242863	do	Adak Island	do	---	18.0	14.5	12.4	80.6	76.8	---	14.97	---	---	---	7.3
365731	do	Veseli Island	40	---	18.2	14.7	13.4	80.8	81.5	---	15.43	---	---	---	7.8
378300	do	Černovski	60	---	18.2	14.7	12.9	80.8	78.4	---	15.27	---	---	13.5	8.0
378305	do	do	65	---	18.6	15.1	12.6	81.2	74.8	---	15.43	---	---	---	7.9
7764	Moscow Mus.	Umnak	55	---	18.2	14.8	13.2	81.3	80.0	---	15.40	---	---	---	7.3
365727	U.S.N.M.	Veseli Island	60	---	18.2	14.8	12.6	81.3	76.4	---	15.20	---	---	---	---
378461	do	Shiprock near Umnak	28	---	18.9	15.4	13.0	81.5	75.8	---	15.77	1,470.0	---	12.3	7.5
242930	do	Černovski	Adult	---	17.8	14.5	12.6	81.5	78.0	---	14.97	1,360.0	---	---	7.5
7785	Moscow Mus.	Umnak	do	---	18.4	15.0	13.8	81.5	82.6	---	15.73	---	---	---	---
7795	do	do	55	---	18.4	15.0	12.6	81.5	75.5	---	15.33	---	---	13.0	7.7
7788	do	do	35	---	17.9	14.6	12.7	81.6	78.2	---	15.07	---	---	12.6	7.5
374827	do	do	35	---	17.4	14.2	12.7	81.6	80.4	---	14.77	---	---	---	7.6
378273	U.S.N.M.	Kanaga	45	---	17.4	14.2	12.5	81.6	79.1	---	14.70	---	---	---	7.0
7821	do	Kashaga	50	---	18.0	14.7	13.0	81.7	79.5	---	15.23	---	---	---	---
225266	Moscow Mus.	Umnak	do	---	17.6	14.4	12.7	81.8	79.4	---	14.90	1,420.0	---	11.6	6.6
378464	U.S.N.M.	Unalaska	Adult	---	17.6	14.4	11.8	81.8	73.8	---	14.60	---	---	12.0	7.0
378611	do	Shiprock	25	---	18.3	15.0	13.4	82.0	80.5	---	15.57	1,505.0	---	12.5	7.7
242880	do	Umnak	50	---	18.3	15.0	13.4	82.0	80.5	---	15.57	---	---	---	7.7
7791	do	Černovski	Adult	---	18.4	15.1	13.3	82.1	79.4	---	15.60	1,630.0	---	---	8.4
7783	Moscow Mus.	Umnak	45	---	18.0	14.8	12.8	82.2	78.1	---	15.20	---	---	---	7.2
242868	do	do	55	---	18.0	14.8	13.4	82.2	81.7	---	15.40	---	---	---	7.2
378349	U.S.N.M.	Amchitka	Adult	---	18.6	15.3	12.2	82.3	72.4	---	15.37	1,440.0	---	12.7	7.6
242940	do	Ilak	25	---	18.2	15.0	11.8	82.4	71.1	---	15.0	---	---	---	7.4
352436	do	Černovski	Adult	---	18.9	15.6	12.8	82.5	74.2	---	15.77	1,700.0	---	---	7.8
378270	do	Umnak	40	---	17.7	14.6	12.7	82.5	78.64	---	15.00	---	---	---	7.4
242882	do	Kashaga	35	---	17.8	14.7	---	82.6	---	---	---	---	---	12.4	7.5
378486	do	Černovski	Adult	---	18.4	15.2	12.9	82.6	76.8	---	15.50	1,510.0	---	---	7.5
378486	do	Shiprock	35	---	18.5	15.3	12.4	82.7	73.4	---	15.40	---	---	---	---



## ALEUTS: MALES—Continued

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) 1	Alveol. Pt.-Nasion Height (b)
7808	Moscow Mus.	Umnak	70	---	17.4	14.4	12.0	82.8	75.5	---	14.60	---	---	12.2	7.5
7818	do	do	60	---	18.0	14.9	12.8	82.8	77.8	---	15.23	---	---	12.2	6.9
378703	U. S. N. M.	Shiprock	50	---	18.0	14.9	12.8	82.8	77.8	---	15.23	---	---	12.6	7.3
7810	Moscow Mus.	Umnak	55	---	17.5	14.5	12.1	82.9	75.6	---	14.70	---	---	12.3	7.2
365730	U. S. N. M.	Veseli Island	24	---	18.1	15.0	13.0	82.9	78.6	---	15.37	---	---	---	7.4
378303	do	Černovski	55	---	18.1	15.0	12.9	82.9	78.0	---	15.33	---	---	---	8.0
322-1	Leningrad Mus.	Secondarily from Commander Islands.	Adult	---	18.1	15.0	12.8	82.9	77.3	---	15.30	---	---	12.4	7.2
5215	do	do	do	---	17.8	14.8	13.5	82.8	82.8	---	15.37	---	---	---	7.8
242869	U. S. N. M.	Atka	do	---	18.0	15.0	13.2	82.8	80.0	---	15.40	1,660.0	---	12.8	6.5
7771	Moscow Mus.	Umnak	55	---	17.6	14.7	11.8	83.5	73.1	---	14.70	---	---	12.4	7.4
352246	U. S. N. M.	do	50	---	17.7	14.8	12.8	83.6	78.8	---	15.10	---	---	12.2	7.4
7793	Moscow Mus.	do	60	---	18.4	15.4	13.5	83.7	79.9	---	15.77	---	---	---	---
242909	do	Atka	Adult	---	18.4	15.4	13.5	83.7	79.9	---	15.77	1,680.0	---	11.3	6.7
378481	do	Shiprock	60	---	17.8	14.9	13.2	83.7	80.7	---	15.30	---	---	13.3	7.4
378462	do	do	55	---	19.3	16.2	11.9	83.9	67.0	---	15.80	1,580.0	---	---	7.9
378304	do	Černovski	45	---	18.1	15.2	13.6	84.0	81.7	---	15.63	---	---	---	7.4
378476	do	Shiprock	60	---	17.6	14.8	12.8	84.1	79.0	---	15.07	---	---	13.0	7.5
17479	do	Four Mountains Islands.	Adult	---	18.2	15.3	13.0	84.1	77.6	---	15.50	1,710.0	---	12.6	7.6
378717	do	Černovski	55	---	18.4	15.5	12.0	84.2	70.8	---	15.30	---	---	12.4	7.4
242922	do	do	Adult	---	18.2	15.4	12.8	84.6	76.2	---	15.47	1,620.0	---	11.5	7.2
242871	do	Unga	do	---	18.2	15.4	12.3	84.6	73.2	---	15.30	1,550.0	---	11.6	6.8
242910	do	do	do	---	18.2	15.4	12.6	84.6	75.0	---	15.40	1,510.0	---	---	7.5
242900	do	Four Mountains Islands.	35	---	18.6	15.8	12.2	84.9	70.93	---	15.53	---	---	---	7.7
7798	Moscow Mus.	Umnak	55	---	18.0	15.3	13.2	85.0	79.3	---	15.50	---	---	13.2	7.5
378368 (some-what ♀-like).	U. S. N. M.	Agatu	35	---	18.0	15.3	12.2	85.0	73.3	---	15.17	---	---	13.0	7.6
7817	Moscow Mus.	Umnak	55	---	17.4	14.8	13.6	85.1	84.5	---	15.27	---	---	---	6.8
242872	U. S. N. M.	Atka	Adult	---	18.1	15.4	13.0	85.1	85.1	---	15.13	---	---	12.0	7.2
5215	Leningrad Mus.	Secondarily from Commander Islands.	do	---	17.5	14.9	13.0	85.1	80.8	---	15.13	---	---	---	7.0







## ALEUTS: MALES—Continued

Catalog No.	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxim.	Upper Alveolar Arch— Breadth maxim.	Upper Alveolar Arch— Index
242924	14.6	88.4	54.1	11.3	9.9	10.7	64.5	48.5	3.4	3.4	3.9	3.9	87.2	87.2	5.6	2.3	41.1	6.0	6.8	88.2
342848	14.7		50.8	11.0	9.9	10.7	67.5	54.5	3.35	3.4	3.8	3.8	88.2	89.5	5.3	2.7	50.9	5.5	6.8	80.9
242863	14.2		51.4	10.0	9.2	10.0	68.0	58.5	3.8	3.8	4.2	4.2	90.5	90.5	5.5	2.5	45.5	5.5	6.8	80.9
365731	14.3		54.6	10.7	9.4	10.4	66.0	51.5	3.45	3.45	4.2	4.1	82.1	84.1	5.45	2.35	43.1	5.6	6.4	87.5
378200	14.0	96.4	57.1	11.1	9.6	10.4	63.5	49.0	3.4	3.3	3.95	4.0	86.1	82.5	5.5	2.6	43.9	5.9	6.8	86.8
378305	15.2		52.0	10.6	9.4	10.6	68.0	54.0	3.65	3.75	4.1	4.1	89.0	91.5	5.55	2.65	47.8	5.5	6.6	83.5
7664	13.5		54.1	10.2	8.8	9.6	64.0	52.0	3.5	3.45	3.8	3.7	92.1	93.2	5.2	2.4	51.1	5.8	6.4	90.6
365727	14.5					10.2														
378461	15.2	80.9	49.8	11.3	10.2	10.4	63.5	58.0	3.5	3.5	4.0	3.9	87.5	89.7	5.2	2.35	45.2	6.3	6.6	95.4
242930	14.9		50.3	11.4	10.0	10.1	61.0	48.5	3.4	3.5	4.1	4.1	85.4	86.4	5.0	2.6	52.0	5.9	6.7	88.1
7785						10.4														
7795	14.3	90.9	53.9	9.9	8.4	9.0	60.0	52.0	3.55	3.55	4.2	4.0	84.5	88.8	4.8	2.3	47.9	5.8	6.6	87.9
7788	13.9		55.4	11.6	10.2	10.6	63.0	49.0	3.4	3.45	3.8	3.9	89.5	88.5	5.4	2.45	45.4	5.7	6.7	85.1
37827	14.0	90.0	53.6	10.3	8.8	9.8	65.0	48.0	3.3	3.4	3.8	3.7	86.8	91.9	5.1	2.4	47.1	6.0	7.0	86.7
378273	14.1		53.9	10.4	9.2	10.1	66.0	55.5	3.4	3.4	3.85	3.9	88.3	87.2	5.1	2.55	50.0	5.4	6.2	87.1
7821	14.4		48.6	10.2	9.6	10.0	68.5	(67)	3.5	3.45	3.95	3.95	88.6	87.3	5.0	2.4	48.0	5.3	6.6	80.5
225266	13.9	83.4	47.5	9.8	8.7	9.8	61.0	48.5	3.4	3.4	3.9	3.8	87.2	89.5	4.8	2.4	50.0	5.0	6.2	80.6
378464	13.4	89.6	52.2	11.0	9.4	9.5	59.0	41.5	3.05	3.05	3.9	3.8	76.9	80.3	4.8	2.7	56.2	5.6	6.5	86.2
378611	15.0	83.5	51.3	10.4	9.5	10.3	67.5	60.0	3.65	3.7	4.3	4.2	84.9	88.1	5.5	2.4	43.6	5.2	6.7	77.6
242880	14.5		57.9	11.1	9.2	10.6	63.5	41.5	3.7	3.8	4.1	4.1	90.2	92.7	5.8	2.5	49.1	6.4	6.9	92.8
7791				10.2	9.2	9.4	62.5	59.0	3.4	3.35	3.9	3.8	87.2	88.2	4.8	2.6	54.2	5.7	6.8	83.8
7783				10.7	9.6	10.0	64.5	58.0		3.45		4.0		86.3	4.65	2.7	58.1	5.7	6.9	82.6
242868	14.5	87.6	52.4	10.5	8.6	9.2	62.0	51.0	3.3	3.5	4.1	3.9	80.5	89.7	5.4	2.45	45.4	5.6	6.8	82.4
378349	14.4		51.4	10.8	9.2	10.0	65.0	51.0	3.4	3.35	4.15	4.1	81.9	81.7	5.05	2.5	49.5	5.9	6.5	90.8
242940	15.2		51.3	10.4	9.2	10.1	65.0	50.0	3.9	4.0	4.1	4.2	95.1	95.2	5.8	2.8	48.3			
352936	14.8		50.0	10.4	9.0	9.8	64.0	49.0	3.45	3.45	4.1	4.0	85.37	86.25	5.0	2.55	51.0	5.5	6.4	85.9
378270	13.9	89.2	54.0	10.4	9.0	9.8	64.0	49.0	3.4	3.4	3.9	3.8	87.2	89.5	5.15	2.7	52.4	5.8	6.1	95.1
242882	14.8		50.7				68.0	52.5	3.5	3.5	4.0	4.0	87.5	87.5	5.5	2.5	45.5	5.5	6.7	82.1
378486				10.8	9.7	10.6														
7808	14.6		51.4	9.9	8.8	9.8	67.5	54.5	3.95	4.05	4.3	4.1	91.9	97.8	5.4	2.4	44.4			
7818	14.8	82.4	46.6	10.8	9.4	10.0	64.5	49.5	3.6	3.65	4.15	4.0	86.8	91.3	4.6	3.05	(66.3)	5.9	7.0	84.3
378703	14.3	88.1	51.1	10.8	9.6	10.0	63.5	53.0	3.6	3.6	4.0	3.8	90.0	94.7	5.0	2.65	53.0	5.6	6.4	87.5
7810		89.8	52.6	10.2	8.8	9.6	69.5	44.5	3.5	3.5	4.2	4.2	83.3		5.25	2.5	47.6	5.8	6.3	92.1
365730	14.2		52.1	10.2	9.3	10.4	70.5	56.5		3.9		4.2		92.9	5.6	2.7	48.2	5.2	6.7	77.6
378303	15.0		53.9		9.2	10.2			4.0	3.95	4.1	4.1	97.6	96.3	5.6	2.55	45.5			



	13.9	89.2	51.8	9.9	8.6	9.2	62.5	50.0	3.4	3.4	4.0	3.9	85.0	87.2	5.0	2.6	52.0	5.3	7.2	73.6
322-1	13.9	89.2	51.8	9.9	8.6	9.2	62.5	50.0	3.4	3.4	4.0	3.9	85.0	87.2	5.0	2.6	52.0	5.3	7.2	73.6
5215	14.2	90.1	54.9	10.1	8.9	9.8	64.5	55.5	3.6	3.6	4.0	3.9	90.0	92.3	5.25	2.6	49.5	5.5	6.6	83.5
242869	14.3	86.7	46.5	10.5	9.6	9.8	65.5	54.0	3.5	3.5	3.9	3.9	89.7	92.6	4.8	2.7	56.2	5.4	6.8	79.4
7771	14.3	86.7	51.8	10.3	8.9	9.4	61.5	51.0	3.65	3.7	4.1	4.0	85.4	87.5	5.0	2.7	55.1	5.6	6.5	86.2
352246	14.8	82.4	50.0	10.4	9.0	9.8	64.0	49.0	3.5	3.5	4.1	4.0	85.4	87.5	5.0	2.6	52.0	5.5	6.4	85.9
7793	14.7	79.6	47.2	9.8	8.6	9.8	65.0	49.0	3.75	3.7	3.9	3.9	86.1	89.9	5.5	2.45	44.6	5.7	6.6	86.4
242909	14.2	79.6	47.2	10.3	9.2	9.8	65.0	49.0	3.4	3.4	3.8	3.8	89.5	89.5	5.0	2.75	55.0	5.3	6.4	82.8
378481	14.1	92.4	52.5	10.6	9.6	10.4	68.0	58.0	3.75	3.85	3.9	3.8	96.2	101.8	5.1	2.5	49.0	5.3	6.4	82.8
378462	14.4	92.4	54.9	11.3	9.3	10.0	59.5	41.0	3.6	3.75	4.4	4.2	81.8	89.3	5.2	2.6	48.1	5.8	6.7	92.5
378304	13.8	91.6	53.6	11.1	9.8	10.0	61.5	54.0	3.35	3.4	3.9	3.9	85.9	87.2	4.8	2.6	54.2	5.6	7.0	80.0
378476	14.2	91.6	52.8	9.7	8.4	9.4	63.5	50.5	3.65	3.65	4.2	4.0	86.9	91.2	5.15	2.35	45.6	5.6	6.6	80.3
17479	15.3	82.4	49.7	10.2	8.8	9.5	63.5	48.5	4.0	4.0	4.3	4.1	93.0	97.6	5.3	2.5	47.2	5.4	6.3	85.7
378717	14.2	87.3	52.1	10.0	8.9	9.5	64.0	56.0	3.4	3.7	4.1	4.0	82.9	92.5	5.0	2.45	49.0	5.4	6.6	84.8
242922	14.8	77.7	48.6	10.6	9.4	9.9	64.0	50.0	3.6	3.6	4.0	3.8	90.0	94.7	5.2	2.6	50.0	5.6	6.6	80.6
342871	14.6	79.5	46.6	10.0	8.8	9.6	66.5	44.0	3.6	3.7	4.2	4.2	85.7	88.1	5.2	2.6	50.0	5.4	6.7	80.6
242910	14.9	50.3	50.3	10.0	8.6	10.2	69.5	47.0	3.9	4.0	4.2	4.0	92.9	100.0	5.4	2.4	44.4	5.5	6.7	82.1
242900	14.7	52.4	52.4	10.1	8.8	9.4	62.0	52.5	3.55	3.65	4.1	4.0	86.6	91.3	5.2	2.35	45.2	5.7	6.8	83.3
7798	14.5	91.0	51.7	10.7	9.4	10.4	67.0	52.0	3.75	3.75	4.1	4.0	91.5	93.7	5.2	2.25	43.8	5.5	6.4	89.1
378368	14.6	89.0	52.1	10.2	9.4	9.6	63.0	55.5	3.65	3.65	3.95	3.9	92.4	93.6	4.9	2.4	49.0	5.5	6.5	84.6
7817	13.3	51.1	51.1	9.7	8.5	9.6	69.0	50.0	3.3	3.25	3.9	3.9	84.6	89.7	4.8	2.5	52.1	5.2	6.3	82.5
242872	14.4	50.0	50.0	11.1	9.8	10.2	64.0	50.0	3.5	3.5	3.9	3.9	89.7	89.7	5.3	2.9	54.7	5.8	6.9	84.1
5215	14.4	82.3	48.6	10.7	9.6	10.3	64.0	55.0	3.3	3.5	3.8	3.75	92.1	93.3	4.85	2.65	54.6	5.7	6.6	86.4
242915	14.8	80.4	50.7	10.7	9.6	10.3	66.0	55.0	3.3	3.4	3.9	4.0	84.6	85.0	5.3	2.8	52.8	5.6	6.3	88.9
7825	14.5	93.8	54.5	10.8	9.4	10.2	64.0	52.5	3.7	3.7	4.2	4.1	88.1	90.2	5.25	2.65	50.5	5.8	6.4	99.6
365728	15.1	51.7	51.7	10.5	9.3	10.5	68.0	56.0	3.5	3.6	4.1	4.0	85.4	90.0	5.2	2.5	48.1	5.4	7.0	77.1
17485	14.6	52.1	52.1	10.3	8.9	9.7	63.5	47.0	3.9	3.6	4.2	4.1	92.9	87.8	5.4	2.2	40.7	5.3	6.4	82.8
378480	13.5	80.8	52.6	9.9	8.9	9.5	60.5	53.0	3.85	3.8	4.1	4.0	93.9	95.0	5.2	2.55	49.0	5.3	6.4	82.8
5215	14.7	83.7	47.6	10.6	9.2	9.8	64.0	48.5	3.45	3.5	4.1	3.8	84.2	92.1	4.7	2.6	55.3	5.9	7.1	83.1
378693	14.8	91.2	53.4	9.8	8.9	9.7	65.5	62.0	3.4	3.25	3.7	3.7	91.9	87.8	5.2	2.4	46.2	5.8	6.9	84.1
378694	13.5	92.6	55.6	10.7	9.2	9.7	61.5	50.5	3.6	3.5	3.95	3.95	91.1	88.6	4.8	2.55	53.1	5.2	6.3	82.5
378708	14.3	49.7	49.7	9.6	8.6	10.2	73.5	57.0	3.4	3.5	3.7	3.7	91.9	84.8	5.0	2.5	50.0	5.2	6.3	82.5
242937	14.0	84.8	52.1	10.1	8.6	9.7	65.5	47.0	3.3	3.35	4.05	3.95	81.5	84.8	5.65	2.95	52.2	5.4	6.4	84.4
5215	14.8	50.7	50.7	10.4	9.2	9.6	62.5	53.5	3.4	3.5	4.1	3.9	82.9	89.7	5.0	2.55	51.0	5.6	6.5	86.2
378679	14.4	82.2	50.6	10.6	8.5	9.8	62.5	48.5	3.5	3.6	4.15	3.8	89.7	94.7	4.9	2.6	50.5	5.6	6.5	86.2
7762	14.4	82.2	50.6	10.6	9.2	9.8	62.0	48.5	3.7	3.7	4.2	4.2	88.1	88.1	5.4	2.5	46.5	6.0	7.5	80.0
242912	15.2	82.2	50.6	10.6	9.2	9.8	62.0	48.5	3.7	3.7	4.2	4.2	88.1	88.1	5.4	2.5	46.5	6.0	7.5	80.0
Specimens	(66)	(36)	(63)	(63)	(67)	(67)	(62)	(62)	(67)	(66)	(67)	(66)	(67)	(66)	(69)	(69)	(69)	(61)	(61)	(61)
Totals	951.6	86.46	51.62	657.6	615.0	667.4	4,012.5	3,214.0	237.35	235.65	269.85	261.5	87.98	90.11	353.3	175.35	342.6	404.4	404.4	342.6
Averages	14.42	77.7	45.5	10.44	9.18	9.96	64.72	51.84	3.54	3.57	4.03	3.96	76.9	80.2	5.16	2.54	49.21	5.62	6.63	84.72
Minima	13.30	77.7	45.5	9.6	8.4	9.0	59.0	41.0	3.0	3.05	3.7	3.7	76.9	80.2	4.6	2.2	40.7	5.0	6.1	73.6
Maxima	15.30	96.4	57.9	11.6	10.2	10.8	73.5	62.0	4.0	4.05	4.4	4.2	97.6	101.8	5.8	3.05	58.1	6.4	7.5	95.4

\*Near. \*In one isolated case=66.3.



ALEUTS: MALES  
(Kagamil Caves)

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
377910	(A.H.) U.S.N.M.	Kagamil Island	45	---	18.1	14.4	12.9	79.6	79.4	---	15.13	1,415.0	---	12.7	7.7
377901	do	do	45	---	18.2	14.6	13.4	80.2	81.7	---	15.40	1,545.0	---	12.8	7.7
377815	do	do	55	---	18.6	15.0	12.3	80.6	73.2	---	15.30	1,480.0	---	---	---
377900	do	do	30	---	18.6	15.0	12.5	80.6	74.4	---	15.37	---	---	12.8	7.7
377852	do	do	28	---	17.7	14.3	13.2	80.8	82.5	---	15.07	1,417.0	---	12.1	7.4
377835	do	do	50	---	18.0	14.6	12.8	81.1	78.5	---	15.13	1,440.0	---	---	---
377845	do	do	40	---	18.7	15.2	13.3	81.3	78.5	---	15.73	1,780.0	---	---	7.7
377856	do	do	40	---	17.9	14.6	13.0	81.6	80.0	---	15.17	---	---	---	---
377853	do	do	35	---	17.6	14.4	12.6	81.8	78.8	---	14.87	1,425.0	---	---	7.8
377858	do	do	23	---	18.2	14.9	12.6	81.9	76.1	---	15.23	---	---	---	7.7
377917	do	do	55	---	18.2	14.9	13.7	81.9	82.8	---	15.60	1,530.0	---	13.0	8.0
377847	do	do	55	---	18.3	15.0	13.4	82.0	80.5	---	15.57	1,680.0	---	---	---
377916	do	do	65	---	18.0	14.8	13.2	82.2	80.5	---	15.33	1,565.0	---	13.0	7.7
377906	do	do	55	---	18.5	15.2	13.3	82.2	78.9	---	15.67	1,530.0	---	13.2	8.3
377851	do	do	24	---	17.6	14.5	12.8	82.4	79.7	---	14.97	1,480.0	---	12.4	7.6
378401	do	do	55	---	18.2	15.0	12.2	82.4	73.5	---	15.13	---	---	13.4	8.2
377841	do	do	35	---	18.4	15.2	12.4	82.6	73.8	---	15.33	1,500.0	---	---	7.75
377850	do	do	70	---	17.4	14.4	12.7	82.8	79.9	---	14.83	1,380.0	---	13.0	7.5
377810	do	do	65	---	17.8	14.8	13.4	83.1	82.2	---	15.33	1,380.0	---	---	---
377409	do	do	40	---	18.3	15.2	12.8	83.1	76.4	---	15.43	---	---	12.8	8.1
377817	do	do	24	---	18.5	15.4	13.5	83.2	79.7	---	15.80	---	---	---	---
377876	do	do	50	---	18.0	15.0	13.8	83.3	83.6	---	15.60	1,560.0	---	---	7.4
377839	do	do	50	---	18.2	15.2	13.6	83.5	81.4	---	15.67	---	---	---	7.5
377843	do	do	35	---	18.2	15.2	13.1	83.5	78.4	---	15.50	1,650.0	---	---	---
377846	do	do	30	---	18.2	15.2	13.0	83.5	77.8	---	15.47	1,520.0	---	---	7.55
377859	do	do	60	---	18.3	15.3	12.8	83.6	76.2	---	15.47	---	---	---	---
377834	do	do	26	---	17.8	14.9	13.7	83.7	83.8	---	15.47	1,600.0	---	12.3	7.5
377807	do	do	50	---	18.1	15.2	13.1	84.0	78.7	---	15.47	1,580.0	---	---	8.0
377816	do	do	45	---	17.6	14.8	13.0	84.1	80.3	---	15.13	1,500.0	---	13.6	8.3



378410	do	55	18.5	15.6	13.4	84.8	78.6	15.83	1,470.0	13.1	8.2
377903	do	40	18.0	15.2	11.9	84.4	71.7	15.03	1,470.0	13.0	7.9
377857	do	40	18.0	15.2	12.3	84.4	74.1	15.17	1,470.0	13.0	7.6
377909	do	28	18.2	15.4	13.9	84.6	82.7	15.83	1,605.0	12.9	7.9
377838	do	65	17.9	15.2	12.7	84.9	76.7	15.27	1,380.0	12.9	7.3
377919	do	23	18.3	15.6	12.8	85.2	75.5	15.57	1,600.0	12.0	7.6
377848	do	40	17.8	15.3	13.7	86.0	82.8	15.50	1,720.0	13.0	7.75
377833	do	50	18.4	15.9	12.2	86.4	71.1	15.50	1,500.0	12.7	7.9
377842	do	26	17.1	14.8	12.7	86.6	79.6	14.87	1,525.0	12.7	7.3
377812	do	55	18.0	15.6	14.2	86.7	84.5	15.93	1,630.0	12.7	7.7
377837	do	45	18.4	16.0	13.1	87.0	76.2	15.83	1,555.0	12.7	7.4
377849	do	28	16.8	14.7	12.6	87.5	80.0	14.70	1,455.0	13.0	8.0
377854	do	55	17.6	15.4	12.0	87.5	72.7	15.00	1,405.0	13.0	8.0
Specimens		(42)									
Totals		1,830	(42)	632.1	545.6	(42)	(42)	(42)	(32)	(21)	(37)
Averages		43.6	758.2	15.05	12.99	83.97	78.49	645.3	48,802.0	269.9	285.65
Minima		23	16.8	14.3	11.9	79.6	71.1	15.36	1,525.1	12.85	7.72
Maxima		70	18.7	16.0	14.2	87.5	84.5	14.70	1,380.0	12.0	7.3
								15.93	1,780.0	13.6	8.3



ALEUTS: MALES—Continued  
(Kagamil Caves)—Continued

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. mm.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
377910	14.2	89.4	54.2	10.5	9.0	10.0	65.0	50.0	3.35	3.45	3.9	3.8	85.9	90.8	5.1	2.65	52.0	5.4	6.3	85.7
377901	14.5	88.3	53.1	11.0	9.0	10.6	66.5	40.0	3.7	3.75	4.3	4.2	86.1	89.3	5.1	2.6	51.0	5.8	6.7	89.6
377915	14.5		51.7	10.2	8.8	10.3	69.0	56.5	3.65	3.75	4.0	4.1	91.3	91.5	4.9	2.45	50.0	5.3	6.5	81.5
377900	14.3	89.5	63.8	10.4	9.4	10.4	67.5	59.0	3.5	3.55	3.9		89.7		5.4	2.3	42.6	5.6	6.6	84.8
377852	13.9	87.1	53.2	10.1	8.8	9.6	64.5	51.5	3.6	3.7	3.8	3.8	92.1	93.4	5.05	2.2	43.6	5.6	6.6	84.8
377835	14.4		50.7	10.7	9.5	10.3	66.5	52.5	3.6	3.7	4.1	4.0	87.8	92.5	5.0	2.5	50.0	5.8	6.6	87.9
377845	14.1		54.6	10.3	9.0	10.0	65.5	53.0	3.45	3.6	4.0	3.9	86.3	92.3	5.2	2.45	47.1	5.5	7.1	77.5
377856	14.0					9.7														
377853	14.2		54.9	10.2	9.0	9.9	65.0	55.5	3.9	3.9	4.35	4.35	89.7	89.7	5.25	2.6	49.5	5.6	6.9	81.2
377858	13.3		57.9						3.65		3.7		84.2		5.2	2.3	44.2	5.6	6.6	84.8
377917	14.6	89.0	54.8	11.5	10.4	11.0	66.0	57.5	3.45	3.45	4.1	4.1	84.2	84.2	5.6	2.7	48.2	5.5	6.7	82.1
377916	14.7		51.7	10.9	9.6	10.0	62.0	55.0	3.45	3.45	4.25	4.1	81.2	84.1	4.9	2.55	52.0	5.9	6.7	88.1
377906	14.6	88.4	52.4	9.8	8.8	10.0	68.5	55.0	3.6	3.65	3.8	3.9	94.7	93.6	5.7	2.6	43.0	5.2	7.0	73.2
377851	13.2	93.9	57.6	10.1	10.2	10.5	59.5	49.0	3.5	3.65	4.1	4.1	85.4	89.0	5.4	2.6	48.2	6.4	6.1	91.4
378401	13.7	93.7	57.3	10.0	8.7	9.2	59.5	53.0	3.85	3.9	4.2	4.1	92.9	96.3	5.0	2.3	46.0	5.5	6.1	90.2
377841	13.7		56.6	10.5	9.4	10.2	66.0	56.5	3.6	3.65	4.05	4.3	83.7	97.5	5.5	2.7	49.1	5.7	6.5	87.7
377850	14.4			10.6	9.2	10.2			3.6	3.65	4.2	4.15	83.7	103.8	5.35	2.65	49.5	5.65	6.3	89.7
377810	14.9	87.3	50.3	10.7	9.4	10.5	68.0	51.0	3.6	3.6	4.2	4.1	83.7	84.9	5.2	2.75	52.9	5.7	6.2	91.9
377409	15.2		49.3	10.9	9.4	10.0	62.5	49.0	3.65	3.7	4.1	4.1	89.0	89.0	5.3	2.45	46.2	5.7	6.5	87.7
377817	14.8	86.5	54.7	11.5	10.2	10.9	65.0	54.0	4.1	3.85	4.1	4.1	100.0	93.9	5.5	2.4	43.6	6.2	6.1	91.8
377876			48.7	10.0	8.7	10.0	68.5	51.5	4.1	3.5	4.2	4.1	84.5	85.4	5.1	2.3	45.1	5.4	6.3	85.7
377839	15.4		52.1	11.5	10.4	10.8	65.5	57.5	3.55	3.5	3.75	3.7	93.3	96.0	5.2	2.7	52.9	6.0	6.7	82.6
377843	14.5			10.7	9.3	9.9	67.0	50.0	3.5	3.55	4.0	4.0	91.2		5.2	2.45	47.1	5.6	6.3	88.9
377846																				
377859	14.4		52.1	10.9	9.6	10.1	65.5	53.0	3.65	3.65	4.0	4.3	82.4	75.6	5.4	2.6	48.2	5.8	5.8	94.8
377834	14.4	85.4			8.8	10.5	60.0	36.0	3.5	3.25	4.25	4.0	88.5	89.5	5.05	2.5	49.5	5.8	6.7	86.6
377807	14.2		56.3	11.1	8.5	9.9	66.0	58.0	3.45	3.4	3.9	3.8	95.5	98.8	5.35	2.35	43.1	5.4	6.3	85.7
377816	14.1	96.4	58.9	9.6	8.5	9.6	64.0	53.0	4.2	4.1	4.4	4.15	91.5	93.9	5.45	2.35	43.1	5.4	6.9	87.0
378410	15.1		54.3	11.1	9.7	10.5	64.0	52.5	3.75	3.85	4.1	3.95	92.6	93.2	5.7	2.55	44.7	6.0	6.7	94.0
377903	14.6	89.7	54.1	11.3	8.5	9.9	59.0		3.75	3.8	4.05	4.0	87.2	92.2	5.35	2.6	46.7	6.3	6.8	82.4
377857	14.4	90.3	52.8	10.7	9.4	10.2	65.0	50.5	3.75	3.7	4.3	4.0	87.2	92.5	5.35	2.6	48.6	5.6	6.8	82.4
377909	14.7	89.1	53.7	10.2	9.0	10.0	65.5	55.0	3.8	3.85	4.1	4.0	92.7	96.2	5.4	2.25	41.7	5.6	6.1	91.8



[illegible]



## ALEUTS: FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) 1	Alveol. Pt.-Nasion Height (b)
374827	U.S.N.M.	Kanaga	40	---	17.4	14.1	12.6	81.0	80.0	---	14.70	---	---	11.4	7.5
50226	Leningrad Mus.	Atka	Adult	---	17.5	14.2	12.6	81.1	79.5	---	14.77	---	---	---	7.0
378719	U.S.N.M.	Kanaga	27	---	17.0	13.8	12.6	81.2	81.8	---	14.47	---	---	---	6.9
7782	Moscow Mus.	Umnak	60	---	17.6	14.3	---	81.2	---	---	---	---	---	---	7.3
378695	U.S.N.M.	Amchitka	20	---	17.6	14.3	12.9	81.2	80.9	---	14.93	---	---	11.4	6.8
378271	do	Kashaga	40	---	17.7	14.4	12.8	81.4	79.8	---	14.97	---	---	---	7.6
279205	do	Hog Island	Adult	---	17.2	14.0	11.8	81.4	75.6	---	14.33	1,400.0	---	12.2	7.5
378380	do	Agatu	18	---	17.3	14.1	12.2	81.5	77.7	---	14.53	---	---	11.2	6.7
378369	do	do	24	---	16.8	13.7	12.2	81.6	80.0	---	14.23	---	---	11.1	7.0
242866	do	Unga	Adult	---	17.4	14.2	11.9	81.6	75.3	---	14.50	1,300.0	---	11.3	7.1
242939	do	Černovski	do	---	17.4	14.2	11.9	81.6	75.3	---	14.50	1,380.0	---	---	6.7
7779	Moscow Mus.	Umnak	70	---	18.0	14.7	12.8	81.7	78.3	---	15.17	---	---	---	---
242874	U.S.N.M.	Atka	Adult	---	17.6	14.4	12.3	81.8	76.9	---	14.77	1,300.0	---	---	7.0
7767	Moscow Mus.	Umnak	50	---	17.0	13.9	11.8	81.8	76.4	---	14.23	---	---	---	6.7
50223	Leningrad Mus.	Atka	Adult	---	17.2	14.1	11.9	82.0	76.0	---	14.40	---	---	11.3	7.1
378301	U.S.N.M.	Černovski	65	---	17.3	14.2	12.8	82.1	81.3	---	14.77	---	---	---	---
242914	do	do	Adult	---	17.4	14.3	12.0	82.2	75.7	---	14.57	1,330.0	---	11.1	6.8
225266	do	Amoknak	55	---	17.4	14.3	12.6	82.2	79.5	---	14.77	---	---	---	6.7
378374	do	Agatu	50	---	18.0	14.8	13.2	82.2	80.5	---	15.33	1,375.0	---	12.3	7.2
7814	Moscow Mus.	Umnak	40	---	17.6	14.5	12.3	82.4	76.6	---	14.80	---	---	---	7.1
50255	Leningrad Mus.	Unalaska	Adult	---	17.1	14.1	12.2	82.5	78.2	---	14.47	---	---	---	7.1
378331	U.S.N.M.	Amia	70	---	17.2	14.2	13.0	82.6	82.8	---	14.80	---	---	---	6.9
378351	do	Ilak	50	---	17.2	14.2	12.6	82.6	80.2	---	14.67	---	---	---	7.2
50254	Leningrad Mus.	Unalaska	Adult	---	17.8	14.7	12.0	82.6	73.7	---	14.83	---	---	---	7.0
242853	U.S.N.M.	Amoknak	do	---	17.4	14.4	12.2	82.8	76.7	---	14.67	1,330.0	---	11.4	7.3
50251	Leningrad Mus.	Unalaska	do	---	17.4	14.4	11.4	82.8	71.7	---	14.40	---	---	---	7.2
374826	U.S.N.M.	Kanaga	20	---	17.5	14.5	12.2	82.9	76.3	---	14.73	---	---	11.9	---
242944	do	Černovski	Adult	---	17.0	14.1	11.5	82.9	74.0	---	14.20	1,250.0	---	---	---
377754	do	Amoknak	30	---	17.6	14.6	12.4	83.0	77.0	---	14.87	---	---	11.6	7.0
378248	do	Ilak	60	---	17.6	14.6	12.7	83.0	78.9	---	14.97	---	---	---	7.2
378350	do	do	40	---	17.6	14.6	13.0	83.0	80.7	---	15.07	---	---	---	6.9
378653	do	Umnak	40	---	17.6	14.6	12.1	83.0	75.2	---	14.77	---	---	---	7.3
7836	Moscow Mus.	do	60	---	17.1	14.2	12.0	83.0	76.7	---	14.43	---	---	---	6.4
378299	U.S.N.M.	Černovski	40	---	17.2	14.3	12.4	83.1	78.7	---	14.63	---	---	11.7	6.8
378275	do	Kashaga	60	---	18.0	15.0	12.2	83.3	73.9	---	15.07	---	---	---	---







## ALEUTS: FEMALES—Continued

Catalog No.	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
374827	14.0	87.0	58.6	10.3	8.8	9.7	63.0	45.5	3.3	3.35	3.9	3.85	84.6	88.2	5.1	2.4	47.1	6.0	6.9	86.95
50226	13.1	87.0	58.4	9.2	8.0	9.6	71.0	50.0	3.3	3.55	3.55	3.85	93.5	92.2	5.0	2.5	52.1	5.0	6.2	80.7
378719	12.7	89.8	54.3	10.0	8.9	9.6	66.0	53.0	3.3	3.35	3.75	3.65	88.0	91.8	4.8	2.45	62.1	5.3	6.3	86.7
7782	13.5	89.8	54.1	9.3	8.7	9.4	69.5	65.0	3.55	3.55	3.8	3.6	93.4	98.6	4.9	2.45	60.0	5.2	6.3	82.5
378605	12.7	89.8	54.1	9.3	8.7	9.4	69.5	65.0	3.55	3.55	3.8	3.6	93.4	98.6	4.9	2.45	60.0	5.2	6.3	82.5
378271	13.2	87.6	57.6	9.8	8.6	9.8	67.0	55.5	3.3	3.4	3.85	3.75	85.7	90.7	4.9	2.2	44.9	5.3	6.1	86.9
279205	12.5	87.6	60.0	9.2	8.1	8.9	63.0	56.0	3.4	3.5	3.9	3.8	87.2	92.1	5.1	2.15	42.2	5.2	5.7	91.23
378380	13.2	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
378360	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
378360	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5	3.7	3.8	4.1	4.0	82.5	89.5	5.05	2.6	48.9	5.6	6.3	81.3
242866	13.4	84.9	50.8	10.1	8.6	9.6	69.5	51.5												



378277	13.4	50.8	10.6	9.2	9.7	67.5	52.0	3.3	3.45	3.9	3.8	84.6	90.8	5.0	2.5	50.0	5.1	6.6	77.3	
7835	13.5	61.9	8.8	9.1		61.5	46.5	3.5		3.9		89.7	90.8	4.9	2.3	46.9	4.9	6.5	75.4	
7794		78.6		8.1				3.6	3.6	3.9	3.8	92.31	94.7	4.8	2.4	51.0	5.6	6.2	90.3	
242918	13.1		10.1	8.6	9.2	61.0	49.0	3.45	3.55	4.1	3.9	84.2	91.0	4.7	2.1	44.7	4.5	5.8	91.8	
378302	13.2	90.2		9.7	9.8	69.0	58.5	3.45	3.55	3.9	3.9	88.5	88.5	5.1	2.5	49.0	5.1	6.0	85.0	
377756	13.4	88.8		9.7	9.4	67.0	51.5	3.45	3.55	3.9	3.9	88.5	91.0	4.7	2.3	48.9	5.1	6.1	83.6	
378306	13.2		9.7	8.6	9.4	69.5	55.0	3.4	3.4	3.8	3.8	89.5	89.5	4.6	2.4	52.2	5.0	5.8	86.2	
242901	12.9	61.2	9.2	8.2	9.3	64.0	58.5	3.6	3.55	3.7	3.6	97.5	98.6	4.6	2.3	50.0	5.1	5.8	87.9	
378483	13.0	54.6	10.0	9.0	9.4			3.35		3.8		88.2		5.4	2.6	48.2				
378332	13.8		9.6	8.4	9.4	66.0	51.0	3.8	3.9	4.0	4.0	95.0	97.5	5.0	2.45	49.0	5.5	6.3	87.3	
242879	13.4	53.7			10.2									5.9			5.9	6.3	88.1	
378696	13.4													5.5			5.5	6.3	87.3	
279204	13.1	66.5	10.4	9.0	9.8	64.0	45.0	3.75	3.75	4.1	4.0	91.5	93.8	5.4	2.35	43.5	4.8	5.9	81.4	
279206	13.1	48.1	9.4	8.5	9.3	69.5	47.5	3.5	3.6	3.8	3.8	92.1	94.7	5.0	2.7	54.0	5.2	5.7	91.2	
378376	13.5		10.0	9.2	9.8	68.5	60.0	3.2	3.2	3.8	3.8	84.2	84.2	4.7	2.3	48.9	5.2	6.4	87.5	
378371	13.5		10.6	9.2	9.8	63.0	49.0	3.55	3.6	4.0	3.9	88.8	92.3	5.0	2.5	50.0	5.6	6.4	87.5	
7781	13.7		10.1	9.0	9.3	61.5	53.5	3.55	3.55	3.8	3.9	93.4	91.0	5.15	2.4	46.6	5.2	6.4	81.3	
377752	13.4	37.752		9.2	8.6	74.0	64.5	3.4	3.35	3.8	3.9	89.5	92.1	4.9	2.6	53.1				
378723	13.3	50.4	9.2	8.8	9.4	61.5	45.0	3.4	3.5	3.8	3.8	89.5	92.1	5.1	2.45	48.0	5.5	6.3	87.3	
242886	13.4	54.5	10.3	8.8	9.4			3.9	3.9	4.0	3.9	97.5	100.0	5.3	2.3	43.4				
242920	13.5		9.8	8.6	9.4															
378309	13.4	85.1	9.6	8.4	9.0	63.0	50.0							4.9	2.5	51.0	5.1	6.5	78.5	
279206	13.4	52.2		9.6	8.4	63.0	50.0							4.8	2.7	56.2	5.5	6.8	80.9	
378718	13.1	89.3	10.1	8.9	9.6	65.5	50.5	3.2	3.3	3.8	3.7	84.2	89.2	4.7	2.5	53.3	5.3	6.0	88.9	
378370	13.4	89.6		9.8	8.5	59.0	47.5	3.3	3.25	3.8	3.8	86.8	85.5	4.7	2.5	53.3	5.0	6.2	80.7	
7827	12.5		9.3	8.3	8.8	65.5	48.0	3.6	3.5	3.8	3.75	94.7	93.3	4.65	2.5	53.8	5.4	5.9	91.5	
242877	13.3	58.6	10.1	8.8	9.2	60.0	51.5	3.6	3.7	3.8	3.8	94.7	97.4	5.3	2.2	41.5	5.4			
378705														5.2	2.3	44.2				
378373	13.3	52.6	9.8	8.6	9.2	64.0	53.0	3.2	3.3	3.9	3.8	82.1	86.8	4.6	2.6	56.5				
378249	13.1	65.0	9.1	8.0	9.2	67.5	55.0	3.5	3.5	3.95	3.85	88.6	90.9	4.9	2.65	54.1	5.1	6.3	81.0	
5022-4	13.2	48.5	9.1	8.0	9.4	72.0	51.0	3.4	3.35	3.85	3.8	88.3	88.2	4.6	2.5	54.3	4.9	6.0	81.7	
378247	14.2	86.6		9.8	8.8	70.0	58.0	3.6	3.65	3.9	3.9	92.3	92.6	5.0	2.7	54.6	5.4	6.3	85.7	
7799	13.5		9.9	8.6	9.2	64.5	44.0	3.5	3.5	3.9	3.8	89.7	92.1	4.75	2.4	50.5	5.1	6.1	83.6	
378606	13.4	48.2	10.7	9.3	9.9	64.0	45.0	3.55	3.55	3.8	3.8	93.4	93.4	5.0	2.4	48.0	5.3	6.0	88.3	
279203		52.2	9.1	7.8	9.0	64.0	54.0							5.0	2.2	44.0	5.2	6.1	85.2	
Specimens		(24)	(54)	(58)	(62)	(66)	(54)	(55)	(57)	(55)	(57)	(64)	(65)	(64)	(56)	(56)	(56)			
Totals	842.8			569.1	535.4	625.6	3,553.5	2,814.5	191.6	201.65	213.55	219.8	319.55	155.0	294.1	348.1	348.1			
Averages	13.38	87.54		9.81	8.64	9.48	65.81	52.12	3.48	3.54	3.88	3.86	89.72	91.74	4.92	2.42	49.28	5.25	6.22	81.49
Minima	12.2	78.6		8.8	7.7	8.7	59.0	44.0	3.2	3.2	3.6	3.55	82.5	82.5	4.5	2.05	41.0	4.5	5.7	73.9
Maxima	14.6	97.6		10.7	9.6	10.3	74.0	65.0	3.9	3.9	4.2	4.1	97.5	102.8	5.4	2.75	56.5	6.0	6.9	91.9



ALEUTS: FEMALES  
(Kagamil Caves)

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
377905	(A. H.) U. S. N. M.	Kagamil	45	---	18.4	14.6	12.2	79.4	73.9	---	15.07	1,360.0	---	12.3	7.3
377873	do	do	24	---	18.0	14.4	12.5	80.0	77.2	---	14.97	1,460.0	---	---	7.3
377861	do	do	50	---	17.6	14.1	12.2	80.1	77.0	---	14.63	1,360.0	---	---	7.3
377867	do	do	25	---	16.7	13.4	12.6	80.2	83.7	---	14.23	1,275.0	---	---	7.3
377923	do	do	20	---	17.2	13.9	12.6	80.8	81.0	---	14.57	1,275.0	---	---	7.35
377819	do	do	70	---	18.6	15.1	13.3	81.2	78.9	---	15.67	1,390.0	---	11.7	7.0
377814	do	do	55	---	17.7	14.4	13.1	81.4	81.6	---	15.07	1,385.0	---	11.8	7.2
377911	do	do	50	---	17.9	14.6	12.6	81.6	77.5	---	15.03	1,330.0	---	12.5	7.5
378419	do	do	25	---	17.1	14.0	12.0	81.9	77.2	---	14.37	1,370.0	---	---	7.3
377871	do	do	25	---	17.1	14.0	12.0	81.9	77.2	---	14.37	1,370.0	---	---	7.3
377836	do	do	40	---	17.7	14.5	12.4	81.9	77.0	---	14.87	1,425.0	---	---	6.4
377908	do	do	45	---	17.7	14.5	12.3	81.9	76.4	---	14.83	1,300.0	---	12.2	7.2
378730	do	do	30	---	17.8	14.6	12.0	82.0	74.1	---	14.80	1,420.0	---	---	7.8
378403	do	do	35	---	17.2	14.2	12.4	82.6	79.0	---	14.60	---	---	12.0	7.6
378422	do	do	60	---	17.4	14.4	11.8	82.8	74.2	---	14.53	---	---	---	---
377863	do	do	20	---	17.4	14.4	12.6	82.8	79.3	---	14.80	1,595.0	---	10.8	6.5
377808	do	do	50	---	17.6	14.6	12.2	83.0	75.8	---	14.80	1,335.0	---	12.6	7.7
377904	do	do	55	---	17.6	14.6	12.8	83.0	79.5	---	15.0	1,430.0	---	11.6	6.9
378413	do	do	45	---	17.6	14.6	13.3	83.0	82.6	---	15.17	---	---	---	---
377874	do	do	23	---	17.0	14.2	12.4	83.5	79.5	---	14.53	1,420.0	---	---	7.0
378415	do	do	55	---	16.5	13.8	12.2	83.6	80.5	---	14.17	---	---	---	6.4
377896	do	do	60	---	17.4	14.6	13.0	83.9	81.2	---	15.0	---	---	---	---
377920	do	do	55	---	17.6	14.8	12.0	84.1	74.1	---	14.80	---	---	12.5	7.4
377872	do	do	40	---	17.6	14.8	11.9	84.1	73.5	---	14.77	1,370.0	---	12.2	7.4
377818	do	do	75	---	17.7	14.9	11.9	84.2	73.0	---	14.83	1,300.0	---	---	---
378416	do	do	50	---	17.1	14.4	12.6	84.2	80.0	---	14.70	---	---	12.7	7.8
377870	do	do	55	---	17.8	15.0	12.8	84.3	78.1	---	15.20	1,445.0	---	---	7.1
378411	do	do	50	---	17.3	14.6	11.8	84.4	74.0	---	15.20	---	---	---	7.2
377926	do	do	70	---	18.1	15.3	12.2	84.5	73.1	---	15.20	---	---	---	7.1
378423	do	do	75	---	17.0	14.4	12.4	84.7	79.0	---	14.60	---	---	---	---



378414	do	do	28	17.7	15.0	11.8	84.7	72.2	14.83	1,375.0			7.2
377865	do	do	21	17.0	14.4	12.5	84.7	79.6	14.63				6.5
378399	do	do	65	16.5	14.0	11.6	84.8	76.1	14.03		11.8		7.0
377924	do	do	24	16.9	14.4	12.2	86.2	78.0	14.50	1,300.0	11.2		7.0
378402	do	do	70	17.2	14.7	13.4	85.5	84.0	15.10				
377869	do	do	35	17.3	14.8	12.3	85.6	76.6	14.80	1,415.0			7.5
377914	do	do	50	17.4	14.9	12.6	85.6	78.0	14.97	1,350.0	12.0		7.2
377875	do	do	25	16.9	14.5	11.9	85.8	75.8	14.43				7.5
378417	do	do	23	16.4	14.2	11.4	86.6	74.5	14.0				6.9
378412	do	do	30	17.3	15.0	11.6	86.7	71.8	14.63				7.2
377879	do	do	30	16.8	14.6	12.2	86.9	77.7	14.53	1,330.0	11.5		7.0
377811	do	do	30	17.8	15.5	12.5	87.1	75.1	15.27	1,440.0	11.1		6.8
378427	do	do	19	17.0	15.1	11.8	88.8	73.5	14.63		10.8		6.2
378421	do	do	75	16.6	14.8	12.0	89.2	76.4	14.47				
377875	do	do	23	16.6	14.8	11.4	89.2	72.6	14.27				
Specimens			(45)				(45)	(45)	(45)	(25)	(18)	(36)	
Totals			1,925	780.8	654.4	553.3	83.81		662.84	34,365.0	213.3	257.05	
Averages			42.8	17.35	14.54	12.30	83.81		14.73	1,374.6	11.85	7.14	
Minima			19	16.4	13.4	11.4	79.4	71.8	14.00	1,275.0	10.8	6.2	
Maxima			75	18.6	15.5	13.4	89.2	84.0	15.67	1,505.0	12.7	7.8	



ALEUTS: FEMALES—Continued  
(Kagamil Caves)—Continued

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. in.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
377905	14.0	87.9	52.1	10.2	8.8	9.4	62.0	51.0	3.75	3.8	4.1	4.1	91.5	92.7	4.8	2.7	56.2	5.3	6.0	88.3
377873	13.8	—	52.9	9.1	8.1	9.3	68.0	58.0	3.85	3.8	3.9	4.0	93.7	95.0	4.95	2.4	48.5	5.0	6.7	74.6
377861	13.0	—	56.1	9.8	8.6	9.6	66.5	51.5	3.5	3.55	3.9	3.9	89.7	91.0	5.15	2.6	50.5	5.3	6.4	82.8
377897	12.6	—	57.9	8.9	8.0	9.6	72.0	58.5	3.85	3.75	4.0	3.75	96.2	96.1	5.1	2.1	41.2	4.8	5.9	81.4
377923	12.8	—	57.4	8.9	8.0	9.0	66.5	59.0	3.6	3.7	3.85	3.7	93.5	100.0	5.1	2.25	44.1	5.1	5.9	86.4
377819	14.0	89.6	50.0	10.7	9.9	10.3	67.5	62.5	3.3	3.3	4.0	4.0	82.5	82.5	4.8	2.7	56.2	5.3	6.5	81.5
377814	13.2	89.4	54.5	10.3	9.0	9.9	67.0	51.0	3.6	3.7	4.2	4.0	85.7	92.5	4.95	2.55	51.5	5.5	6.5	84.6
377911	13.4	93.3	56.0	9.9	8.6	9.2	62.0	54.0	3.6	3.55	3.95	3.8	91.1	93.4	4.95	2.35	47.5	5.5	6.2	88.7
378419	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
377871	13.2	—	55.3	10.6	9.1	9.9	64.0	49.0	3.4	3.4	3.95	3.95	86.1	88.1	4.8	2.5	52.1	5.6	6.5	86.2
377836	13.9	—	46.0	10.3	9.2	9.7	66.0	48.0	3.7	3.75	4.15	4.0	89.2	93.7	4.65	2.5	53.8	5.3	6.3	84.1
377908	13.7	89.1	52.6	10.7	9.3	9.6	61.5	51.0	3.3	3.35	3.9	3.8	84.6	88.2	4.7	2.4	51.1	5.7	6.5	87.7
378730	13.5	—	57.8	10.7	9.0	9.6	60.0	46.5	3.4	3.5	4.0	3.8	85.0	92.1	5.05	2.65	52.5	6.2	6.6	92.9
378403	13.4	89.6	56.7	10.0	8.8	9.4	63.0	55.0	3.85	3.95	4.05	3.95	95.1	100.0	5.1	2.5	49.0	5.2	6.1	85.3
378422	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
377863	12.3	87.8	52.9	9.3	8.4	9.2	68.5	57.0	3.6	3.55	3.7	3.7	97.3	96.0	4.6	2.0	43.5	5.0	6.1	82.0
377808	13.7	92.0	56.2	10.1	8.8	9.6	63.5	55.0	3.6	3.55	3.9	4.0	92.3	88.8	4.9	2.3	46.9	5.3	6.1	87.0
377904	13.2	87.9	52.3	9.7	8.4	9.2	64.0	43.5	3.95	3.95	4.0	4.1	98.7	93.3	4.95	2.4	48.5	5.2	5.8	89.7
378413	12.7	—	—	—	—	—	—	—	3.95	3.9	4.2	4.1	89.3	95.1	4.45	2.25	50.6	—	—	—
378413	13.5	—	51.9	9.4	8.2	9.2	66.5	54.0	3.55	3.65	4.0	3.95	88.8	92.4	4.6	2.2	47.8	5.1	5.6	91.1
378415	13.7	—	46.7	9.3	8.2	9.2	69.0	47.5	3.65	3.65	4.0	4.0	91.3	91.3	4.8	2.5	52.1	5.0	6.2	80.7
377806	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
377920	14.3	87.4	51.8	10.2	9.0	9.6	63.5	54.5	3.6	3.75	—	3.85	—	97.4	4.95	2.6	52.5	5.4	6.3	85.7
377872	14.2	86.9	52.1	10.4	8.9	9.3	60.0	47.5	3.65	3.65	4.15	4.0	86.8	91.3	4.95	2.85	57.6	5.7	6.6	86.4
377818	14.0	—	—	—	—	—	—	—	3.65	3.65	4.2	4.0	86.9	91.3	5.3	2.6	49.1	—	—	—
378416	14.1	90.1	55.3	10.4	8.8	9.9	64.0	47.0	3.5	3.5	3.9	3.8	89.7	92.1	5.25	2.45	46.7	5.6	6.7	83.6
377870	13.9	—	51.1	10.1	8.8	9.8	67.0	49.0	3.5	3.6	4.05	3.9	86.4	92.5	5.0	2.3	46.0	5.2	6.2	85.9
378411	13.3	—	54.1	9.6	8.2	8.8	61.0	49.0	3.65	3.6	3.8	3.7	96.1	97.3	4.7	2.4	51.1	5.6	6.7	83.6
377926	14.4	—	49.3	—	8.7	9.4	—	—	3.4	3.55	4.2	4.2	81.0	84.5	4.8	2.5	52.1	—	—	—
378423	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
378414	14.1	—	51.1	10.4	9.0	9.8	65.0	46.0	3.95	3.95	4.05	4.0	97.5	98.7	5.1	2.35	46.1	5.6	6.7	82.6
377865	13.1	—	49.6	10.5	9.4	9.9	66.0	51.0	3.35	3.35	4.0	3.9	83.8	85.9	4.6	2.25	48.9	5.4	6.6	81.8



[illegible]



## PRE-ALEUTS: MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
378638	U.S.N.M.	Umnak	28	---	18.5	13.3	13.4	71.9	84.3	---	15.07	---	---	12.5	7.4
378614	do	do	60	---	19.1	13.8	(14.7)	72.3	(80.4)	---	15.87	---	---	---	7.2
378388	do	Agatu	40	---	18.8	13.6	13.1	72.5	80.9	---	15.17	1,345.0	---	13.0	7.7
378615	do	Umnak	55	---	19.0	13.8	13.1	72.6	79.9	---	15.30	---	---	13.0	7.6
377757	do	Little Kiska	55	---	19.2	14.1	---	73.4	---	---	---	---	---	13.4	7.8
5215-7	Leningrad Mus.	Secondarily from Commander Islands.	---	---	19.6	14.4	13.4	73.5	78.8	---	15.80	---	---	---	---
378626	U.S.N.M.	Umnak	60	---	19.1	14.1	---	73.8	---	---	---	---	---	---	8.2
378633	do	do	60	---	18.4	13.6	13.4	73.9	85.7	---	15.13	---	---	---	---
378602	do	do	45	---	18.9	14.0	14.1	74.1	85.7	---	15.67	1,490.0	---	12.5	7.4
7832	Moscow Mus.	do	50	---	18.6	13.8	13.1	74.2	80.9	---	15.17	---	---	---	---
378463	U.S.N.M.	Shiprock	60	---	18.3	13.6	13.1	74.3	82.1	---	15.0	---	---	13.0	7.8
378619	do	Umnak	55	---	19.5	14.5	13.8	74.4	81.2	---	15.93	---	---	13.4	8.3
378731	do	Kagamil	40	---	19.2	14.3	---	74.5	---	---	---	---	---	---	---
378478	do	Shiprock	45	---	18.8	14.0	12.6	74.5	76.8	---	15.13	---	---	12.0	7.0
378618	do	do	45	---	19.3	14.4	13.5	74.6	80.1	---	15.73	1,680.0	---	12.8	7.3
7812	Moscow Mus.	do	55	---	18.6	13.9	12.4	74.7	76.3	---	14.97	---	---	12.8	7.7
378622	U.S.N.M.	do	60	---	19.0	14.2	13.0	74.7	78.3	---	15.40	---	---	---	---
378641	do	do	55	---	18.4	13.8	12.6	75.0	78.3	---	14.93	---	---	12.5	7.4
7813	Moscow Mus.	do	55	---	18.6	14.0	12.3	75.3	75.5	---	14.97	---	---	---	7.5
378635	U.S.N.M.	do	60	---	19.5	14.7	---	75.4	---	---	---	---	---	---	---
378645	do	do	70	---	18.8	14.2	12.8	75.5	77.6	---	15.27	---	---	---	---
7823	Moscow Mus.	do	50	---	18.5	14.0	---	75.7	---	---	---	---	---	13.2	6.7
7806	do	do	60	---	19.0	14.4	13.6	75.8	81.4	---	15.67	---	---	---	7.9
7829	do	do	55	---	19.0	14.4	14.0	75.8	83.8	---	15.80	---	---	---	7.7
7828	do	do	60	---	18.2	13.8	12.8	75.8	80.0	---	14.93	---	---	---	---
377913	U.S.N.M.	do	45	---	18.2	13.8	12.9	75.8	80.6	---	14.97	---	---	13.0	8.2
365729	do	Kagamil	50	---	17.6	13.4	12.8	76.1	82.6	---	14.60	---	---	---	---
378603	do	Wislow Island	70	---	18.6	14.2	12.8	76.3	81.1	---	15.37	---	---	12.9	7.6
378607	do	Umnak	55	---	18.7	14.3	13.8	76.5	83.6	---	15.60	1,385.0	---	13.2	7.6
378609	do	do	50	---	18.4	14.1	13.0	76.6	80.0	---	15.17	1,390.0	---	12.2	7.3
378612	do	do	50	---	18.9	14.5	13.4	76.7	80.2	---	15.60	1,510.0	---	13.4	7.8
378643	do	do	55	---	19.8	15.2	14.0	76.8	80.0	---	16.33	1,690.0	---	14.7	8.8
378627	do	do	45	---	19.0	14.6	13.4	76.8	79.8	---	15.67	---	---	---	---
378543	do	do	35	---	19.0	14.6	13.0	76.8	77.4	---	15.53	---	---	13.2	8.1
378408	do	do	70	---	19.0	14.6	13.3	76.8	79.2	---	15.63	1,500.0	---	---	7.5



[illegible]

Footnotes on p. 81 at end of table.



## PRE-ALEUTS: MALES—Continued

Catalog No.	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxim.	Upper Alveolar Arch— Breadth maxim.	Upper Alveolar Arch— Index
378638	14.3	96.1	51.7	10.7	9.9	10.6	69.0	61.5	3.25	3.25	4.1	4.0	79.3	81.2	5.3	2.6	49.1	5.5	6.8	80.9
378614	13.0	96.4	52.4	10.9	10.2	11.4	74.5	60.5	3.8	3.8	4.2	3.85	90.5	91.8	5.6	2.5	46.5	5.3	6.5	81.5
378388	13.8	92.2	52.2	9.9	9.0	10.0	69.5	60.0	3.1	3.1	4.0	3.85	77.5	81.8	4.95	2.3	46.5	5.3	6.5	81.5
378615	14.0	92.9	55.0	10.4	9.0	10.0	65.0	48.5	3.8	3.8	3.9	3.9	97.4	97.4	5.4	2.4	44.4	5.3	7.0	85.6
377757	14.7	88.4	51.7						3.7	3.7	3.9	4.3	94.9	88.4	5.35	2.6	48.6	5.5	7.2	78.6
52157	14.4	93.1	54.2			10.3			3.6	3.6	4.2	4.3	88.4	88.4	5.5	2.85	61.8	5.9	7.2	81.9
378626									3.6	3.6	4.2	4.3	85.7	85.7	5.8	2.55	44.0			
378633									3.7	3.7	4.2	4.05	88.1	91.4	5.5	2.6	47.3	5.4	6.4	84.4
378602	14.6	85.6	50.7	10.0	9.0	10.3	71.0	55.0	3.8	3.8	3.9	3.8	97.4	97.4	5.4	2.5	46.3	5.4	6.5	83.1
7832									3.6	3.6	3.75	3.8	96.0	97.4	5.2	2.7	61.9	5.1	6.5	83.9
378463	14.0	92.9	55.7	10.1	8.8	10.0	66.5	54.0	3.7	3.7	3.75	3.8	96.0	97.4	5.2	2.7	61.9	5.1	6.5	78.5
378649	14.9	89.9	56.7	10.0	9.2	10.6														
378731																				
378478	14.6	82.2	48.0	10.7	9.6	10.2	65.5	52.0	3.3	3.3	4.0	3.8	82.5	88.2	5.1	2.6	61.0	5.3	6.4	82.8
378618	14.5	88.3	50.3	10.8	9.8	10.8	70.0	50.5	3.5	3.5	4.4	4.25	79.6	82.4	5.7	2.65	46.5	5.8	6.8	85.4
7812	14.1	90.8	54.6	10.7	9.8	10.6	68.0	62.0	3.8	3.8	4.1	4.0	92.7	96.0	5.25	2.5	47.6	5.4	6.4	84.3
378622	14.7				9.4	10.6			3.5	3.5	4.1	3.95	85.4	88.6	5.5	2.8	60.9	5.4	6.4	84.4
378641					9.9	10.3	62.0	42.5							5.4	2.6	48.2	5.3	6.0	88.3
7813	13.6		55.2	11.4	7.8	9.2	66.5	53.5	3.45	3.45		3.9		88.5	4.95	2.45	49.5	5.3	6.6	80.3
378635	15.0								3.5	3.5	4.2	3.8	83.8	88.5						
378645	14.3				9.6	10.4			3.6	3.6	4.0	3.9	90.0	96.0	5.35	2.45	46.8			
7823	14.1		47.5						3.55	3.55	4.0	3.9	88.8	91.0	4.7	2.6	55.3	5.6	6.8	82.4
7806	14.9	88.6	53.0	10.2	9.2	10.0	65.5	60.0	3.95	3.95	3.9	3.9	101.3	102.6	5.25	2.65	50.5	5.6	6.9	81.2
7829	14.2		54.2	10.5	9.4	10.7	70.0	56.0	3.5	3.5	3.9	3.9	89.7	88.5	5.4	2.4	44.4			
7828					8.1	9.3			3.7	3.7	3.7	3.6	100.0	103.3	5.0	2.1	42.0			
377913	13.3	97.7	61.6	10.6	9.6	10.4	65.5	61.5	3.85	3.85	4.1	4.0	93.9	96.2	5.4	2.6	48.2	5.6	6.4	87.5
365729	13.8				9.7	10.2			3.6	3.6	3.9	3.9	92.5	91.0	5.1	2.6	61.0			
378603	14.6	88.4	52.1			11.4			3.7	3.7	4.2	3.9	88.1	88.1	5.1	2.5	49.0	5.7	6.8	85.8



	14.8	89.2	51.4	10.8	9.9	10.6	68.0	62.0	3.8	3.85	4.4	4.3	86.4	89.5	5.3	2.75	51.9	5.9	6.8	86.8
378607	14.6	83.6	50.0	11.0	10.2	10.6	67.5	63.0	3.4	3.4	4.0	3.9	85.0	87.2	5.05	2.5	49.5	5.2	6.5	80.0
378609	14.2	84.4	54.9	10.4	8.9	10.4	68.0	49.0	3.8	3.6	4.0	4.0	85.0	90.0	5.4	2.65	49.1	5.9	6.9	85.5
378612	15.7	93.6	56.0	10.8	9.6	10.9	66.5	59.0	3.85	3.95	4.7	4.5	81.9	87.8	5.8	2.65	45.7	6.1	6.9	88.4
378643	14.8	89.2	54.7	10.4	9.3	10.4	67.0	56.5	3.75	3.75	4.1	4.0	91.5	93.7	5.6	2.8	50.0	5.3	6.0	88.3
378643	14.5	---	51.7	10.6	9.2	10.4	67.5	50.0	3.7	3.65	4.0	3.8	92.5	96.0	5.15	3.05	59.2	---	---	---
378648	13.7	---	---	10.3	9.3	10.6	70.0	55.0	---	---	---	---	---	---	---	---	---	---	---	---
378631	13.7	---	69.1	9.2	7.8	9.3	64.5	52.0	3.8	3.85	4.0	3.9	95.0	98.7	5.4	2.3	59.0	5.4	6.7	80.6
378328	14.0	88.6	52.1	11.3	10.0	10.4	63.0	46.0	3.55	3.55	3.8	3.8	88.8	93.4	5.35	2.6	42.6	5.2	6.0	86.7
378691	14.3	---	---	---	9.4	10.2	66.0	---	3.3	3.35	3.8	3.7	86.8	90.5	4.85	2.6	48.6	6.2	6.7	92.5
3292	14.1	92.9	58.2	10.3	9.0	10.2	66.0	54.0	---	---	---	4.1	---	95.1	5.6	2.7	48.2	6.2	7.2	86.1
7790	15.0	90.0	54.0	10.2	9.0	10.0	65.0	55.0	3.55	3.9	4.2	4.1	91.7	95.1	5.6	2.55	45.5	5.7	7.1	80.3
378276	13.9	82.0	48.2	10.9	10.0	10.3	66.5	57.5	3.35	3.3	3.9	3.8	85.9	86.8	4.8	2.45	51.0	5.6	6.6	81.8
378475	15.0	82.5	51.3	11.2	10.1	10.6	65.0	58.5	---	---	---	4.05	---	86.4	5.05	2.55	50.5	5.7	7.2	79.2
378250	13.1	90.7	55.0	10.1	8.8	9.9	66.0	62.5	3.6	3.65	4.0	3.9	90.0	93.6	5.25	2.65	50.5	6.1	6.8	89.7
378544	14.1	92.2	55.3	10.1	9.4	9.9	69.0	55.0	3.4	3.4	4.0	3.9	85.0	87.2	4.75	2.9	49.0	5.8	6.8	85.3
7811	14.3	---	50.4	10.7	9.4	10.7	70.0	56.0	3.5	3.45	3.9	3.9	89.7	88.5	5.4	2.4	48.2	5.7	6.9	82.6
378729	14.2	---	---	10.5	8.9	10.0	67.5	52.0	3.85	3.85	4.0	4.0	96.2	96.2	5.2	2.55	49.0	5.7	6.2	91.9
7766	14.3	90.9	51.8	10.1	9.2	10.2	67.5	58.0	3.55	3.5	4.1	4.0	86.6	87.5	5.05	2.5	49.5	6.0	7.1	84.5
378341	14.4	88.9	52.8	10.3	9.1	10.2	67.5	58.0	3.35	3.4	3.9	3.9	85.9	87.2	4.55	2.35	51.6	5.4	6.3	85.7
378624	15.2	77.0	44.7	10.2	9.2	9.9	67.5	56.5	3.85	3.7	4.1	4.1	93.9	90.2	4.65	2.5	53.8	5.6	7.2	77.8
378477	14.7	87.1	54.4	10.1	8.8	9.7	64.0	51.5	3.75	3.85	4.1	4.0	91.5	96.2	5.7	2.45	43.0	5.5	6.5	84.6
378377	14.5	83.5	49.0	10.0	8.9	10.1	70.0	49.0	3.55	3.55	4.1	4.0	86.6	88.8	5.45	2.7	49.5	5.2	6.6	78.8
378610	14.9	85.2	47.0	11.0	9.9	10.7	68.5	55.0	3.5	3.6	4.1	4.1	85.4	87.8	4.8	2.6	54.2	5.6	7.0	80.0
378651	15.0	89.3	60.0	11.6	9.7	10.6	60.0	50.0	3.45	3.55	4.2	4.25	82.1	83.5	5.5	2.55	45.5	6.3	7.3	86.3
378620	14.8	89.9	53.4	10.8	9.5	10.6	67.0	53.0	3.7	3.75	4.2	4.1	88.1	91.5	5.45	2.45	45.0	5.8	6.9	84.1
378474	14.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Specimens	(48)	(34)	(42)	(41)	(47)	(51)	(39)	(39)	(47)	(44)	(47)	(44)	(47)	(44)	(51)	(51)	(51)	(43)	(43)	(43)
Totals	691.7	---	---	429.9	438.5	525.3	2,613.0	2,148.5	170.0	159.3	190.8	174.8	---	---	269.10	130.7	240.7	237.0	---	---
Averages	14.41	89.23	52.91	10.49	9.33	10.32	67.0	55.09	3.92	3.62	4.06	3.97	89.10	91.18	5.28	2.56	48.57	5.60	6.67	83.87
Minima	13.0	77.0	44.7	9.1	7.8	9.2	60.0	42.5	3.1	3.15	3.7	3.6	77.5	81.2	4.65	2.1	39.0	5.10	6.0	77.8
Maxima	15.7	99.3	69.1	11.6	10.2	11.4	74.5	63.0	3.95	4.0	4.7	4.5	101.3	108.3	5.9	3.05	61.0	6.3	7.3	92.5

1 Allowance made for wear of teeth, where needed.

2 Small, but male characters.

3 Not negroid.



## PRE-ALEUTS: FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) 1	Alveol. Pt.-Nasion Height (b)
378628	U.S.N.M.	Umnak	60		19.4	13.4	13.9	69.1	84.8		15.57				
378658	do.	do.	50		18.5	12.9		69.7							
378652	do.	do.	65		18.4	13.0	13.5	70.6	86.0		14.97	1,305			7.6
378456	do.	do.	80		18.4	13.2		71.7							7.1
378659	do.	do.	60		18.4	13.3		72.3							
378655	do.	do.	60		18.5	13.4		72.4							
378680	do.	do.	55		18.9	13.8	12.3	73.0	75.2		15.0				7.4
378637	do.	do.	70		17.9	13.1	13.5	73.2			14.83				
378634	do.	do.	75		18.0	13.2	12.7	73.3	81.4		14.63	1,255			7.1
378654	do.	do.	35		18.0	13.3	13.8	73.9	88.2		15.03				
378646	do.	do.	35		18.4	13.7	13.4	74.5	83.5		15.17				7.1
378632	do.	do.	60		18.8	14.0		74.5							
378642	do.	do.	55		18.8	14.0	12.8	74.5	78.1		15.20				
378868	do.	do.	18		18.1	13.5	12.0	74.6	76.0		14.53	1,430			6.9
378648	do.	do.	60		18.6	13.9		74.7							
378630	do.	do.	30		18.3	13.8	13.8	75.4	86.0		15.30	1,300			7.6
378473	do.	Shiprock	65		18.3	13.8	12.1	75.4	75.4		14.73				7.9
378706	do.	do.	75		17.4	13.2	12.0	75.9	78.4		14.20				
7831	Moscow Mus.	do.	30		17.7	13.5	12.0	76.3	76.9		14.40				6.6
378621	U.S.N.M.	Umnak	70		18.2	13.9	13.6	76.4	84.7		15.23	1,335			6.7
378647	do.	do.	55		18.8	14.4	12.4	76.6	74.7		15.20	1,350			
378697	do.	Amchitka	50		17.2	13.2	12.4	76.7	81.6		14.27				
5215	Leningrad Mus.	Secondarily from Commander Islands			18.0	13.8	12.8	76.7	80.5		14.87				7.0
378308	U.S.N.M.	Černovski	60		17.0	13.1		77.1							6.9
378623	do.	Umnak	70		17.9	13.8	12.4	77.1	78.2		14.70	1,255			
7807	Moscow Mus.	do.	70		18.4	14.2	11.8	77.2	72.4		14.80				7.3
378398	U.S.N.M.	Attu	20		17.6	13.6	11.8	77.3	73.6		14.33				6.6
7787	Moscow Mus.	Umnak	60		17.2	13.3	13.0	77.3	85.2		14.50				7.2



	U.S.N.M.		45	18.1	14.0	77.4	78.5			1,140.0		11.8	7.2
378392	Agatu		50	17.8	13.8	12.4	77.6	78.5			14.67		7.4
378165	Shiprock		65	17.4	13.5	12.2	79.0	79.0			14.37		
378400	Kagamil			18.0	14.0	12.6	77.8	78.8			14.87		
378344	Atka		50	18.0	14.0	11.8	77.8	73.8			14.60		7.1
378272	Kashega			18.0	14.0	12.9	77.8	80.6			14.97	12.5	7.7
378298	Černovski		50	18.0	14.0	12.8	77.8	80.0		1,340.0	14.93	12.7	7.9
378542	Shiprock		85	17.9	14.0		78.2						6.8
378704	do		30	17.6	13.8	13.1	78.4	83.4		1,230.0	14.83		6.5
378701	Amchitka		40	18.0	14.2	12.4	78.9	77.0			14.87		
378617	Umnak		65	18.0	14.2	12.8	78.9	79.5		1,350.0	15.0	12.0	7.1
377915	Kagamil			17.2	13.6	12.4	79.1	80.5			14.40	11.5	7.0
5022	Atka			17.3	13.7	13.0	79.2	83.9			14.67		7.7
378640	Umnak			17.8	14.1	12.2	79.2	76.5			14.70		6.7
7830	do		35	17.5	13.9	12.3	79.4	78.3			14.57		7.2
7762	do		70	17.1	13.6	11.8	79.5	76.9			14.17		
7768	do		55	17.1	13.6	11.4	79.5	74.3			14.03	11.6	6.8
377753	Amoknak		65	17.6	14.0	13.3	79.6	84.2		1,230.0	15.17	13.2	8.0
378639	Umnak			17.3	13.8	12.6	79.8	81.0			14.57		7.5
378343	Atka		26	17.5	14.0	13.0	80.0	82.5			14.83		6.9
378454	Umnak		65	17.6	14.1	12.6	80.1	79.5			14.77		
378466	Shiprock		70	17.6	14.1	12.8	80.1	80.8			14.83	11.5	7.2
378470	do		55	18.4	14.8	12.8	80.4	77.1			15.33	12.4	7.4
378604	Umnak			17.4	14.0	12.4	80.5	79.0			14.60		7.1
7809	Moscow Mus.		55	17.4	14.0	13.4	80.5	85.3			14.93		6.5
378330	U.S.N.M.		30	17.6	14.2	12.7	80.7	79.9			14.83		6.6
7816	Moscow Mus.		20	17.6	14.2	12.3	80.7	77.4			14.70	11.7	7.1
7777	do		65	17.6	14.2	12.4	80.7	78.0			14.73	12.4	7.4
378405	Kagamil		55	17.6	14.2	11.8	80.7	74.2			14.53	11.4	6.7
378468	Shiprock		28	18.3	14.8	13.3	80.9	80.4			15.47	10.9	6.4
378616	Umnak		30	17.8	14.4	12.8	80.9	79.5		1,400.0	15.0	12.6	7.7
378601	do		35	16.8	13.6	12.9	81.0	84.9			14.43	12.3	7.5
378372	Agatu		50	17.4	14.1	13.0	81.0	82.5			14.83	11.8	7.2
7796	Umnak		60	17.6	14.3		81.3						7.3
7782	do		70	18.0	14.7	12.8	81.7	78.3			15.17		
7779	do			17.0	13.9	11.8	81.8	76.4			14.23		6.7
7767	do		50										
Specimens			(61)	(64)	(64)	(54)	(64)	(54)		(13)	(54)	(20)	(45)
Totals			3182	1,144.0	884.7	682.8	77.63	79.82		16,980.0	798.06	240.7	321.3
Averages			52.2	17.88	13.82	12.64	69.1	72.4		1,306.2	14.78	12.04	7.14
Minima			18	16.8	12.9	11.4	69.1	72.4		1,140.0	14.03	10.9	6.4
Maxima			80	19.4	14.8	13.9	81.8	88.2		1,450.0	15.57	13.2	7.9

1 Allowance made for tooth wear, where needed.



## PRE-ALEUTS: FEMALES—Continued

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
378628						11.0			3.8		4.0		95.0							
378658						10.2	67.5	51.5	3.7	3.65	4.05	3.9	91.4	93.6	5.3	2.45	46.2			
378652	13.3		67.1	10.3	9.0				3.7	3.7	3.85	4.0	96.1	92.5	5.1	2.55	50.0			
378456	12.5		66.8																	
378659																				
378655																				
378680	13.3		66.6	9.9	8.8	10.0	69.0	53.5	4.0	4.0	4.3	4.2	93.0	95.2	5.4	2.65	49.1	5.3	6.2	85.5
378637						10.3														
378634	12.8		66.5	9.7	8.5	9.4	66.0	49.0	3.7	3.8	4.0	4.0	92.5	95.0	5.2	3.0	57.7	5.3	6.3	84.1
378654																				
378646	13.6		62.2	10.2	9.2	10.0	68.0	57.0	3.45	3.5	3.9	3.7	88.5	94.6	5.0	2.5	50.0	5.5	7.0	78.6
378632																				
378642						10.5	65.0	53.0	3.4	3.4	3.8	3.7	89.5	91.7	4.75	2.2	46.3	5.3	6.1	86.9
378688	11.7		69.0	9.9	8.8	9.4														
378648																				
378630	13.4	94.0	66.7	10.5	9.4	10.3	67.0	57.0	3.3	3.3	4.0	3.9	82.5	84.6	5.3	2.45	46.2	5.4	6.8	79.4
378473	13.4	94.8	59.0	9.6	8.2	9.8	67.0	52.0	3.9	3.95	4.0	3.9	97.5	101.3	5.25	2.6	49.5	5.7	6.9	82.6
378706	13.4					10.0			3.4	3.5	3.9	3.9	87.2	89.7	5.0	2.35	47.0	5.1	6.5	78.6
7831	13.8		47.8	10.1	9.0	9.7	67.0	51.0	3.6	3.6	4.1	4.0	87.8	90.0	4.7	2.5	53.2	5.5	6.5	84.6
378621	13.5	84.4	49.6		9.0	9.8			3.35	3.2	3.95	3.9	84.8	82.1	4.6	2.6	56.5			
378647	13.9					9.6														
378697						9.6														
52215	13.5	86.7	61.9	10.5	9.2	9.8	64.5	50.0	3.2	3.3	3.7	3.6	86.5	91.7	4.8	2.35	49.0	5.4	6.4	84.4
378308	12.8		63.9						3.6	3.55	3.7	3.9	97.3	91.0	4.7	2.4	51.2	5.3	5.8	91.4
378623																				
7807	14.0		62.1	9.7	8.5	9.5	67.0	56.5	3.8	3.45	4.1	3.75	92.7	92.0	4.9	2.4	48.5	5.1	6.0	85.0
378308	12.9		61.2	9.1	8.3	9.1	68.5	58.5	3.5	3.7	3.95	3.9	93.7	94.9	4.9	2.3	48.9			
7787	13.3		64.1	9.8	8.8	9.6	62.0	57.0	3.7	3.4	4.2	4.2	81.0	81.0	5.0	2.5	50.0	5.2	6.6	78.8
378392									3.4	3.4	3.8	3.7	89.5	91.9	4.9	2.3	46.9	5.3	6.3	84.1
378165	13.5	87.4	53.3	9.7	8.8	9.6	67.5	60.0	3.4	3.4	3.8	3.7	89.5	89.5	5.1	2.5	49.0	5.2	6.4	79.1
378400																				
378344	12.7					9.4	65.0	53.0	3.4	3.4	3.6	3.6	94.4	94.4	5.0	2.35	47.0	5.1	6.3	81.0
378272	12.4		67.3	9.3	8.2	9.0			3.6	3.6	4.1	4.1	87.8	88.5	5.0	2.7	54.0	5.5	6.3	87.3
378298	13.0	96.1	69.2	10.7	9.4	10.0	63.5	54.0	3.6	3.6	4.1	3.9	88.5	87.8	5.45	2.3	42.2	5.3	6.6	80.3
378542	14.3	88.8	55.2	10.2	9.0	10.4	69.0	55.0	3.4	3.45	3.85	3.6	88.5	91.7	4.9	2.4	49.0			
378704	14.1		48.2	10.0	8.8	9.6	66.5	49.0		3.3		3.6								



	14.0	46.4	10.3	9.4	10.0	69.0	58.5	3.35	3.35	3.35	3.9	3.7	85.9	90.5	4.5	2.5	55.6	5.4	6.5	88.1
378701	13.7	87.6	10.4	9.4	9.8	66.5	57.0	3.6	3.6	3.65	4.15	4.0	86.8	91.8	4.9	2.7	55.1	5.3	6.5	81.5
378715	13.0	88.5	9.9	8.8	9.6	66.5	56.0	3.4	3.4	3.95	3.95	4.0	86.1	91.8	4.7	2.55	54.8	5.4	6.2	87.1
5022	13.5	87.0	10.2	8.8	9.8	64.5	50.5	3.9	4.0	4.0	4.1	4.2	85.1	95.2	5.2	2.4	46.2			
378640	13.4	87.0	9.3	8.1	9.6	66.0	47.0	3.3	3.3	3.3	3.85	3.75	85.7	91.9	4.7	2.2	46.8	6.1	6.2	(98.4)
7830	13.3	87.0	10.2	8.6	9.6	65.0	43.5	3.25	3.25	3.4	3.8	3.7	85.5	91.9	4.6	2.0	42.5	5.2	6.0	86.7
7762	12.8	90.6	9.4	7.8	9.0	65.0	59.0	3.6	3.6	3.5	3.9	3.8	92.3	92.1	5.55	2.6	46.9	5.5	6.8	80.9
377753	13.7	86.3	10.1	9.1	10.1	63.5	56.5	3.5	3.5	3.5	3.8	3.8	92.1	92.1	5.0	2.45	49.0	5.2	6.4	81.3
378639	12.8	88.6	9.9	8.8	9.9	63.5	56.5	3.4	3.4	3.3	3.75	3.7	90.7	89.2	4.85	2.3	47.4	5.3	6.2	86.5
378343	13.6	86.7		8.8	9.9			3.5	3.5	3.45	4.0	3.9	87.5	88.5	4.9	2.6	53.1			
378454	13.4			8.9	9.9			3.5	3.5	3.45	4.0	3.9	87.5	88.5	4.9	2.6	53.1			
378406	13.5	85.2	9.9	8.8	9.8	68.0	53.0	3.5	3.5	3.5	4.1	4.0	85.4	87.5	5.15	2.55	49.5	5.2	6.4	81.3
378470	14.1	87.9	10.4	9.4	10.4	69.5	57.0	3.8	3.8	3.95	4.1	4.0	92.7	98.7	5.3	2.65	50.0	5.2	6.0	88.7
378604	13.2	87.9	10.4	9.3	10.0	67.0	55.0	3.2	3.2	3.75	3.9	3.9	92.7	96.1	4.9	2.4	49.0	5.4	6.1	88.5
7809	13.2	49.2	9.1	8.2	9.4	72.0	58.5	3.2	3.2	3.8	3.8	3.8	84.2	85.5	4.4	2.55	57.9	4.8	5.9	81.4
378330	13.1	50.4	9.4	8.4	9.6	72.0	56.5	3.2	3.2	3.25	3.8	3.8	84.2	85.5	4.6	2.2	47.8			
7777		52.2	10.5	9.2	9.8	64.0	51.0	3.5	3.5	3.5	4.2	4.05	83.5	86.4	4.8	2.4	50.0	5.4	6.2	87.1
378405	13.9	89.2	10.4	9.2	10.0	65.0	54.5	3.4	3.4	3.3	3.8	3.6	89.5	91.7	5.0	2.5	50.0	5.2	6.4	81.3
378468	12.8	89.1	9.9	8.6	9.8	69.0	46.5	3.6	3.6	3.6	4.1	4.0	87.8	90.0	5.2	2.6	50.0	5.3	5.6	87.5
378616		55.0	10.4	9.3	9.5	64.5	58.0	3.25	3.25	3.2	3.8	3.8	85.5	84.2	4.8	2.3	47.9	4.9	5.6	88.3
378601	14.0	90.0	9.6	8.6	9.4	65.5	56.5	3.35	3.35	3.6	4.1	4.0	87.8	90.0	5.2	2.6	50.0	5.5	6.3	87.3
378372	13.4	86.0	9.6	8.6	9.4	65.5	56.5	3.25	3.25	3.2	3.8	3.8	85.5	84.2	4.8	2.4	44.9	5.4	6.7	80.6
7796	13.2	89.4	9.5	8.2	9.4	67.0	51.5	3.35	3.35	3.6	3.8	4.0	88.2	90.0	4.7	2.15	44.8	5.4	6.3	85.7
7782	13.5	54.1						3.6	3.6						4.7	2.45	52.1	5.3	5.8	91.4
7779	13.9				9.6															
7767	13.4	50.0	9.9	8.4	9.2	63.5	45.0	3.2	3.2	3.3	3.8	3.9	84.2	84.6	4.6	2.15	46.7	5.4	6.1	88.5
Specimens	(47)	(18)	(38)	(43)	(53)	(37)	(37)	(42)	(42)	(42)	(42)	(42)	(42)	(42)	(47)	(47)	(47)	(38)	(38)	(38)
Totals	627.5		378.3	379.0	517.5	2,466.0	1,988.0	147.1	147.45	165.1	162.65	162.65	89.10	90.65	232.55	114.65	202.3	239.6	239.6	84.43
Averages	13.35	89.86	9.96	8.81	9.76	66.65	53.73	3.50	3.51	3.93	3.87	3.87	89.10	90.65	4.95	2.44	49.30	5.32	6.31	84.43
Minima	11.7	84.4	9.1	7.8	9.0	62.0	43.5	3.2	3.2	3.6	3.6	3.6	81.0	81.0	4.4	2.0	42.2	4.8	5.6	78.5
Maxima	14.3	96.3	10.7	9.4	11.0	72.0	60.0	4.0	4.0	4.3	4.2	4.2	97.5	101.3	5.55	3.0	57.9	6.1	7.0	91.4



# KODIAK AND ALEUTIAN ISLANDS (Abstract)

Measurement	M A L E S				F E M A L E S			
	Koniag	pre-Koniag	Aleut	pre-Aleut	Koniag	pre-Koniag	Aleut	pre-Aleut
Approximate age.....	(52) 37.7	(76) 44.3	(88) 44.9	(55) 50.4	(35) 36.6	(139) 43.7	(92) 43.5	(61) 52.2
Vault:								
Length.....	(49) 17.56	(67) 18.01	(113) 18.05	(57) 18.69	(33) 16.81	(135) 17.31	(115) 17.25	(64) 17.88
Breadth.....	(49) 15.08	(67) 13.99	(113) 15.07	(57) 14.26	(33) 14.54	(135) 13.54	(115) 14.47	(64) 13.82
Height.....	(48) 13.53	(61) 13.92	(111) 12.90	(49) 13.14	(33) 13.0	(116) 13.38	(111) 12.32	(54) 12.64
<i>Cranial index</i> .....	(49) 85.87	(67) 77.65	(113) 83.48	(57) 76.27	(33) 86.50	(135) 78.21	(115) 83.85	(64) 77.33
<i>Mean height index</i> .....	(48) 83.01	(61) 86.97	(111) 77.90	(49) 79.8	(33) 82.94	(116) 86.82	(111) 77.63	(54) 79.82
Module (mean diam.).....	(48) 15.40	(67) 15.30	(111) 15.34	(50) 15.36	(35) 14.77	(116) 14.61	(111) 14.69	(54) 14.78
Capacity.....	(2) 1,575.0	(55) 1,536.7	(55) 1,536.7	(13) 1,502.3	(2) 1,202.5	(42) 1,368.0	(42) 1,368.0	(13) 1,306.2
Face:								
Total height.....	(35) 12.47	(44) 13.06	(57) 12.59	(36) 12.93	(21) 11.90	(63) 12.06	(46) 11.70	(20) 12.04
Upper height.....	(50) 7.53	(63) 7.85	(102) 7.54	(46) 7.64	(28) 7.19	(115) 7.35	(95) 7.06	(45) 7.14
Maximum breadth.....	(50) 14.56	(63) 14.03	(106) 14.43	(48) 14.41	(28) 13.33	(107) 12.93	(104) 13.42	(47) 13.35
<i>Facial index, total</i> .....	(33) 85.80	(41) 93.38	(57) 87.32	(34) 89.23	(19) 89.02	(57) 95.41	(42) 87.42	(18) 89.86
<i>Facial index, upper</i> .....	(50) 51.74	(58) 55.98	(99) 52.31	(42) 52.91	(28) 53.91	(100) 56.92	(89) 52.62	(42) 53.62
Base, etc.:								
Basion-Alveolar Pt.....	(49) 9.83	(54) 10.28	(100) 10.52	(41) 10.49	(28) 9.74	(86) 9.94	(93) 9.90	(38) 9.96
Basion-Subnasal Pt.....	(47) 9.09	(60) 9.15	(105) 9.22	(47) 9.33	(31) 8.55	(96) 8.81	(101) 8.69	(43) 8.81
Basion-Nasion.....	(49) 10.22	(63) 10.41	(108) 10.01	(51) 10.32	(33) 9.63	(112) 9.98	(110) 9.23	(53) 9.76
Facial angle.....	(45) 68.23	(53) 68.42	(98) 64.57	(39) 67.0	(26) 67.27	(85) 68.34	(88) 65.28	(37) 66.65
Alveolar angle.....	(45) 54.54	(53) 57.03	(97) 52.07	(39) 55.09	(26) 51.87	(85) 55.37	(88) 51.86	(37) 53.73
Orbits:								
Mean height.....	(53) 3.57	(61) 3.63	(109) 3.69	(50) 3.62	(30) 3.51	(117) 3.53	(99) 3.54	(48) 3.51
Mean breadth.....	(53) 4.0	(61) 4.01	(109) 4.11	(50) 4.02	(30) 3.88	(117) 3.82	(99) 3.90	(48) 3.90
<i>Orbital index</i> .....	(53) 89.50	(61) 90.37	(109) 89.67	(50) 90.07	(30) 90.45	(117) 92.21	(99) 90.89	(48) 89.87
Nose:								
Height.....	(48) 5.27	(65) 5.39	(108) 5.28	(51) 5.28	(31) 4.97	(117) 5.08	(104) 4.89	(47) 4.95
Breadth.....	(48) 2.50	(65) 2.50	(108) 2.53	(51) 2.56	(31) 2.41	(117) 2.37	(103) 2.43	(47) 2.44



<i>Index</i> .....	(48)	(65)	(108)	(51)	(31)	(17)	(103)	(47)
Upper Alveolar Arch:	47.40	46.40	48.72	48.67	48.57	46.72	49.69	49.30
Length.....	(50)	(50)	(99)	(43)	(26)	(96)	(90)	(38)
Breadth.....	5.57	5.54	5.64	5.60	5.26	5.31	5.29	5.32
<i>Index</i> .....	(50)	(50)	(99)	(43)	(26)	(96)	(90)	(38)
Lower jaw:	6.81	6.74	6.60	6.67	6.39	6.41	6.25	6.31
Height at symphysis.....	(50)	(50)	(99)	(43)	(26)	(96)	(90)	(38)
Diam. frontal minimum.....	81.8	82.19	85.47	85.87	82.56	82.87	84.68	84.43
	(36)	(55)	(22)	(71)	(22)	(71)		
	3.50	3.73	3.33	3.33	3.33	3.45		
	(48)	(67)	(28)	(117)	(28)	(117)		
	9.73	9.47	9.25		9.25	9.19		

SIBERIA: NEOLITHIC CRANIA<sup>1</sup>  
(Abstract)

Measurement	MALES		FEMALES		Measurement	MALES		FEMALES	
	Angara River	Upper Lena River	Angara River	Upper Lena River		Angara River	Upper Lena River	Angara River	Upper Lena River
Approximate age.....	(39)	(7)	(20)	(6)	Base, etc.—Continued.	(17)	(6)	(10)	(4)
Vault:					Basion—Subnasal Pt.....	9.56	9.72	8.94	8.95
Length.....	(39)	(7)	(20)	(6)	Basion—Nasion.....	10.66	10.60	10.0	9.70
Breadth.....	(39)	(7)	(20)	(6)	Facial angle.....	69.2	68.6	68.7	67.0
Height.....	(27)	(6)	(13)	(5)	Alveolar angle.....	(17)	(5)	(9)	(4)
Cranial index.....	13.43	13.50	12.65	12.26	Orbits (mean):	54.8	56.1	53.9	51.1
Mean height index.....	(39)	(7)	(20)	(6)	Height.....	(20)	(7)	(10)	(6)
Module (mean diam.).....	73.5	73.5	75.4	75.5	Breadth.....	3.43	3.39	3.30	3.38
Face:					<i>Index</i> .....	(20)	(7)	(10)	(6)
Total height.....	(10)	(2)	(3)	(2)	Nose:	3.94	3.93	3.82	3.76
Upper height.....	12.60	(12.55)	(11.30)	(11.15)	Height.....	86.9	84.4	86.1	90.0
Breadth.....	(19)	(6)	(13)	(5)	Breadth.....	(21)	(7)	(12)	(5)
Facial index Total.....	7.69	7.33	7.08	6.86	<i>Index</i> .....	(21)	(7)	(12)	(5)
Facial index Upper.....	(24)	(7)	(12)	(6)	Upper Alveolar Arch:	2.61	2.45	2.48	2.33
Base, etc.:					Length.....	(21)	(7)	(12)	(5)
Basion-Alveolar Pt.....	14.28	14.10	13.20	13.0	Breadth.....	48.3	46.9	49.3	47.9
	(10)	(2)	(3)	(2)	<i>Index</i> .....	(21)	(4)	(11)	(4)
	88.2	(89.9)	(85.0)	(85.8)	Length.....	5.81	5.93	5.56	5.60
	(18)	(6)	(11)	(5)	Breadth.....	(21)	(4)	(11)	(4)
	54.1	52.1	54.0	52.8	<i>Index</i> .....	(21)	(4)	(11)	(4)
	(17)	(5)	(10)	(4)		86.8	87.8	87.7	90.3
	10.68	10.63	10.08	10.08					

<sup>1</sup> Detailed measurements published in Amer. Journ. Phys. Anthropol., vol. 29, 1942.



## SIBERIA: SAMOYED

## MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
974	Voienno-Med. Acad.	Yenisei	---	---	19.1	14.8	13.4	77.49	79.06	---	15.77	---	---	12.7	7.6
129	Leningrad Mus.	Northwest Asia	---	---	18.4	14.3	12.1	77.72	74.01	---	14.93	---	---	---	7.3
4339	Moscow Mus.	Archangelski Gub.	35	---	18.8	14.8	12.6	78.72	76.0	---	15.40	---	---	---	8.0
4348	do	---	Elderly	---	17.8	14.2	12.6	79.78	78.75	---	14.87	---	---	---	---
50066	Leningrad Mus.	Archangelski Krai	---	---	17.7	14.2	13.1	80.23	82.13	---	15.00	---	---	11.9	7.3
4344	Moscow Mus.	Archangelski Gub.	35	---	17.3	14.2	13.0	82.08	82.54	---	14.83	---	---	---	7.3
4340	do	do	25	---	17.5	14.5	12.6	82.86	78.75	---	14.87	---	---	12.5	7.8
50062	Leningrad Mus.	Archangelski Krai	---	---	17.5	15.1	12.8	86.29	78.53	---	15.13	---	---	---	7.4
4346	Moscow Mus.	Archangelski Gub.	Elderly	---	17.4	15.4	12.9	83.51	78.66	---	15.23	---	---	---	7.5
Prov. No. S-1 <sup>6</sup>	Leningrad Mus.	---	---	---	17.1	15.2	12.5	83.89	77.40	---	14.93	---	---	---	---
Specimens	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Totals	---	---	---	---	(10) 178.6	(10) 146.7	(10) 127.6	(10) 82.14	(10) 78.45	---	(10) 150.96	---	---	(3) 37.10	(8) 60.20
Averages	---	---	---	---	17.86	14.67	12.76	---	---	---	16.00	---	---	12.37	7.53
Minima	---	---	---	---	17.1	14.2	12.1	77.49	74.01	---	14.83	---	---	11.9	7.3
Maxima	---	---	---	---	19.1	15.4	13.4	88.89	82.54	---	15.77	---	---	12.7	8.0

## SAMOYED-YURAK

1344(shaman)?	Leningrad Mus.	Turnchanski Krai	---	---	19.9	16.2	12.5	81.41	69.25	---	16.20	---	---	---	---
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## SIBERIA: SAMOYED—Continued

## MALES

Catalog No.	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxim.	Upper Alveolar Arch— Breadth maxim.	Upper Alveolar Arch— Index
974	13.2	96.21	57.58	10.7	9.2	10.2	65.0	46.5	3.5	3.5	3.85	3.85	90.91	90.91	5.3	2.5	47.17	5.7	6.4	89.06
129 <sup>2</sup>	14.0	—	52.14	10.1	8.8	9.8	66.0	49.0	3.2	3.2	3.55	3.55	90.14	90.14	5.15	2.65	51.46	5.5	7.0	78.57
4339	14.6	—	54.79	10.3	9.4	10.6	69.0	58.0	3.6	3.65	4.05	3.95	88.89	92.41	6.0	3.05	50.83	5.4	7.1	76.06
4348 <sup>3</sup>	13.8	—	—	—	8.6	9.0	71.0	60.0	3.15	3.35	4.0	3.9	78.75	85.90	4.8	2.9	60.42	—	—	—
50966	14.2	83.80	51.41	9.2	8.4	9.7	67.5	56.0	3.4	3.4	3.8	3.7	89.47	91.89	5.4	2.3	42.59	5.0	6.4	78.13
4344	13.4	—	54.48	9.5	8.5	9.5	65.0	59.5	3.4	3.3	3.8	3.7	89.47	91.89	5.2	2.7	51.92	5.3	6.5	81.34
4340	14.1	88.65	55.32	9.7	8.8	9.6	67.0	55.5	3.6	3.6	3.85	3.8	93.51	94.74	5.65	2.65	46.90	5.1	6.9	73.91
50652	13.5	—	54.81	9.3	8.3	9.3	67.0	55.5	3.35	3.4	3.8	3.7	88.16	91.89	5.3	2.2	41.51	5.3	6.6	80.30
4346 <sup>4</sup>	14.6	—	51.37	—	8.2	9.4	—	—	3.65	3.5	4.0	4.0	91.25	87.50	5.2	2.55	49.04	—	—	—
Prov. No. S-1 <sup>6</sup>	14.3	—	—	—	8.8	9.8	—	—	3.35	3.4	3.9	3.9	85.90	87.18	4.9	2.5	51.02	—	—	—
Specimens	(10)	(3)	(8)	(7)	(10)	(10)	(7)	(7)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(7)	(7)	(7)
Totals	139.7	—	—	68.80	87.0	96.9	470.5	384.5	34.20	34.30	38.60	38.05	88.60	90.14	52.90	26.0	49.16	37.3	46.90	—
Averages	13.97	89.40	53.94	9.83	8.7	9.69	67.21	54.93	3.42	3.43	3.86	3.81	88.60	90.14	5.29	2.60	49.16	5.33	6.70	79.53
Minima	13.2	83.80	51.37	9.2	8.2	9.0	65.0	46.5	3.15	3.2	3.55	3.55	78.75	85.90	4.8	2.2	41.51	5.0	6.4	73.91
Maxima	14.6	96.21	57.58	10.7	9.4	10.6	71.0	60.0	3.65	3.65	4.05	4.0	93.51	94.74	6.0	3.05	60.42	5.7	7.1	89.06

## SAMOYED—YURAK

1344 (shaman) <sup>7</sup>	14.6	—	—	—	—	10.5	—	—	3.35	—	4.2	—	79.76	—	—	—	—	—	—	—
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<sup>1</sup> Allowance made for wear of teeth, where needed.<sup>2</sup> Much like those from Yukagir Sopka.<sup>3</sup> Both upper median incisors lost long ago.<sup>4</sup> Near.<sup>5</sup> Both right and left upper median incisors lost long ago.<sup>6</sup> Much like an Aleut.<sup>7</sup> Pronounced type.



## SIBERIA: SAMOYED

## FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maximum (glabela ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
50061	Leningrad Mus.	Archangel'ski Krai.	-----	-----	18.2	14.2	12.4	78.02	76.54	-----	14.93	-----	-----	-----	6.9
1301	do.	Northwest Asia.	-----	-----	17.4	14.0	12.2	80.36	77.71	-----	14.53	-----	-----	11.5	7.1
50065	do.	Archangel'ski Krai.	-----	-----	17.2	14.1	11.8	81.78	75.40	-----	14.37	-----	-----	11.3	7.0
50063	do.	do.	-----	-----	16.8	13.8	12.2	82.14	79.74	-----	14.27	-----	-----	11.1	7.0
50064	do.	do.	-----	-----	17.2	14.2	13.0	82.56	82.80	-----	14.80	-----	-----	-----	7.1
4343	Moscow Mus.	do.	Mid-aged	-----	16.7	14.0	12.6	83.83	82.08	-----	14.43	-----	-----	-----	6.8
4342	do.	do.	25	-----	16.6	14.0	12.2	84.34	79.74	-----	14.27	-----	-----	-----	7.1
976	Leningrad Mus.	Yenisei.	-----	-----	17.2	15.0	12.8	87.21	79.50	-----	15.00	-----	-----	-----	6.8
Specimens	-----	-----	-----	-----	(8)	(8)	(8)	(8)	(8)	-----	(8)	-----	-----	(3)	(8)
Totals	-----	-----	-----	-----	137.3	113.3	99.2	-----	-----	-----	116.6	-----	-----	33.90	55.8
Averages	-----	-----	-----	-----	17.16	14.16	12.40	82.52	79.17	-----	14.58	-----	-----	11.30	6.98
Minima	-----	-----	-----	-----	16.6	13.8	11.8	78.02	75.40	-----	14.27	-----	-----	11.1	6.8
Maxima	-----	-----	-----	-----	18.2	15.0	13.0	87.21	82.80	-----	15.0	-----	-----	11.5	7.1



Catalog No.	Diarm. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Racial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxim.	Upper Alveolar Arch— Breadth maxim.	Upper Alveolar Arch— Index
50061	13.0	85.82	53.08	10.0	9.0	10.4	73.0	48.0	3.4	3.45	3.85	3.8	88.81	90.79	5.5	2.4	43.64	5.4	6.4	84.98
1301	13.4	86.52	52.99	10.0	8.8	10.0	69.5	47.5	3.5	3.4	3.9	3.7	89.74	91.89	5.3	2.55	43.11	4.8	5.7	84.21
50065	12.5	90.40	56.0	9.3	8.3	9.0	65.0	55.0	3.4	3.55	3.8	3.6	89.47	98.61	5.0	1.95	39.0	5.1	5.9	86.44
50063	13.1	84.73	53.44	10.1	9.0	9.8	67.0	51.0	3.25	3.3	3.7	3.6	87.84	91.67	5.1	2.3	45.10	5.0	6.3	79.37
50064	13.3	83.88	53.88	9.8	8.8	9.8	68.5	50.0	3.55	3.55	3.8	3.8	93.42	93.42	5.5	2.8	50.91	5.2	6.3	82.54
4343 <sup>1</sup>	13.2	85.52	51.52	9.2	8.9	9.9	70.5	57.5	3.1	3.0	3.7	3.65	83.78	82.19	5.1	2.65	51.96	5.0	6.3	76.92
4342	13.1	84.20	54.20	9.3	8.3	9.6	67.5	51.0	3.35	3.45	3.7	3.7	90.54	93.24	5.1	2.45	48.04	5.1	5.9	86.44
976	13.0	86.31	52.31	9.3	8.1	9.2	67.5	51.0	3.4	3.4	3.9	3.8	87.18	89.47	4.75	2.2	46.32	5.1	5.9	86.44
Specimens	(8)	(3)	(8)	(7)	(8)	(8)	(7)	(7)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(7)	(7)	(7)
Totals	104.6	86.92	53.95	67.70	63.20	77.7	481.0	360.0	25.95	27.10	30.35	29.65	88.80	91.40	41.35	19.30	46.67	35.60	43.0	82.79
Averages	13.08	84.73	51.52	9.67	8.65	9.71	68.71	51.43	3.37	3.39	3.79	3.71	89.78	92.19	5.17	2.41	39.0	5.09	6.14	76.92
Minima	12.5	90.40	56.0	9.2	8.1	9.0	65.0	47.50	3.1	3.0	3.7	3.6	83.42	88.61	4.75	1.95	39.0	4.8	5.7	76.92
Maxima	13.4	84.73	53.44	10.1	9.0	10.4	73.0	57.5	3.55	3.55	3.9	3.8	93.42	98.61	5.5	2.8	51.96	5.4	6.5	86.44

<sup>1</sup> Much like those from Yukagir Sopka.<sup>2</sup> Both upper median incisors lost long ago.<sup>3</sup> Near.



SIBERIA: OSTIAK  
MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maxim.)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
6913 <sup>2</sup>	Moscow Mus.	Little Ob River	Elderly	---	19.7	13.4	13.1	68.02	79.15	97.76	15.40	---	---	---	7.4
7027	do	do	35	---	20.0	14.0	12.9	70.0	76.88	92.14	15.63	---	---	---	7.7
7063 <sup>3</sup>	do	do	Elderly	---	19.6	14.0	14.0	71.43	83.33	100.0	15.87	---	---	---	7.1
7093	do	do	do	---	19.7	14.5	13.5	73.60	78.95	93.10	15.90	---	---	---	7.2
7087	do	do	25	---	18.2	13.4	12.4	73.63	78.48	92.64	14.67	---	---	---	7.2
134 <sup>4</sup>	do	do	do	---	18.4	13.7	12.4	74.46	77.26	90.51	14.83	---	---	---	6.4
6892 <sup>6</sup>	Leningrad Mus.	Kornyinski	Mid-aged	---	19.5	14.6	13.1	74.87	76.83	98.73	15.73	---	---	11.5	8.2
7088	Moscow Mus.	Little Ob River	Elderly	---	19.1	14.3	13.4	74.87	80.23	93.71	15.60	---	---	---	7.9
7153	do	do	40	---	18.3	13.8	12.4	75.41	77.26	89.86	14.83	---	---	13.0	7.9
7004	do	do	30	---	20.0	15.1	12.9	75.50	73.50	86.43	16.00	---	---	12.9	7.8
6980	do	do	Elderly	---	18.8	14.2	12.3	75.53	74.55	86.62	15.10	---	---	12.2	7.1
7141	do	do	40	---	18.8	14.2	12.8	75.53	77.58	90.14	15.27	---	---	11.9	7.1
6927	do	do	Elderly	---	19.4	14.7	12.3	75.77	72.14	83.67	15.47	---	---	---	7.8
6992	do	do	Old	---	19.0	14.4	13.0	75.79	77.84	90.28	15.47	---	---	13.2	7.8
7112	do	do	40	---	19.0	14.4	12.4	75.79	77.84	90.28	15.47	---	---	---	7.0
7066 <sup>7</sup>	do	do	Elderly	---	18.7	14.2	12.8	75.94	77.81	90.11	15.23	---	---	---	7.4
7092	do	do	do	---	18.4	14.0	12.6	76.11	79.50	91.97	14.77	---	---	---	7.6
6944	do	do	do	---	18.0	13.7	12.6	76.14	76.08	88.0	15.97	---	---	---	8.2
6959 <sup>8</sup>	do	do	Mid-aged	---	19.7	15.0	13.2	76.14	76.08	88.0	15.97	---	---	---	7.1
7083	do	do	40	---	18.5	14.2	13.2	76.76	80.73	92.96	15.30	---	---	---	7.6
7101 <sup>9</sup>	do	do	24	---	18.2	14.0	13.3	76.92	82.61	95.0	15.17	---	---	12.6	7.6
7129	do	do	30	---	18.2	14.0	12.5	76.92	77.64	89.29	14.90	---	---	---	7.9
7125	do	do	Mid-aged	---	18.2	14.0	13.3	76.92	82.61	95.0	15.17	---	---	---	7.6
7017	do	do	do	---	17.8	13.7	12.3	76.97	78.10	89.78	14.60	---	---	---	7.6
7205	do	do	35	---	18.7	14.4	12.6	77.01	76.13	87.50	15.23	---	---	---	8.2
51914 <sup>10</sup>	Leningrad Mus.	do	do	---	17.9	13.8	13.2	77.09	83.28	95.65	14.97	---	---	---	7.4
7078	Moscow Mus.	do	do	---	18.4	14.2	12.6	77.17	77.30	88.73	15.07	---	---	---	7.0
7173	do	do	40	---	19.3	14.9	13.8	77.20	80.70	92.62	16.00	---	---	---	7.9
6932	do	do	35	---	18.0	13.9	12.4	77.22	77.74	89.21	14.77	---	---	---	8.2
6910	do	do	Old	---	18.6	14.4	12.6	77.49	76.36	87.50	15.20	---	---	---	7.5
7062	Moscow Mus.	do	Elderly	---	17.8	13.8	12.8	77.53	81.01	92.75	14.80	---	---	---	7.7
7086	do	do	Mid-aged	---	18.4	14.3	12.3	77.53	86.71	93.28	15.10	---	---	12.3	7.7
7134 <sup>11</sup>	do	do	do	---	18.4	14.3	12.3	77.72	75.23	86.01	15.00	---	---	---	7.9
7174	do	do	35	---	18.4	14.3	12.7	77.72	77.68	88.81	15.13	---	---	---	7.8
6946	do	do	Elderly	---	19.3	15.0	12.9	77.72	75.22	86.0	15.03	---	---	---	7.3
7118	do	do	do	---	17.7	13.8	12.2	77.84	74.16	84.73	15.03	---	---	---	7.3
	do	do	do	---	17.7	13.8	12.7	77.87	80.63	92.03	14.73	---	---	12.0	7.3



7055	do	do	Mid-aged	18.2	14.2	12.2	78.02	75.51	85.92	14.87	7.7
7079	do	do	40	18.2	14.2	12.3	78.02	75.93	86.62	14.90	7.8
7095	do	do	Mid-aged	18.2	14.2	12.6	78.02	77.78	88.73	15.00	7.7
7096 12	do	do	do	18.2	14.2	12.6	78.02	77.78	88.73	15.00	7.5
7195	do	do	do	19.2	15.0	13.6	78.13	79.53	90.67	15.93	7.9
Leningrad Mus	do	do	do	18.9	14.8	13.6	78.31	80.71	91.89	16.77	
51903	do	do	Elderly	19.4	15.2	14.1	78.55	86.83	92.76	16.23	7.0
136 13	do	do	Old	18.7	14.7	13.0	78.61	77.84	88.44	15.47	7.8
6874	do	do	40	18.0	14.5	12.9	78.80	73.42	87.92	15.27	8.1
6914	do	do	35	18.0	14.2	12.4	78.89	77.02	87.92	14.87	7.2
7186 14	do	do	do	19.0	15.0	11.8	78.96	69.41	78.67	15.27	7.5
6976	do	do	30	18.2	14.4	12.8	79.12	78.53	88.89	15.13	6.9
7107	do	do	do	18.7	14.8	12.9	79.14	77.01	87.16	15.47	7.5
6877	do	do	Mid-aged	18.8	14.9	12.9	79.36	76.66	86.58	15.53	7.9
6397	do	do	70	18.4	14.7	13.4	79.89	80.97	91.16	15.50	
6875 15	do	do	Elderly	18.4	14.7	14.5	79.89	87.61	98.63	15.87	
7132 16	do	do	Mid-aged	18.4	14.7	12.8	79.89	77.34	87.07	15.30	8.4
7156	do	do	Elderly	18.9	15.1	12.8	79.89	75.30	84.77	15.60	7.7
7194 17	do	do	do	18.0	14.4	12.7	80.0	78.40	88.19	15.03	7.2
55521	do	do	40	18.0	14.4	11.8	80.0	72.84	81.94	14.73	
7177	do	do	35	18.1	14.5	13.2	80.11	80.98	91.03	15.27	
7090	do	do	50	18.2	15.1	13.2	80.32	79.88	89.73	15.30	7.2
7161 18	do	do	Elderly	18.8	14.6	13.1	80.32	74.28	87.42	15.70	7.9
6953 19	do	do	Elderly	17.8	14.3	12.4	80.54	77.26	86.71	14.83	7.7
7199	do	do	35	18.4	14.8	12.6	80.43	75.90	85.14	15.27	7.4
6947	do	do	Mid-aged	18.4	14.8	12.6	80.43	75.90	85.14	15.27	7.5
6894	do	do	do	17.9	14.4	11.8	80.45	79.88	89.58	15.07	
6958 20	do	do	35	17.9	14.4	11.8	80.45	75.07	81.94	14.70	7.1
7147 21	do	do	19	17.5	14.1	12.8	80.57	81.01	90.78	14.80	11.6
6963 22	do	do	Mid-aged	18.6	15.0	12.1	80.65	72.02	80.67	15.23	7.8
7117	do	do	30	17.1	13.8	13.0	80.70	84.14	94.20	14.63	7.5
7182 23	do	do	Mid-aged	18.3	14.8	13.0	80.87	78.65	87.84	15.37	7.9
7041 24	do	do	do	18.4	14.9	13.5	80.98	81.08	90.60	15.60	7.4
7122	do	do	30	18.4	14.6	12.4	81.11	76.07	84.93	15.00	11.8
Leningrad Mus	do	do	Stekuri River	18.0	14.6	12.4	81.11	76.07	84.93	15.00	7.0
966	do	do	do	17.6	14.3	12.5	81.26	78.37	87.41	14.80	7.1
965	do	do	do	18.9	15.4	13.7	81.48	79.88	88.96	16.00	7.5
6981	do	do	30	18.4	15.0	12.6	81.52	75.45	84.00	15.33	7.7
7124	do	do	Mid-aged	18.6	15.2	13.0	81.72	81.25	85.53	15.60	7.5
7039 25	do	do	45	18.2	14.9	12.8	81.87	77.34	85.91	15.30	8.0
7104	do	do	Elderly	18.2	15.0	13.0	82.42	78.31	86.67	15.40	7.6
6891	do	do	35	17.4	14.4	13.6	82.76	85.53	94.44	15.13	7.2
7126	do	do	do	18.0	14.9	12.9	82.78	78.42	86.58	15.27	7.2
7156	do	do	40	17.6	14.6	13.7	82.96	85.09	93.84	15.30	7.0
7127	do	do	do	17.6	14.6	13.0	82.95	80.75	89.04	15.07	12.0
7176 26	do	do	Mid-aged	17.7	14.7	13.7	83.06	84.67	89.20	15.37	11.9
7209 27	do	do	40	18.3	15.2	13.0	83.06	77.61	85.53	15.50	7.6
7119 28	do	do	30	18.2	15.2	13.1	83.52	78.44	86.18	15.50	7.8
6938	do	do	Elderly	17.1	14.3	13.2	83.63	84.08	92.31	14.87	8.2
7211	do	do	Mid-aged	17.8	14.9	12.6	83.71	77.06	84.56	15.10	
2733	do	do	do	18.6	15.6	12.8	83.87	74.86	82.05	15.67	7.8
Leningrad Mus	do	do	Ket River	18.0	15.1	13.3	83.89	80.96	88.08	15.47	8.0
7006	do	do	Little Ob River	17.6	14.8	12.6	84.09	77.78	85.14	15.00	7.5
7046	do	do	do	17.6	14.8	13.2	84.09	81.48	89.19	15.23	7.8
6808	do	do	do	17.6	14.8	13.2	84.09	81.48	89.19	15.23	
8899	do	do	do	17.6	14.8	13.2	84.09	81.48	89.19	15.23	

See footnotes at end of table.



## SIBERIA: OSTIAK—Continued

## MALES—Continued

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) 1	Alveol. Pt.-Nasion Height (b)
7154 29	Moscow Mus.	Little Ob River.	40	---	17.2	14.6	12.4	84.88	77.99	84.93	14.73	---	---	12.0	87.3
7037 30	do.	do.	Mid-aged	---	17.4	14.8	12.0	85.06	74.53	81.08	14.73	---	---	---	7.8
7164 31	do.	do.	do.	---	17.6	15.0	12.4	85.23	76.07	82.67	15.00	---	---	12.4	7.7
6998	do.	do.	40	---	17.3	14.8	12.8	85.55	79.75	86.49	14.97	---	---	---	8.4
6896	do.	do.	Mid-aged	---	18.2	15.6	12.9	85.71	76.93	82.69	15.57	---	---	---	7.5
7183	do.	do.	35	---	17.3	14.9	12.6	86.13	78.26	84.56	14.93	---	---	---	7.7
7059	do.	do.	Mid-aged	---	17.8	15.4	12.6	86.52	75.90	81.82	15.27	---	---	---	---
7036	do.	do.	Old	---	17.0	14.9	11.0	87.65	68.97	73.83	14.30	---	---	---	7.1
7139	do.	do.	30	---	17.3	15.2	12.8	87.86	78.77	84.21	15.10	---	---	---	7.6
7061	do.	do.	Mid-aged	---	17.2	15.4	12.8	89.53	78.53	83.12	15.13	---	---	---	---
Specimens					(99)	(99)	(99)	(99)	(99)	(99)	(99)			(20)	(90)
Totals					1813.1	1414.2	1271.0	---	---	---	1,508.23	---	---	243.30	681.9
Averages					18.31	14.28	12.84	78.00	78.77	89.87	15.16	---	---	12.17	7.57
Minima					17.0	13.4	11.0	68.02	68.97	73.83	14.30	---	---	11.2	6.4
Maxima					20.0	15.6	14.1	89.53	86.88	100.00	16.23	---	---	13.2	8.4
OSTIAK-SAMOYED															
1340 32	Leningrad Mus.	Surnshanski Krai	---	---	17.8	15.3	12.1	85.96	73.11	---	15.07	---	---	12.7	7.7
DOLGAN															
46144 33	Leningrad Mus.	Northern Yenisei	---	---	17.9	14.8	12.7	82.68	77.63	---	15.13	---	---	12.2	7.3



Catalog No.

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{b}\right)$	Facial Index, upper $\left(\frac{c}{b \times 100}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. lin.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
6913 <sup>2</sup>	14.3	---	51.74	10.4	9.2	10.2	67.5	50.5	3.5	3.6	4.1	4.1	85.37	87.80	5.35	2.85	53.27	5.3	6.7	79.10
7027	14.2	---	64.23	10.3	9.0	10.4	69.0	50.0	3.6	3.65	4.1	4.1	87.80	89.02	5.6	2.9	51.79	5.3	6.7	75.68
7063 <sup>3</sup>	15.2	---	53.29	11.1	10.0	11.0	68.0	54.5	4.0	4.0	4.2	4.15	95.24	96.39	6.0	2.5	41.67	6.0	7.0	85.71
7093	13.8	---	52.17	11.1	10.0	10.6	67.0	54.0	3.3	3.25	3.8	3.8	86.84	85.53	5.2	2.6	50.0	5.8	7.1	81.69
7087	13.3	---	64.14	9.8	8.8	9.8	68.5	54.0	3.5	3.5	3.7	3.95	94.59	92.11	4.8	2.25	42.45	5.4	6.5	83.08
134 <sup>4</sup>	13.5	---	47.41	10.0	8.8	9.8	69.5	54.0	3.3	3.3	3.95	3.6	83.54	82.50	5.3	2.4	50.00	---	---	---
6892 <sup>6</sup>	13.9	---	58.99	10.8	9.4	10.0	61.5	51.5	3.1	3.2	3.6	3.5	86.11	91.43	5.6	2.4	42.86	6.0	6.8	88.24
7088	14.6	---	64.11	10.7	9.7	10.5	67.0	57.0	3.75	3.75	4.2	4.1	89.29	91.46	5.65	2.35	41.59	5.7	6.8	83.82
7153	13.5	---	58.52	10.4	9.2	10.2	66.0	50.5	3.35	3.5	4.0	3.85	83.75	90.91	5.9	2.7	45.76	5.6	6.1	91.80
7004	14.9	---	62.56	10.7	9.8	11.2	72.5	61.5	3.9	3.9	4.3	4.3	80.70	90.70	5.45	2.55	46.79	5.7	6.9	82.61
6980	13.9	---	87.77	50.43	10.1	9.6	65.0	50.0	3.4	3.55	4.35	4.3	78.16	82.56	4.9	2.5	51.02	5.5	6.4	85.94
7141	14.3	---	49.02	10.2	9.2	9.8	66.5	54.0	3.15	3.35	4.0	3.9	78.75	85.90	5.2	2.3	44.23	5.4	6.5	83.08
6927	15.1	---	61.66	11.0	9.6	10.2	63.0	46.0	3.5	3.5	4.05	4.0	86.42	87.50	5.7	3.0	52.63	6.0	7.4	81.08
6992	14.6	---	53.42	10.3	9.3	10.6	70.0	56.5	4.0	3.95	4.2	4.2	95.23	94.05	5.7	2.9	50.88	5.5	7.0	78.58
7112	13.6	---	51.47	11.2	10.0	10.3	64.0	46.5	3.8	3.4	4.1	3.95	81.70	86.08	5.25	2.8	53.53	6.0	6.7	89.55
7066 <sup>7</sup>	14.2	---	---	---	---	10.0	---	---	3.5	3.75	4.1	4.3	79.17	87.21	5.0	2.65	53.0	---	---	---
7092	13.3	---	55.64	12.1	10.4	10.6	60.0	39.0	3.5	3.5	4.1	4.1	85.97	85.37	5.3	2.85	53.77	6.6	6.5	101.54
6944	14.0	---	54.29	10.7	9.8	10.3	66.0	63.0	3.6	3.4	4.0	4.1	90.00	85.18	5.5	2.65	53.0	5.6	7.0	80.0
6959 <sup>8</sup>	14.3	---	57.34	11.2	10.0	10.3	61.5	57.0	3.45	3.4	3.9	3.9	88.46	87.18	5.5	2.6	47.27	6.2	7.0	88.57
7083	14.1	---	50.35	10.2	9.4	10.2	70.0	54.0	3.55	3.5	4.0	4.0	88.75	87.50	5.6	2.5	44.64	5.7	6.6	86.93
7101 <sup>9</sup>	14.0	---	54.29	10.5	9.5	10.3	67.0	58.0	3.2	3.3	4.1	4.1	78.05	80.49	5.35	2.6	48.33	5.6	6.4	87.50
7129	14.0	---	66.43	11.2	9.8	10.8	66.0	50.5	3.7	3.7	3.75	3.75	98.67	98.67	5.5	2.35	42.73	6.0	6.3	95.24
7125	13.3	---	57.14	9.4	8.3	9.8	69.5	52.0	3.1	3.55	4.1	4.35	75.61	87.65	5.7	2.3	40.55	5.4	6.3	85.71
7017	14.5	---	56.55	10.9	10.0	10.6	65.5	63.0	3.6	3.55	4.1	4.1	87.80	86.59	5.5	2.75	50.0	6.0	6.6	90.91
7205	13.4	---	65.22	10.6	9.4	10.1	65.5	54.0	3.6	3.6	4.05	3.9	88.89	92.31	5.05	2.2	43.56	5.0	7.1	77.46
51914 <sup>10</sup>	13.6	---	51.47	9.9	8.9	10.0	70.0	52.5	3.3	3.25	3.75	3.65	88.00	89.04	5.25	2.35	44.76	5.0	6.3	79.57
7078	14.6	---	66.16	10.5	9.6	10.7	68.5	62.5	3.4	3.4	4.0	4.0	85.0	85.0	5.5	2.35	42.73	5.5	6.5	84.62
7173	13.4	---	58.96	9.6	8.4	9.9	68.0	54.0	3.65	3.6	3.9	3.85	93.59	93.51	5.5	2.3	41.82	5.4	6.3	85.71
6932	14.5	---	51.72	10.6	9.5	10.4	67.5	58.0	3.4	3.45	4.2	4.3	80.95	80.23	5.0	2.5	50.0	5.8	6.1	95.08
6910	13.3	---	60.15	10.4	9.4	10.6	69.0	60.0	3.5	3.7	4.2	3.9	83.33	92.31	5.45	2.8	51.38	5.5	6.1	90.16
7062	13.5	---	67.04	10.7	9.1	10.0	63.0	46.0	3.55	3.6	4.0	3.95	88.75	92.31	5.45	2.4	43.81	6.1	6.3	96.83
7080	14.2	---	53.52	10.0	9.0	10.0	67.5	56.0	3.85	3.9	4.15	3.95	92.77	98.73	5.25	2.4	44.04	5.6	6.7	83.58
7134 <sup>11</sup>	13.7	---	57.66	11.1	9.5	10.4	63.5	47.5	3.6	3.6	4.0	3.9	88.75	92.31	5.45	2.8	51.85	6.1	7.2	84.72
7174	14.7	---	53.06	11.1	10.0	11.2	70.0	54.5	3.3	3.25	3.95	4.05	83.54	80.35	5.7	2.85	50.00	5.9	7.2	81.94
6946	14.1	---	51.77	10.7	9.7	10.2	66.0	55.0	3.75	3.75	4.1	4.1	91.46	91.46	5.3	2.6	49.06	5.7	6.7	85.07
7118	13.3	---	64.89	10.5	9.2	10.1	66.5	48.5	3.6	3.6	3.9	3.9	92.91	92.91	5.25	2.45	46.67	5.6	6.1	91.80
7055	14.0	---	55.00	9.5	8.5	9.8	68.5	56.0	3.6	3.6	4.1	4.0	87.80	90.00	5.6	2.4	42.86	5.5	6.4	85.94
7079	13.9	---	56.12	10.2	9.1	10.0	65.5	54.5	3.85	3.95	4.3	4.1	85.53	96.34	5.55	2.8	50.45	5.6	6.6	84.85
7095	13.9	---	55.40	10.8	9.8	10.4	65.5	56.0	3.75	3.85	4.4	4.2	85.23	91.67	5.6	2.3	41.07	5.7	6.5	87.69
7096 <sup>12</sup>	13.9	---	53.96	10.8	9.3	10.2	65.5	56.0	3.7	3.85	4.4	4.0	92.50	91.67	5.45	2.3	42.20	5.2	6.6	78.79

See footnotes at end of table.



SIBERIA: OSTIAK—Continued  
MALES—Continued

Catalog No.	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxim.	Upper Alveolar Arch— Breadth maxim.	Upper Alveolar Arch— Index
7195	14.4	54.86	54.86	10.2	9.4	10.8	72.0	62.0	3.8	3.75	3.9	3.9	97.44	96.15	5.8	2.9	44.83	5.5	6.5	84.62
51903	14.5					10.6			3.4	3.35	4.0	4.0	80.95	85.00	5.6	2.7	48.21			
136 12	14.9	46.98	46.98	10.3	9.4	10.2	68.5	57.5	3.45	3.35	4.2	4.2	77.91	79.76	5.2	2.9	55.77	5.6	6.5	86.15
6874	14.2	55.10	55.10	10.7	9.5	10.6	67.0	55.0	3.5	3.55	3.9	3.9	87.34	91.03	5.6	2.6	46.45	5.7	7.3	78.08
6914	14.7	52.94	52.94	9.3	8.0	9.0	64.5	48.0	3.5	3.5	4.2	4.2	84.52	86.90	5.7	2.7	47.37	5.3	6.5	81.54
7186 14	13.6	53.57	53.57	10.7	9.5	10.2	65.5	48.5	3.2	3.35	3.8	3.8	92.11	92.11	5.1	2.3	45.10	5.7	6.5	87.69
6976	14.0	49.64	49.64	9.5	8.6	10.0	73.0	55.5	3.4	3.4	4.0	4.0	83.12	83.75	5.2	2.3	41.07	5.4	6.3	85.71
7107	13.9	53.96	53.96	10.1	9.4	10.8	74.0	64.0	3.2	3.6	3.9	3.8	82.05	86.84	5.6	2.65	47.32	5.5	6.8	80.88
6877	13.9	52.67	52.67	10.1	9.4	10.2	67.5	53.5	3.6	3.45	4.0	4.0	94.74	90.00	5.6	2.55	45.54	5.6	6.5	86.15
6897	15.0					10.6			3.6	3.55	3.9	3.9	88.46	88.46	5.4	2.7	50.00			
6875 15	14.4					10.6			3.6	3.55	3.9	3.9	90.00	91.03	5.4	2.7	50.00			
7132 16	14.1	57.14	57.14	10.2	9.0	11.0	65.5	55.5	3.8	3.55	4.0	4.0	96.00	97.44	5.85	2.65	45.30	5.5	6.7	82.00
7156	14.7	49.66	49.66	9.8	10.3	10.7	69.0	57.0	3.3	3.4	4.0	4.0	82.50	85.00	5.2	2.4	46.15	5.8	6.8	85.29
7194 17	13.1	58.78	58.78	10.8	8.8	10.1	64.0	55.0	3.5	3.4	4.1	4.1	83.33	82.93	5.45	2.45	44.95	5.7	6.5	87.69
55321	14.1	51.06	51.06	10.8	9.2	10.2	64.0	55.0	2.7	3.4	3.8	3.8	83.54	89.47	5.2	2.4	46.15	5.7	6.5	87.69
7177		82.27							3.3	3.4	4.1	4.1	85.85	89.47	5.0	2.3	46.00			
7090									3.65	3.75	4.15	4.15	84.52	87.95	5.1	2.3	45.10	5.5	6.7	82.09
7161 18	14.4	50.00	50.00	10.3	9.2	10.1	68.0	53.5	3.55	3.55	3.9	3.9	84.52	86.90	5.65	2.65	46.90	6.1	7.3	83.56
6953 19	14.4	54.86	54.86	10.9	9.8	10.4	65.0	55.5	3.3	3.35	3.7	3.7	89.19	87.84	5.35	2.4	44.86	5.2	6.2	79.73
7199	13.2	58.23	58.23	9.9	8.8	9.7	65.5	56.0	3.3	3.25	4.1	4.1	82.86	82.93	5.35	2.6	48.60	5.9	7.4	93.22
6947	14.7	50.34	50.34	10.7	9.6	10.4	67.0	53.0	3.5	3.4	4.2	4.2	87.50	92.31	5.45	2.75	50.46	5.5	6.5	84.62
6894	13.7	54.74	54.74	9.9	8.8	9.8	67.0	53.5	3.5	3.4	4.1	4.1	87.50	92.31	5.45	2.75	50.46	5.5	6.5	84.62
6958 10	14.3					10.2			3.3	3.4	4.2	4.2	78.57	82.93	5.7	2.75	48.25	5.4	6.7	80.60
7147 21	13.8	51.45	51.45	10.1	9.4	9.8	67.0	54.0	3.65	3.75	3.85	3.85	94.81	95.68	5.1	2.6	50.98	5.3	6.9	76.81
6963 22	13.2	53.79	53.79	9.5	8.7	9.8	71.0	60.5	3.55	3.5	3.65	3.65	92.21	95.89	5.6	2.5	44.64	6.0	6.6	90.91
7117	14.0	55.71	55.71	10.8	9.2	9.8	61.0	39.0	3.7	3.7	4.1	4.1	87.06	90.24	5.15	2.5	46.49	5.7	6.8	86.76
7182 23	13.6	55.15	55.15	10.5	9.4	10.2	66.5	56.5	3.5	3.8	3.9	3.9	87.50	97.44	5.5	2.6	47.27	5.9	6.8	88.89
7041 24	14.9	53.02	53.02	11.4	10.1	10.8	65.0	53.0	3.45	3.55	4.2	4.2	80.23	84.52	5.4	2.5	46.30	5.6	6.3	88.89
7122	14.6	50.68	50.68	10.2	9.2	10.4	70.5	56.0	3.5	3.4	3.9	3.9	89.74	89.47	5.2	2.4	46.15	5.6	6.3	88.89
966	13.1	53.44	53.44	10.5	8.9	9.8	64.5	37.5	3.4	3.45	3.7	3.7	89.47	93.24	5.25	2.4	46.15	5.6	6.3	88.89
965	14.1	50.35	50.35	10.2	8.8	9.8	65.0	42.5	3.2	3.4	3.6	3.6	86.49	94.44	5.25	2.65	50.48	5.4	6.3	87.82
6981	14.3	52.45	52.45	10.1	9.2	10.6	72.0	60.0	3.5	3.45	4.0	4.0	88.75	88.46	5.2	2.4	46.15	5.4	6.6	91.30
7124	14.9	51.67	51.67	11.6	10.1	10.6	63.0	45.5	3.5	3.4	4.2	4.2	79.55	80.95	5.5	2.8	50.91	5.6	6.9	81.16
7039 25	14.4	52.08	52.08	10.7	9.6	10.5	68.0	53.0	3.55	3.55	3.85	3.85	92.21	97.20	5.55	2.75	50.00	5.6	6.9	81.16
7104	14.1	56.74	56.74	10.5	9.4	10.2	65.0	58.0	3.4	3.5	3.7	3.7	91.39	97.20	5.4	2.5	45.05	5.6	6.2	80.32
6891	14.2	53.52	53.52	10.8	9.7	10.0	63.0	55.0	3.2	3.3	3.8	3.8	81.01	86.84	5.4	2.8	51.85	6.2	7.0	88.67
7126	13.9	51.80	51.80	10.8	9.6	10.4	67.5	53.5	3.5	3.4	3.95	3.95	88.75	88.61	5.2	2.6	50.00	5.6	6.8	88.67
7156	14.3	50.56	50.56	10.2	9.0	9.9	67.0	50.0	3.55	3.5	4.0	4.0	88.75	88.61	5.2	2.6	50.00	5.6	6.5	88.67
7127	14.2	49.30	49.30	10.0	8.8	9.8	67.5	49.0	3.2	3.15	3.9	3.9	80.77	84.21	5.05	3.05	60.40	5.5	6.5	84.62
7176 26	13.9	50.56	50.56	10.2	9.1	10.2	70.0	53.0	3.2	3.25	3.9	3.9	80.00	83.34	5.0	2.4	48.00	5.7	6.8	83.82
		85.61							3.45	3.3	4.0	4.0	86.85	86.84	5.3	2.3	43.40	6.1	6.5	93.86



	7119 <sup>25</sup>	6938	7211	2733	7006	7046	6898	6899	7154 <sup>29</sup>	7037 <sup>30</sup>	7164 <sup>31</sup>	6998	6896	7183	7059	7036	7139	7061	
	13.9	14.7	14.2	14.1	14.2	14.1	13.4	13.9	14.2	13.5	14.6	14.3	14.7	14.3	14.1	14.2	14.5	14.3	
	55.40	53.06	57.75	56.34	56.94	55.32	55.97	56.12	54.07	58.89	53.42	56.71	57.14	52.45	54.61	48.97	53.15		
	10.8	10.7	10.8	11.3	10.4	10.6	10.1	10.6	9.5	9.5	10.4	10.3	10.3	10.0	10.2	10.3	9.6		
	9.6	9.4	9.4	8.8	10.4	8.8	9.1	9.4	8.6	8.6	9.4	9.2	9.2	9.0	9.0	7.8	9.4	8.5	
	10.7	10.4	10.0	64.0	64.0	68.5	68.5	64.0	68.0	68.0	68.0	63.5	65.5	67.0	63.0	68.0	67.0		
	68.5	66.0	61.5	62.0	62.0	53.5	55.0	55.5	57.0	58.0	58.0	57.0	57.0	55.0	55.0	57.0	54.0		
	49.5	49.0	51.5	3.55	3.55	3.6	3.6	3.5	3.4	3.5	3.5	3.55	3.7	3.65	3.5	3.4	3.5		
	3.65	3.65	3.3	3.55	3.55	3.7	3.65	3.45	3.4	3.4	3.5	3.45	3.7	3.8	3.5	3.45	3.5		
	3.75	3.65	3.9	4.1	4.1	4.1	3.6	4.0	3.85	3.75	3.9	4.1	3.7	3.85	3.75	3.9	3.8		
	4.1	4.2	3.9	4.1	4.1	4.1	3.6	3.9	3.85	3.75	3.9	4.1	3.7	3.85	3.75	3.9	3.8		
	4.0	3.8	3.8	3.9	3.9	3.6	3.6	3.9	3.65	3.65	3.9	4.0	3.7	3.9	3.7	3.9	3.7		
	89.02	86.90	84.02	86.59	92.08	90.24	101.58	87.50	88.31	89.74	89.74	86.59	93.10	91.25	93.23	85.00	88.46	92.11	
	98.75	91.25	86.84	92.11	90.03	90.24	101.58	88.46	89.67	89.74	89.74	86.59	93.10	91.25	93.23	85.00	88.46	92.11	
	5.85	5.7	5.6	5.55	5.6	5.5	5.5	5.3	5.2	5.3	5.5	5.25	6.0	5.5	5.15	5.28	5.4		
	2.65	2.5	2.5	2.35	2.35	2.8	2.4	2.6	2.5	2.5	2.5	2.3	2.7	2.35	2.55	2.5	2.2		
	45.30	43.86	44.64	41.96	41.96	50.91	43.64	49.06	48.08	47.17	45.45	43.81	45.09	42.73	49.51	47.62	40.74		
	5.5	5.9	5.9	5.8	5.8	5.4	5.6	5.9	5.6	5.1	5.7	5.9	5.3	5.3	5.6	5.5	5.2		
	6.5	7.1	6.4	6.9	6.9	6.6	6.4	7.1	6.8	6.2	6.7	7.0	6.6	6.0	6.7	6.8	6.9		
	84.62	83.10	83.75	81.03	81.03	81.82	87.50	83.10	82.35	82.26	85.07	84.29	80.90	88.33	83.58	80.88	75.26		

## OSTIAK—SAMOYED

1340 <sup>32</sup>	14.7	86.59	52.38	9.0	7.8	8.8	63.0	46.5	3.85	4.3	4.2	89.53	91.67	5.9	2.65	44.92	5.4	6.5	83.08
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## DOLGAN

46144 <sup>33</sup>	14.6	83.56	50.0	10.2	9.4	10.0	67.0	61.5	3.5	4.1	4.0	85.37	87.50	5.25	2.4	45.71	5.5	6.5	84.62
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<sup>1</sup> Allowance made for wear of teeth, where needed.

<sup>2</sup> Maxillary lingual hyperostoses, both sides of last molars (M<sub>3</sub>).

<sup>3</sup> Eskimoid; atypical—place apart.

<sup>4</sup> All upper incisors lost long ago.

<sup>5</sup> Near.

<sup>6</sup> External maxillary hyperostoses, canines to end.

<sup>7</sup> Right upper lateral, and both left upper incisors lost long ago.

<sup>8</sup> Very massive; pronounced maxillary lingual hyperostoses in molar region, on both sides.

<sup>9</sup> Labial maxillary and lingual mandibular hyperostoses.

<sup>10</sup> Left upper median incisor lost long ago.

<sup>11</sup> Labial maxillary hyperostoses.

<sup>12</sup> Right upper median incisor lost long ago.

<sup>13</sup> Massive; both upper median incisors lost long ago.

<sup>14</sup> Metopic sutures.

<sup>15</sup> Both median and lateral upper incisors lost long ago.

<sup>16</sup> Both right upper, and left median upper incisors lost long ago.

<sup>17</sup> Both right and left median upper incisors, and lower left median incisor lost long ago.

<sup>18</sup> Both lower median incisors lost long ago.

<sup>19</sup> Maxillary lingual hyperostoses on both sides of last two molars.

<sup>20</sup> Vault and face syphilitic.

<sup>21</sup> Somewhat ♀-like, but ♂.

<sup>22</sup> Measurements (some) still somewhat less than adult.

<sup>23</sup> Somewhat weak, but ♂.

<sup>24</sup> Right upper median incisor lost long ago.

<sup>25</sup> Left upper lateral incisor lost long ago.

<sup>26</sup> Left upper median incisor lost long ago.

<sup>27</sup> Left upper incisors lost long ago.

<sup>28</sup> Maxillary lingual hyperostoses on right side, molar region; on mandible, bilateral.

<sup>29</sup> Incisors, lower jaw, lost long ago.

<sup>30</sup> Right upper median incisor lost long ago.

<sup>31</sup> Left upper incisors lost long ago; also lower left lateral incisor.

<sup>32</sup> Somewhat ♀-like.

<sup>33</sup> Much like Samoyed and Yukagirskaja Sopka crania (also close to Aleuts and Athapascans).

<sup>34</sup> Much like an Athapascan; like a Siber-Samoyed (or Ostiak).



SIBERIA: OSTIAK  
FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
7135	Moscow Mus.	Little Ob River	40	---	17.8	13.0	12.8	73.03	83.12	98.46	14.53	---	---	11.6	7.2
6967	do	do	Elderly	---	18.3	13.4	12.4	73.22	78.23	92.54	14.70	---	---	---	6.4
6985	do	do	30	---	18.8	13.8	12.2	73.40	74.85	88.41	14.93	---	---	---	7.4
135	Leningrad Mus.	Koingski	---	---	18.6	13.7	12.8	73.66	74.49	93.43	15.03	---	---	---	7.8
7044	Moscow Mus.	Little Ob River	Old	---	18.6	13.7	12.4	73.66	76.78	90.51	14.90	---	---	---	6.9
6961	do	do	40	---	17.8	13.2	12.5	74.16	80.65	94.70	14.50	---	---	---	7.0
7039	do	do	35	---	17.8	13.2	13.0	74.16	83.87	98.48	14.67	---	---	---	6.8
6893 <sup>3</sup>	do	do	Elderly	---	18.4	13.8	11.8	75.0	73.29	85.51	14.67	---	---	---	7.3
6995	do	do	40	---	16.9	12.7	12.0	75.15	81.08	94.49	13.87	---	---	---	6.8
7070 <sup>4</sup>	do	do	Old	---	17.8	13.4	12.6	75.28	80.77	94.03	14.60	---	---	---	6.8
5592-5	Leningrad Mus.	do	---	---	18.3	13.8	13.2	75.41	82.24	95.65	15.10	---	---	10.8	6.7
7189	Moscow Mus.	do	30	---	17.2	13.0	12.7	75.58	84.11	97.09	14.30	---	---	---	6.7
7011	do	do	Aged	---	18.7	14.2	12.0	75.94	72.95	84.51	14.97	---	---	---	7.0
6900	do	do	Elderly	---	18.4	14.0	12.2	76.09	74.17	87.14	14.87	---	---	11.2	7.0
7023	do	do	35	---	17.6	13.4	12.2	76.14	78.71	91.04	14.40	---	---	---	7.0
7113	do	do	45	---	17.8	13.6	12.4	76.40	78.98	91.18	14.60	---	---	---	7.2
6886	do	do	Old	---	18.0	13.8	11.6	76.67	72.96	84.06	14.47	---	---	---	7.2
6969	do	do	50	---	17.9	13.8	12.4	77.09	78.23	89.86	14.70	---	---	---	7.3
6890	do	do	35	---	17.5	13.5	12.8	77.14	82.58	94.81	14.60	---	---	---	7.0
7131 <sup>5</sup>	do	do	Elderly	---	18.4	14.2	13.1	77.17	80.37	92.25	15.23	---	---	---	7.8
7013	do	do	40	---	18.0	13.9	12.8	77.22	80.25	92.09	14.90	---	---	---	7.4
6978	do	do	45	---	18.1	14.0	12.9	77.35	80.37	92.14	15.00	---	---	---	7.3
6887 <sup>6</sup>	do	do	Elderly	---	17.8	13.8	12.8	77.53	81.01	92.75	14.80	---	---	---	7.6
6965	do	do	do	---	17.5	13.6	11.8	77.71	75.88	86.76	14.30	---	---	---	7.6
7124	do	do	55	---	18.0	14.0	12.8	77.78	80.00	91.43	14.93	---	---	---	7.4
6991	do	do	Old	---	18.0	14.0	12.6	77.78	78.75	90.00	14.87	---	---	---	7.3
7043	do	do	Elderly	---	17.7	13.8	12.6	77.97	80.00	91.80	14.70	---	---	---	6.7
6876	do	do	35	---	17.8	13.9	13.1	78.09	82.65	94.24	14.93	---	---	---	7.3
7074 <sup>8</sup>	do	do	50	---	17.4	13.6	11.9	78.16	76.77	87.5	14.30	---	---	---	6.7
7076	do	do	Elderly	---	17.4	13.6	12.2	78.16	78.71	89.71	14.40	---	---	---	7.3
1005 <sup>9</sup>	do	do	Old	---	17.4	13.6	11.7	78.16	75.48	86.03	14.23	---	---	---	7.0
5552-4	Leningrad Mus.	do	---	---	17.6	13.8	12.4	78.41	78.98	89.86	14.60	---	---	---	7.3
7166	do	do	do	---	17.6	13.8	12.9	78.41	82.17	93.48	14.77	---	---	---	7.5
7170	Moscow Mus.	do	45	---	17.6	13.8	12.4	78.41	78.98	89.86	14.60	---	---	---	7.2
6948 <sup>10</sup>	do	do	Old	---	17.7	13.9	13.0	78.53	82.28	93.53	14.87	---	---	---	7.1
6870	do	do	40	---	17.4	13.7	12.2	78.74	78.46	89.05	14.43	---	---	---	6.7
	do	do	20	---	17.5	13.8	12.4	78.86	79.23	89.86	14.57	---	---	---	



[illegible]

See footnotes at end of table.



## SIBERIA: OSTIAK—Continued

## FEMALES—Continued

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella and maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) 1	Alveol. Pt.-Nasion Height (b)
7072	Moscow Mus.	Little Ob River	24	---	16.4	13.6	12.0	82.93	80.0	88.23	14.0	---	---	---	6.4
7143	do	do	24	---	16.4	13.6	11.8	82.93	78.67	86.76	13.93	---	---	---	6.4
6955 21	do	do	Old	---	17.0	14.1	12.0	82.94	77.17	85.11	14.37	---	---	---	6.6
6873	do	do	40	---	17.6	14.6	12.2	82.95	75.78	83.56	14.80	---	---	---	7.3
7179	do	do	30	---	17.6	14.6	12.3	82.95	76.40	84.25	14.83	---	---	---	7.0
5191-5	do	do	35	---	16.0	13.3	11.2	83.15	76.45	84.21	13.50	---	---	---	6.0
7038	do	do	35	---	16.6	13.8	12.8	83.15	84.21	92.75	14.40	---	---	---	7.3
7187	do	do	Mid-aged	---	17.8	14.8	13.1	83.15	80.37	88.51	15.23	---	---	---	7.1
6956	do	do	Elderly	---	17.3	14.4	12.8	83.24	80.76	88.89	14.83	---	---	---	6.8
6941 22	do	do	40	---	17.4	14.5	11.1	83.33	69.59	76.55	14.33	---	---	11.7	7.8
6962 23	do	do	30	---	17.0	14.2	12.3	83.53	78.85	86.62	14.50	---	---	---	7.0
7056 24	do	do	Mid-aged	---	17.0	14.2	12.6	83.53	80.77	88.73	14.60	---	---	---	7.1
6966 25	do	do	30	---	16.9	14.2	12.3	84.02	79.10	86.62	14.47	---	---	---	6.9
7052	do	do	22	---	17.0	14.3	12.7	84.12	81.15	88.81	14.67	---	---	---	7.1
7048	do	do	Mid-aged	---	17.8	15.0	12.6	84.27	76.83	84.0	15.13	---	---	11.2	6.6
7210	do	do	25	---	17.0	14.4	12.6	84.71	80.25	87.5	14.67	---	---	---	7.8
7040	do	do	55	---	16.6	14.1	13.0	84.94	84.69	92.2	14.57	---	---	---	7.0
7201	do	do	35	---	16.2	13.8	12.8	85.19	85.33	92.75	14.27	---	---	---	6.9
7181	do	do	40	---	17.6	15.0	12.6	85.23	77.90	84.0	15.07	---	---	---	6.9
7054	do	do	30	---	16.7	14.3	12.3	85.63	80.65	87.41	14.50	---	---	11.9	7.5
7162	do	do	35	---	16.9	14.5	12.8	85.80	81.53	88.28	14.73	---	---	---	7.4
7216	do	do	30	---	17.0	14.6	12.2	85.88	77.22	83.56	14.60	---	---	---	6.7
7053 16	do	do	23	---	17.2	14.8	12.2	86.05	76.25	82.43	14.73	---	---	---	7.1
5191-1	do	do	---	---	16.4	14.2	11.8	86.59	77.12	83.1	14.13	---	---	11.0	6.7
237-1	do	do	---	---	17.0	14.9	12.7	87.65	79.62	85.23	14.87	---	---	---	6.7
7175	do	do	Mid-aged	---	16.2	14.2	12.2	87.65	80.25	85.92	14.20	---	---	---	6.6
7060	do	do	do	---	16.4	14.4	12.3	87.80	79.87	85.42	14.37	---	---	---	6.6
Specimens			(66)		(115)	(115)	(115)	(115)	(115)	(115)	(115)			(18)	(110)
Totals			2320		2,001.8	1,605.1	1,419.7	80.18	78.72	88.45	1,675.54			201.7	768.8
Averages			35.2		17.41	13.96	12.35	80.18	78.72	88.45	14.57			11.21	6.99
Minima			20		16.0	12.7	11.1	73.03	69.57	76.65	13.50			10.6	6.0
Maxima			55		18.8	15.0	13.3	87.80	84.71	98.86	15.33			11.9	7.8

## OSTIAK-SAMOYED

1341	Leningrad Mus	Surchanski Krai			16.9	14.3	12.0	84.62	76.92	---	14.40	---	---	---	6.6
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Catalog No.	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth maxim.	Nasal Index	Upper Alveolar Arch—Length maxim.	Upper Alveolar Arch—Breadth maxim.	Upper Alveolar Arch—Index
7135	13.1	88.55	54.96	9.6	9.6	9.6	68.0	55.0	3.2	3.15	3.9	3.85	82.05	82.89	5.25	2.55	48.57	5.1	6.7	76.12
6967	12.5	—	51.20	8.5	8.5	9.6	71.0	45.0	3.35	3.35	3.8	3.85	85.90	87.01	5.05	2.95	48.42	5.4	6.7	80.60
6955	13.4	—	55.22	9.0	9.0	10.0	67.5	51.0	3.5	3.55	3.8	3.8	94.74	92.11	5.4	2.45	45.37	5.6	6.4	87.50
135	13.7	—	56.93	9.6	9.6	10.6	66.5	48.5	3.5	3.55	3.85	3.85	90.91	92.21	5.75	2.5	43.48	6.0	6.8	88.24
7044	12.7	—	54.32	8.7	8.7	9.6	68.5	57.5	3.25	3.2	3.8	3.75	86.53	85.23	4.9	2.45	50.00	—	—	—
6961	13.0	—	67.31	8.4	8.4	9.4	68.5	58.0	3.25	3.2	3.7	3.7	87.74	86.49	4.9	2.4	48.98	5.3	6.3	84.13
7099	13.4	—	52.31	9.8	9.8	10.5	70.0	58.0	3.2	3.0	3.8	3.7	84.21	81.08	5.1	2.65	51.96	5.6	6.5	86.15
6893 <sup>3</sup>	13.2	—	55.30	10.1	8.8	9.8	66.0	45.5	3.65	3.7	4.0	3.9	91.25	94.87	5.4	2.6	48.15	5.6	6.7	83.68
6995	12.6	—	53.97	9.9	8.6	9.2	63.0	45.0	3.4	3.6	3.8	3.8	89.47	94.74	4.9	2.55	52.04	5.4	6.0	90.00
7070 <sup>4</sup>	13.4	—	50.75	9.6	8.4	9.6	69.0	46.0	3.4	3.7	3.8	3.95	89.47	94.74	5.1	2.6	50.98	—	—	—
5592-5	12.8	84.98	53.13	10.2	9.2	10.4	72.0	50.0	3.15	3.15	3.7	3.7	85.14	85.14	5.2	2.65	51.54	5.4	6.7	80.69
7189	12.2	—	54.92	10.2	9.2	10.1	69.5	54.5	3.15	3.65	3.85	4.05	81.82	90.12	4.8	2.35	48.96	5.2	5.7	91.23
7011	13.3	—	—	8.9	8.9	9.6	—	—	3.65	3.2	4.05	4.05	81.82	90.12	5.8	2.7	46.55	—	—	—
6900	13.1	85.50	53.44	9.9	8.6	9.4	65.0	46.0	3.2	3.2	3.7	3.65	86.49	87.67	5.05	2.2	43.56	5.7	6.0	95.00
7023	13.0	—	53.33	8.9	8.0	9.2	69.5	59.0	3.55	3.75	3.75	3.7	94.67	101.35	4.9	2.25	45.92	4.9	5.7	85.96
7113	12.0	—	53.85	9.5	8.5	9.4	67.5	52.5	3.5	3.55	4.1	3.95	85.37	89.87	5.2	2.45	47.12	5.3	6.6	80.30
6886	13.6	—	52.94	10.2	9.0	9.6	64.0	47.0	3.85	4.25	4.25	—	90.59	—	5.3	3.0	56.60	—	—	—
6969	12.7	—	56.69	10.6	9.2	10.0	65.5	46.5	3.4	3.55	3.9	3.9	87.18	91.03	5.1	2.4	47.06	5.6	6.8	82.35
6890	13.3	—	54.89	10.3	9.4	9.9	66.0	58.5	3.35	3.55	4.1	4.0	82.93	88.75	5.1	2.75	51.89	5.4	6.7	80.60
7131 <sup>5</sup>	13.4	—	52.24	9.8	8.9	10.1	71.0	49.5	3.4	3.55	4.1	4.0	89.49	83.75	5.4	2.65	51.96	5.1	6.2	82.26
7013	14.3	—	54.83	10.5	9.4	10.4	67.0	57.0	3.3	3.35	4.1	4.0	89.49	94.59	5.3	2.45	46.23	5.8	6.5	80.23
6978	13.6	—	54.41	10.5	9.2	10.2	66.5	49.0	3.3	3.5	3.7	3.7	89.49	94.59	5.3	2.45	46.23	5.4	6.6	81.32
6988 <sup>6</sup>	13.2	—	—	9.3	9.3	10.1	—	—	3.3	3.3	3.85	3.85	85.71	85.71	5.15	2.6	50.49	—	—	—
6887 <sup>7</sup>	13.5	—	54.07	10.8	9.6	9.8	62.0	51.0	3.2	3.45	3.9	3.8	82.05	90.78	5.15	2.35	45.63	6.2	6.2	100.00
6965	12.9	—	58.91	9.8	8.8	10.0	68.5	58.0	3.9	3.9	4.1	4.0	95.12	97.50	5.3	2.5	47.14	5.2	6.2	83.87
7124	13.4	—	56.72	11.0	9.7	10.4	65.5	51.5	3.8	3.8	4.0	4.0	95.00	95.00	5.3	2.65	50.00	5.4	6.0	90.00
6901	13.7	—	54.01	10.2	8.9	9.8	65.5	50.0	3.1	3.25	4.05	3.9	76.54	83.23	5.15	2.6	50.49	5.7	6.6	86.36
7043	13.2	—	56.30	10.4	9.4	10.1	66.5	56.0	3.3	3.45	4.0	3.95	82.50	87.34	5.2	2.65	50.66	5.5	6.2	88.71
6876	12.9	—	51.94	9.6	8.6	9.6	69.5	51.5	3.45	3.3	3.6	3.5	85.83	94.29	4.9	2.4	48.98	4.9	5.5	80.09
7074 <sup>8</sup>	13.1	—	—	9.6	8.6	9.6	—	—	3.15	3.2	3.7	3.6	85.14	88.89	5.0	2.8	56.0	—	—	—
7076	12.6	—	62.68	10.2	9.0	9.6	64.0	50.0	3.9	3.9	4.1	4.15	95.12	93.98	5.3	2.6	49.06	—	—	—
1005 <sup>9</sup>	12.8	—	54.69	9.9	8.8	9.6	66.5	53.0	3.25	3.45	3.7	3.5	87.84	93.57	5.0	2.6	52.0	—	—	—
5532-4	13.2	—	55.50	9.2	8.0	9.4	68.0	48.0	3.5	3.45	3.8	3.8	92.11	90.79	5.4	2.5	46.30	5.1	6.0	85.0
7165	13.9	—	56.82	9.6	8.4	9.4	65.5	55.5	3.4	3.4	3.9	3.8	87.18	87.18	4.85	2.45	47.42	5.3	6.1	86.89
7170	13.2	—	51.80	10.5	9.4	10.2	67.5	53.5	3.3	3.25	3.9	3.8	84.62	85.53	5.1	2.65	48.04	5.5	6.5	84.62
6948 <sup>10</sup>	13.2	—	53.79	9.6	8.8	9.7	69.0	61.0	3.6	3.6	3.9	3.7	92.31	97.30	5.0	2.6	52.0	5.0	6.0	83.33
6949 <sup>11</sup>	(12.1)	—	(56.37)	9.3	8.4	9.2	68.0	56.5	3.3	3.35	3.3	3.6	100.0	85.06	4.8	2.15	44.79	4.7	6.2	75.81
7103	13.1	—	52.67	9.6	8.6	9.7	70.5	53.5	3.45	3.5	4.05	3.95	85.19	88.61	5.1	2.7	52.94	5.0	6.2	80.65
6908 <sup>12</sup>	13.5	—	51.85	10.4	9.3	9.5	62.0	50.0	3.8	3.65	3.85	3.9	98.70	93.59	5.1	2.75	53.92	5.7	6.4	89.06
6872	13.2	88.80	56.20	10.1	9.1	10.0	64.0	54.0	3.4	3.35	3.8	3.8	89.47	83.33	5.0	2.4	48.0	5.5	5.8	94.83
7155	12.6	89.59	56.06	10.5	9.3	9.9	69.5	54.0	3.2	3.25	3.8	3.9	84.21	83.33	5.0	2.6	52.0	6.0	6.1	98.36
			53.17	9.3	8.4	9.0	60.0	57.0	3.5	3.45	3.9	3.8	89.74	90.79	4.75	2.35	49.47	5.0	6.3	79.37



## SIBERIA: OSTIAK—Continued

## FEMALES—Continued

Catalog No.	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a}{b \times 100}\right)$	Facial Index, upper $\left(\frac{c}{b \times 100}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Racial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxim.	Upper Alveolar Arch— Breadth maxim.	Upper Alveolar Arch— Index
6888	13.5	57.04	57.04	10.2	9.0	9.7	64.0	50.0	3.7	3.8	3.85	3.8	96.10	100.0	5.7	2.5	43.89	5.7	6.6	86.96
7160 <sup>13</sup>	13.6	56.55	56.55	9.1	8.2	9.9	66.0	57.5	3.5	3.6	3.7	3.6	94.59	89.47	5.2	2.4	46.16	5.0	6.2	80.65
6905	12.9	51.88	51.88	9.7	8.8	9.8	70.0	59.5	3.1	3.1	3.75	3.75	82.67	82.67	4.8	2.45	51.04	5.2	6.3	82.54
7047	13.2	56.30	56.30	11.1	10.0	10.4	73.0	57.0	3.35	3.35	3.8	3.7	87.84	87.84	4.95	2.7	48.48	5.0	6.3	83.33
6878	13.3	51.13	51.13	10.3	9.1	9.5	72.5	56.0	3.6	3.7	4.1	4.05	86.80	91.86	5.65	2.4	47.79	5.2	5.9	88.14
6884	13.3	51.88	51.88	8.8	8.0	9.3	71.5	57.0	3.5	3.5	4.0	3.9	86.25	87.18	5.1	2.4	47.08	5.2	6.3	82.54
6954	13.8	52.17	52.17	10.4	9.4	10.2	68.0	53.0	3.45	3.45	4.1	3.8	84.15	92.31	4.75	2.35	45.28	5.1	6.1	83.61
7128	13.1	51.15	51.15	10.9	9.4	10.0	64.0	48.0	3.5	3.5	3.9	3.8	89.74	93.42	5.3	2.4	46.81	5.6	6.0	86.67
6871 <sup>14</sup>	12.7	52.76	52.76	9.4	8.4	9.2	67.5	53.5	3.3	3.2	3.7	3.65	91.89	91.89	4.85	2.35	48.45	5.2	6.2	80.65
7029	12.4	56.45	56.45	10.3	8.8	9.4	61.0	42.5	3.3	3.3	3.8	3.75	89.19	85.23	4.8	2.35	48.96	4.8	6.3	76.19
6922	13.0	53.85	53.85	10.0	8.9	9.4	64.0	53.0	3.35	3.35	3.6	3.55	93.06	92.96	4.9	2.75	53.06	5.3	6.2	85.48
7100	12.7	55.12	55.12	9.7	8.4	9.6	68.0	48.0	3.45	3.45	3.85	3.8	89.61	93.42	4.95	2.45	49.49	5.3	6.2	85.48
7035	13.7	51.82	51.82	10.2	9.1	9.8	66.0	51.0	3.5	3.5	3.95	3.8	88.61	93.42	5.15	2.6	50.49	5.7	6.3	90.48
7142	13.9	50.36	50.36	9.9	8.7	9.8	68.5	48.0	3.65	3.65	3.9	3.8	93.59	96.05	5.1	2.2	43.14	5.3	6.4	82.81
7071 <sup>14</sup>	12.1	53.72	53.72	9.4	8.0	9.7	65.0	45.0	3.35	3.35	4.0	4.0	85.90	92.11	4.7	2.5	53.19	5.4	5.8	93.10
6912	12.9	54.81	54.81	10.2	8.7	9.5	67.0	60.0	3.45	3.45	3.95	3.9	89.87	87.19	4.95	2.5	50.61	5.0	6.4	78.13
6940 <sup>16</sup>	13.2	51.55	51.55	9.6	8.7	9.2	63.0	51.0	3.3	3.3	3.8	3.75	84.62	90.67	5.1	2.4	48.48	5.1	5.9	86.44
7140	12.9	55.04	55.04	9.4	8.2	9.8	66.5	53.5	3.4	3.4	3.9	3.75	89.74	93.42	5.1	2.55	50.0	5.4	6.4	84.38
6983 <sup>17</sup>	13.6	51.47	51.47	10.2	8.0	9.1	69.5	50.0	3.4	3.4	3.7	3.6	91.89	94.44	5.0	2.5	50.0	4.9	6.2	79.03
7098	13.1	52.67	52.67	8.8	8.0	9.3	70.0	54.5	3.2	3.2	3.9	3.8	82.05	89.47	5.0	2.5	50.0	4.9	5.9	83.05
7106	13.1	51.15	51.15	9.1	8.0	9.3	70.0	54.5	3.4	3.4	3.9	3.8	82.05	89.47	5.0	2.5	50.0	4.9	5.9	83.05
7167	13.8	56.55	56.55	9.1	8.2	9.9	66.0	57.5	3.5	3.5	3.7	3.6	94.59	89.47	5.2	2.4	46.16	5.0	6.2	80.65
6911 <sup>18</sup>	12.6	51.88	51.88	9.7	8.8	9.8	70.0	59.5	3.1	3.1	3.75	3.75	82.67	82.67	4.8	2.45	51.04	5.2	6.3	82.54
7020	13.3	51.91	51.91	9.8	8.9	10.2	73.0	57.0	3.35	3.35	3.8	3.7	87.84	87.84	4.95	2.7	48.48	5.0	6.3	83.33
6879	13.1	51.91	51.91	9.8	8.9	10.2	72.5	56.0	3.6	3.7	4.1	4.05	86.80	91.86	5.65	2.4	47.79	5.2	5.9	88.14
7067	14.2	50.0	50.0	9.6	8.6	9.5	63.5	50.5	3.45	3.45	4.0	3.9	86.25	87.18	5.1	2.4	47.08	5.2	6.3	82.54
7009	12.7	53.54	53.54	9.6	8.6	9.5	65.0	54.0	3.45	3.45	4.1	3.8	84.15	92.31	4.75	2.35	45.28	5.1	6.1	83.61
7148	13.1	51.15	51.15	8.9	7.9	8.6	65.0	48.0	3.5	3.5	3.9	3.8	89.74	93.42	5.3	2.4	46.81	5.6	6.5	86.15
7202	13.4	53.7	53.7	10.6	9.4	10.1	66.0	49.5	3.2	3.2	3.75	3.7	85.33	91.89	4.3	2.4	46.81	5.2	6.0	86.67
6916	12.6	50.03	50.03	10.0	8.8	9.0	62.0	48.0	3.4	3.4	3.7	3.65	91.89	91.89	4.85	2.35	48.45	5.0	6.2	80.65
5552-2	13.5	49.6	49.6	9.4	8.2	9.4	68.5	48.0	3.3	3.3	3.7	3.65	90.41	93.06	5.05	2.25	44.65	4.8	6.3	76.19
6933	13.1	51.13	51.13	8.9	8.3	9.2	70.5	62.0	3.3	3.3	3.8	3.7	85.63	86.49	5.1	2.45	48.04	5.3	6.0	88.33
7168	13.4	51.45	51.45	10.7	9.6	10.2	67.0	51.0	3.25	3.25	3.8	3.7	85.63	86.49	5.0	2.1	42.0	4.8	5.8	81.36
7115	12.5	53.69	53.69	8.9	8.1	9.2	71.0	57.0	3.6	3.6	3.9	3.8	92.31	97.37	5.25	2.45	46.67	5.2	6.5	89.66
7180	12.8	56.20	56.20	9.2	8.2	9.4	68.5	55.0	3.25	3.25	4.0	3.75	85.63	85.63	4.75	2.4	50.53	5.6	6.5	86.15
6964	14.2	47.89	47.89	10.7	9.6	10.0	66.0	42.0	3.3	3.3	4.0	4.1	82.50	80.49	5.25	3.1	59.05	5.6	6.9	81.16
7051 <sup>19</sup>	13.1	48.23	48.23	10.6	9.4	9.6	70.0	62.0	3.5	3.5	3.9	3.7	89.74	97.30	5.1	2.35	46.08	4.9	5.9	83.05
7064	13.3	49.62	49.62	9.6	9.0	9.6	70.0	62.0	3.5	3.5	3.9	3.7	89.74	97.30	5.1	2.35	46.08	4.9	5.9	83.05
7212	12.9	55.8	55.8	9.0	8.0	9.0	66.0	53.0	3.55	3.55	3.95	3.7	89.87	98.65	5.35	2.35	43.93	5.0	6.6	75.76







## SIBERIA: VOGUL

MALES<sup>1</sup>

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
4382	Moscow Mus	Ob River (southwest of Ostiaks).	Elderly	---	19.6	13.5	12.8	68.88	77.34	---	15.30	---	---	---	7.4
4358	do	do	45	---	19.8	13.8	12.8	69.70	76.19	---	15.47	---	---	---	7.4
4360	do	do	Mid-aged	---	18.9	13.4	12.6	70.90	78.02	---	14.97	---	---	---	7.5
4383	do	do	Elderly	---	18.6	13.4	12.2	72.04	76.25	---	14.73	---	---	---	7.4
4373	do	do	do	---	19.2	14.0	12.6	72.92	76.90	---	15.27	---	---	---	7.4
4395	do	do	Mid-aged	---	19.6	14.4	12.6	73.47	74.12	---	15.53	---	---	---	7.0
4410	do	do	35	---	19.0	14.0	13.7	73.68	83.03	---	15.57	---	---	---	7.1
4394	do	do	Old	---	18.7	14.0	12.6	74.87	77.06	---	15.10	---	---	---	8.0
4365	do	do	Elderly	---	19.2	14.6	12.3	76.04	72.78	---	15.37	---	---	---	7.4
4402	do	do	40	---	17.8	13.6	13.4	76.40	85.35	---	14.93	---	---	---	7.3
4376	do	do	do	---	18.8	14.4	13.0	76.60	78.31	---	15.40	---	---	---	7.0
4381	do	do	25	---	18.5	14.4	12.2	77.84	74.16	---	15.03	---	---	---	6.7
4375	do	do	Mid-aged	---	18.4	14.4	12.8	78.26	78.05	---	15.20	---	---	---	6.9
4362	do	do	45	---	18.2	14.3	12.4	78.57	76.31	---	14.97	---	---	11.6	7.0
4427	do	do	Mid-aged	---	18.0	14.2	12.6	78.89	78.26	---	14.93	---	---	---	7.0
Specimens	---	---	---	---	(15)	(15)	(15)	(15)	(15)	---	(15)	---	---	(1)	(14)
Totals	---	---	---	---	282.3	210.4	190.6	---	---	---	227.77	---	---	(11.6)	101.5
Averages	---	---	---	---	18.82	14.03	12.71	74.5	77.4	---	15.18	---	---	---	7.25
Minima	---	---	---	---	17.8	13.4	12.2	68.9	72.8	---	14.73	---	---	---	6.7
Maxima	---	---	---	---	19.8	14.6	13.7	78.9	85.4	---	15.57	---	---	---	8.0

## ABERRANT

4659	Moscow	Ob River (Southwest of Ostiaks).	Mid-aged	---	18.8	15.3	13.0	81.38	76.25	---	15.70	---	---	12.3	7.4
4380	do	do	40	---	17.9	14.8	12.5	82.68	76.45	---	15.07	---	---	13.0	7.8
4366	do	do	Elderly	---	18.0	15.0	13.8	83.33	83.64	---	15.60	---	---	---	---



## MALES

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length max.	Upper Alveolar Arch— Breadth max.	Upper Alveolar Arch— Index
4382	13.4	---	55.22	10.0	9.0	10.1	69.0	57.5	3.5	3.5	3.7	3.7	94.59	94.59	5.25	2.55	43.57	5.4	6.5	83.08
4358	14.0	---	52.86	10.1	9.3	10.2	69.0	61.5	3.55	3.55	4.0	3.8	83.75	93.42	5.3	2.85	63.77	5.4	6.9	78.26
4360	13.1	---	57.25	10.2	9.3	10.2	68.5	57.5	3.6	3.65	3.65	3.7	98.62	98.65	5.5	2.3	41.82	5.6	6.4	87.50
4383	13.6	---	44.41	10.0	9.3	10.4	71.5	66.0	3.25	3.1	3.75	3.75	86.67	82.67	5.05	2.6	51.49	5.4	6.7	80.60
4373	13.8	---	53.62	10.7	9.8	10.3	66.5	53.0	3.25	3.3	3.85	3.85	84.42	85.71	5.7	2.65	46.49	5.8	6.5	89.23
4395	14.2	---	49.30	10.5	9.4	10.2	68.0	48.5	3.3	3.2	3.7	3.7	89.19	86.49	5.3	2.7	50.94	5.3	6.5	81.54
4410	13.7	---	51.82	10.2	9.6	10.8	73.0	66.0	3.2	3.2	3.9	3.9	82.05	82.05	5.1	2.5	49.02	5.2	6.1	85.25
4394	13.8	---	---	---	9.3	10.2	---	---	3.3	3.5	4.0	3.9	82.50	89.74	5.3	2.85	63.77	---	---	---
4365	13.5	---	59.26	9.7	8.7	9.8	66.0	55.0	3.5	---	3.65	---	95.89	---	6.0	2.8	46.67	5.3	6.5	81.54
4402	13.8	---	---	9.9	8.9	10.4	72.0	58.0	3.2	---	3.8	---	84.21	---	5.2	2.4	46.15	5.3	6.4	82.81
4376	13.2	---	52.90	9.4	9.0	10.2	74.0	71.5	3.55	---	3.8	---	93.42	---	5.4	2.25	41.67	5.1	5.8	87.93
4381	13.2	---	53.03	9.6	8.4	9.8	70.5	42.5	3.75	---	3.85	---	97.40	98.68	5.5	2.6	47.27	5.1	6.2	82.26
4375	14.2	---	47.18	9.7	8.9	10.0	72.5	58.5	3.25	3.4	3.7	3.7	87.84	91.89	4.9	2.65	54.08	5.4	7.0	77.14
4362	13.9	83.45	49.64	10.6	9.4	10.2	67.0	46.5	3.5	3.45	3.7	3.8	94.59	90.79	5.15	2.65	51.46	5.3	6.5	81.54
4427	13.8	---	50.72	10.0	8.9	9.9	68.5	51.5	3.4	3.55	4.0	3.8	85.0	93.42	5.1	2.5	49.02	5.4	6.4	84.98
Specimens	(14)	(1)	(13)	(14)	(15)	(15)	(14)	(14)	(15)	(12)	(15)	(12)	(15)	(12)	(15)	(15)	(15)	(14)	(14)	(14)
Totals	192.0	---	---	140.8	137.2	152.7	978.0	795.5	51.1	41.15	57.05	45.4	---	---	79.75	38.85	---	75.0	90.4	---
Averages	13.71	(83.45)	52.8	10.06	9.15	10.18	69.9	56.8	3.41	3.43	3.80	3.78	89.6	90.6	5.32	2.59	43.7	5.36	6.46	82.0
Minima	13.1	---	44.4	9.4	8.4	9.8	66.0	42.5	3.2	3.1	3.65	3.7	82.1	82.1	4.9	2.25	41.7	5.1	5.8	77.1
Maxima	14.2	---	59.3	10.7	9.8	10.8	75.0	71.5	3.75	3.75	4.0	3.9	98.6	98.7	6.0	2.85	54.1	5.8	7.0	89.2

## ABERRANT

4659	14.4	85.42	51.39	10.3	9.1	10.0	66.5	51.5	3.4	3.4	3.9	3.9	87.18	87.18	5.25	2.5	47.62	5.6	6.9	81.16
4380	13.7	94.89	56.93	10.5	8.8	9.8	62.5	43.5	---	3.6	---	---	---	100.0	5.4	2.3	42.59	6.0	6.7	89.55
4366	13.8	---	---	---	---	10.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<sup>1</sup> See Silineč, I., Věgul, Antrop. Žurnal, vol. 5, pp. 94-115, 1904.

<sup>2</sup> Near.

<sup>3</sup> Vault syphilitic.

<sup>4</sup> Some labial maxillary hyperostosis.

<sup>5</sup> Vault Eskimoid; face Indian-like.

<sup>6</sup> Face and nose rather pronounced.



SIBERIA: VOGUL  
FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad max.)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
4369	Moscow Mus.	Ob River (southwest of Ostiaks).	Elderly		19.0	13.6	12.2	71.58	74.85		14.93				7.1
4415	do	do	45		18.5	13.4	11.8	72.43	73.98		14.57				7.1
4417	do	do	Old		17.6	12.8	11.8	72.73	77.63		14.07				
4393	do	do	Elderly		18.4	13.4	12.2	72.83	76.73		14.67				6.8
4390	do	do	25		18.2	13.3	12.4	73.08	78.73		14.63				6.5
4425	do	do	Old		19.0	14.0	12.6	73.68	76.56		15.20				7.3
4385	do	do	25		17.2	12.7		73.84							6.2
4384	do	do	Elderly		18.1	13.4	11.6	74.03	73.65		14.37				3 6.5
4389	do	do	55		18.6	13.8	12.4	74.19	76.54		14.93			4 11.9	7.2
4361	do	do	Old		17.9	13.3	11.7	74.30	75.0		14.30				
4400	do	do	30		17.6	13.1	12.6	74.43	82.08		14.43				6.2
4413	do	do	35		17.7	13.2	12.5	74.58	80.91		14.47				6.6
4379	do	do	Mid-aged		18.4	13.8	12.2	75.0	75.78		14.80				6.8
4386	do	do	do		17.3	13.0	12.3	75.14	81.19		14.20				6.8
4424	do	do	Old		18.3	13.8	12.0	75.41	74.77		14.70				
4377	do	do	Elderly		17.6	13.3	11.4	75.57	73.79		14.10				6.2
4391	do	do	Mid-aged		17.3	13.1	12.4	75.72	81.58		14.27				7.0
4367	do	do	do		17.6	13.5	12.4	76.70	79.74		14.50				6.9
4384	do	do	Elderly		17.6	13.6	12.0	77.27	76.92		14.40				7.1
4419	do	do	Old		16.7	13.0	12.0	77.84	80.81		13.90				
4420	do	do	Elderly		17.4	13.6	12.0	78.16	77.42		14.33				6.8
4405	do	do	30		17.6	13.8	13.1	78.41	83.44		14.83				6.0
4374	do	do	25		17.5	13.8	11.6	78.86	74.12		14.30				6.8
4397	do	do	Mid-aged		18.0	14.2	12.9	78.89	80.12		15.03				6.5
4370	do	do	25		17.0	13.7	11.8	80.59	76.87		14.17				6.6
4428	do	do	25		16.6	13.4	12.0	80.72	80.0		14.0				6.9
4368	do	do	35		17.4	14.2	11.7	81.61	74.05		14.43				
Specimens			(11)		(27)	(27)	(26)	(27)	(26)		(26)			(1)	(22)
Totals			355		480.10	363.8	315.6	75.78	77.54		376.53				147.9
Averages			32.3		17.78	13.47	12.14	75.78	77.54		14.48				6.72
Minima			25.0		16.6	12.7	11.4	71.58	73.65		13.90				6.0
Maxima			55.0		19.0	14.2	13.1	81.61	83.44		15.20				7.3



Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Racial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
4360	13.2	—	53.79	10.2	9.0	9.3	66.5	49.5	3.6	3.6	3.9	3.7	92.81	97.30	5.2	2.55	49.04	5.4	6.5	88.08
4415	12.5	—	56.80	10.1	8.8	9.4	63.5	48.5	3.3	3.3	3.7	3.7	89.19	87.84	5.0	2.45	49.0	5.4	6.1	88.52
4417	11.4	—	—	—	8.5	9.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4363	12.7	—	53.54	9.8	8.9	9.9	70.0	52.0	3.35	3.4	4.0	3.8	88.75	89.47	5.25	2.7	51.43	5.2	6.0	86.67
4360	12.8	—	50.78	8.9	8.2	9.4	73.0	60.5	3.5	3.5	3.8	3.8	92.11	92.11	4.9	2.45	50.0	4.5	5.6	80.30
4425	12.9	—	56.59	9.0	8.3	9.8	73.0	62.5	3.8	3.8	3.85	3.85	98.70	98.70	5.35	2.45	45.79	—	—	—
4355	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4354	12.9	—	50.29	—	8.6	9.6	—	—	3.2	3.2	3.55	3.55	84.21	90.14	4.5	2.4	51.11	5.1	6.0	85.0
4359	13.3	89.47	54.14	9.9	8.8	10.0	69.0	51.5	3.7	3.65	4.2	4.1	88.10	89.02	5.4	2.4	44.44	5.3	3.6.0	88.33
4361	12.7	—	—	—	8.8	9.8	—	—	3.25	3.3	3.9	3.8	82.53	87.84	4.9	2.3	46.94	—	—	—
4400	13.1	—	47.35	10.0	9.2	10.0	72.0	55.5	3.2	3.4	3.9	3.7	82.05	91.89	4.7	2.55	54.26	5.1	6.2	82.86
4413	13.0	—	50.77	9.2	8.4	9.8	74.5	53.5	3.35	3.3	3.75	3.7	89.33	89.19	5.25	2.65	50.48	4.9	6.0	81.67
4379	13.4	—	50.75	9.1	8.4	9.6	72.0	63.0	3.35	3.55	3.8	3.8	88.16	93.42	4.9	2.5	51.02	4.9	6.1	80.33
4386	12.6	—	53.97	9.8	8.8	9.6	67.5	47.0	3.4	3.4	3.9	3.7	87.18	91.89	5.3	2.4	45.23	5.3	6.0	88.33
4424	13.0	—	—	9.0	8.4	9.8	—	—	3.65	3.65	—	—	96.05	96.05	4.8	2.8	58.33	—	—	—
4377	13.0	—	47.69	—	7.5	8.8	—	—	3.5	3.5	3.9	3.7	88.46	94.59	4.3	2.35	54.65	—	—	—
4391	12.7	—	55.12	10.4	9.0	9.6	63.5	46.0	3.3	3.25	3.7	3.6	89.19	90.28	4.9	2.5	51.02	5.6	6.3	88.89
4367	13.0	—	53.08	9.7	8.7	9.8	—	—	3.35	3.3	3.7	3.8	90.54	86.84	—	—	—	—	—	—
4384	13.4	—	52.99	9.1	8.0	9.6	71.5	53.5	3.2	3.35	3.9	3.7	82.05	90.54	—	—	—	—	—	—
4419	12.4	—	—	—	8.6	9.6	—	—	3.5	3.5	—	—	100.0	100.0	—	—	—	—	—	—
4420	12.8	—	53.13	9.2	8.2	9.4	70.0	54.0	3.6	3.5	4.1	3.9	87.80	89.74	5.0	2.3	46.0	4.7	5.8	81.03
4405	13.4	—	—	9.3	8.4	9.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4374	13.4	—	44.78	9.0	8.3	9.2	73.0	58.0	3.4	3.5	3.7	3.6	91.89	97.22	4.5	2.6	53.06	5.0	5.8	86.21
4397	14.2	—	47.89	9.2	8.8	10.2	77.0	67.0	3.55	3.6	4.1	3.9	86.59	92.31	4.5	2.4	46.94	5.0	6.2	80.65
4370	13.0	—	50.0	9.1	8.0	9.2	70.0	45.0	3.2	3.15	3.7	3.7	86.49	85.14	4.95	2.85	52.78	4.7	6.2	75.81
4428	12.5	—	52.80	9.7	8.6	9.0	64.0	54.0	3.1	3.15	(23.6	3.45	86.11	91.30	4.45	2.4	48.48	5.1	6.4	79.69
4368	12.5	—	56.20	9.2	8.4	9.5	70.5	57.0	3.65	3.2	3.8	3.7	80.26	86.49	5.2	2.7	51.92	4.6	6.5	88.33
Specimens	(25)	(1)	(21)	(21)	(26)	(26)	(18)	(18)	(23)	(24)	(23)	(24)	(23)	(24)	(25)	(25)	(25)	(18)	(18)	(18)
Totals	322.4	—	198.9	198.9	221.6	249.7	1,260.5	987.0	77.4	82.0	8.25	89.55	—	—	123.9	62.20	—	91.10	109.7	—
Averages	12.90	89.47	51.92	9.47	8.52	9.60	70.03	54.83	3.37	3.42	3.84	3.73	87.71	91.57	4.96	2.49	50.20	5.06	6.09	83.04
Minima	11.4	—	44.78	8.9	7.5	8.8	63.5	45.0	3.05	3.15	3.55	3.45	80.26	85.14	4.3	2.3	44.44	4.5	5.6	70.77
Maxima	14.2	—	56.80	10.4	9.2	10.2	77.0	69.5	3.8	3.8	4.2	4.1	98.70	100.0	5.4	2.85	58.53	5.6	6.5	88.89

<sup>1</sup> Upper median incisors lost long ago.

<sup>2</sup> Right upper median incisor lost long ago.

<sup>3</sup> Near.

<sup>4</sup> Allowance made for wear of teeth.

<sup>5</sup> Right upper median incisor torn out long ago.

<sup>6</sup> Vault syphilitic.



## SIBERIA: TUNGUS (MOSCOW SERIES)

## MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maximum (glabella ad maximum)	Diam. lateral maximum.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
8071	Moscow Mus.	Near Tampa River.	35	---	19.8	14.4	13.0	72.7	76.0	---	15.73	---	---	---	7.7
8069	do	"Dagar"	40	---	19.0	13.9	12.6	73.2	76.6	---	15.17	---	---	---	7.5
8078	do	do	50	---	19.2	14.1	13.4	78.4	80.5	---	15.57	---	---	---	8.5
8080	do	do	40	---	19.4	14.5	12.9	74.7	76.1	---	15.60	---	---	13.4	8.0
8078a	do	do	30	---	19.2	14.4	13.4	75.0	79.8	---	15.67	---	---	11.8	7.2
8089	do	Northeast of Lake Balkal.	30	---	19.4	14.8	13.9	76.3	81.3	---	16.03	---	---	---	6.5
8087	do	"Dagar"	20	---	19.1	14.6	12.6	76.4	74.8	---	15.43	---	---	11.8	7.2
8085	do	Northeast of Lake Balkal.	35	---	19.2	14.7	13.4	76.6	79.1	---	15.77	---	---	---	7.6
4635	do	Primorskaia Obl.	50	---	18.0	13.8	12.8	76.7	80.5	---	14.87	---	---	---	7.4
8076	do	"Dagar"	50	---	19.4	15.3	13.2	78.9	76.1	---	15.97	---	---	---	8.0
4634	do	Primorskaia Obl.	45	---	18.3	14.5	13.7	79.2	83.5	---	15.50	---	---	---	7.8
Specimens			(11)		(11)	(11)	(11)	(11)	(11)		(11)			(3)	(11)
Totals			425		210.0	159.0	144.9	75.71	78.54		171.31			37.0	83.4
Averages			38.6		19.09	14.45	13.17	76.71	78.54		15.57			12.33	7.53
Minima			20		18.0	13.8	12.6	72.7	74.8		14.87			11.8	6.5
Maxima			50		19.8	15.3	13.9	79.2	83.5		16.03			13.4	8.5



## FEMALES

8077	Moscow Mus.	Northeast of Lake Baikal.	40	18.3	13.8	11.8	75.41	73.52	14.63	---	---	7.4
8082	do	do	30	17.2	13.2	11.3	76.74	74.34	13.90	---	---	6.8
8083	do	do	30	18.2	14.0	11.7	76.92	72.67	14.63	---	---	7.2
8079	do	do	40	17.4	13.4	11.6	77.01	75.32	14.13	---	---	7.2
8081 (slightly $\sigma^7$ -like).	do	do	35	18.9	14.6	12.2	77.25	72.84	15.23	---	11.7	7.3
8074	do	do	35	17.2	13.5	12.0	78.49	78.18	14.23	---	---	7.3
8073	do	do	25	17.4	13.7	12.0	78.74	77.17	14.37	---	---	7.1
8070	do	do	35	17.3	13.8	11.9	79.77	76.53	14.33	---	---	7.5
8086	do	do	35	18.3	14.6	12.6	79.78	76.60	15.17	---	---	7.8
8084	do	do	25	17.4	14.0	12.2	80.46	77.71	14.53	---	---	6.5
Specimens	---	---	(10)	(10)	(10)	(10)	(10)	(10)	(10)	---	---	(10)
Totals	---	---	330	177.6	138.6	119.3	---	---	145.15	---	---	72.10
Averages	---	---	33	17.76	13.86	11.93	78.04	75.46	14.52	---	---	7.21
Minima	---	---	25	17.2	13.2	11.3	75.41	72.67	13.90	---	---	6.5
Maxima	---	---	40	18.9	14.6	12.6	80.46	78.18	15.23	---	---	7.8

1 Near.



## SIBERIA: TUNGUS (MOSCOW SERIES)—Continued

## MALES

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
8071	14.0	—	55.0	10.4	9.4	10.2	66.5	59.0	3.5	3.4	3.8	3.75	92.1	90.7	5.35	2.7	50.5	5.4	7.0	77.1
8089	13.6	—	55.2	10.1	9.0	10.0	67.5	52.0	3.5	3.4	3.8	3.7	92.1	91.9	5.55	2.9	52.3	5.1	6.9	73.9
8078	14.5	—	58.6	11.2	9.8	10.8	64.5	53.0	3.8	3.8	4.0	3.9	95.0	97.4	5.8	2.7	46.6	6.0	7.2	83.3
8080	14.7	—	54.4	10.5	9.3	10.4	67.0	50.0	3.8	3.7	4.2	4.0	90.5	92.5	6.0	2.7	45.0	5.3	6.8	77.9
8078a	14.3	82.5	50.4	10.7	9.8	10.6	69.5	57.0	3.4	3.45	3.8	3.75	89.5	92.0	5.35	2.8	52.3	5.5	6.6	83.3
8089	13.0	—	50.0	9.5	8.6	10.3	77.5	51.5	3.25	—	3.6	—	90.3	—	5.1	2.6	51.0	5.1	6.3	81.0
8087	13.5	87.4	53.3	10.8	9.6	10.4	67.0	49.0	3.45	3.5	4.05	3.9	85.2	89.7	5.3	2.65	50.0	5.5	6.8	80.9
8085	14.2	—	53.5	11.3	9.8	10.6	64.5	44.0	3.3	3.4	3.9	3.9	84.6	87.2	5.4	2.55	47.2	5.9	6.7	88.1
4035	14.0	—	52.9	10.0	9.0	10.4	71.5	56.0	3.3	3.25	3.7	3.7	89.2	87.8	5.3	2.5	47.2	5.2	7.1	73.2
8076	15.3	—	52.3	10.4	9.1	10.2	66.0	50.0	3.65	3.7	4.0	3.9	91.3	94.9	5.85	2.8	47.9	5.7	7.1	80.3
4634	13.8	—	56.5	10.3	9.2	10.1	63.0	57.0	3.45	3.55	3.9	3.9	88.5	91.0	5.1	3.0	58.8	5.5	7.0	78.6
Specimens	(11)	(3)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(10)	(11)	(10)	(11)	(10)	(11)	(11)	(11)	(11)	(11)	(11)
Totals	154.9	—	—	115.2	102.6	114.0	747.5	578.5	38.4	35.15	42.75	38.40	89.82	91.54	60.1	29.9	—	60.2	75.5	—
Averages	14.08	87.06	53.84	10.47	9.33	10.36	76.95	52.59	3.49	3.52	3.89	3.84	84.6	87.2	5.46	2.72	49.75	5.47	6.86	79.74
Minima	13.0	82.5	50.0	9.5	8.6	10.0	64.5	44.0	3.25	3.25	3.6	3.7	84.6	87.2	5.1	2.5	45.0	5.1	6.3	73.2
Maxima	15.3	91.2	58.6	11.3	9.8	10.8	77.5	59.0	3.8	3.8	4.2	4.0	95.0	97.4	6.0	3.0	58.8	6.0	7.2	88.1







## SIBERIA: TUNGUS (LENINGRAD SERIES)

## MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maximum (glabella ad maximum)	Diam. lateral maximum	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
730-2	Leningrad Mus.	Mouth of Angara River.			18.2	14.2	12.2	78.02	75.31		14.87			12.5	8.0
5537-2	do.	Urmi River, Chabarovsk region.			18.3	15.0	13.0	81.97	78.08		15.43			12.4	7.5
5192-1	do.	Lake Essel.			18.0	15.0	12.3	82.33	74.55		15.10			12.2	7.4
5146-4	do.	Lower Tunguska.			17.8	15.1	13.5	84.83	82.07		15.47			13.0	7.5
5192-2	do.	Lake Essel.			17.6	15.4	12.5	87.50	75.76		15.17			12.4	8.3
1200-6	do.	Turchanski Kraj			17.0	14.9	12.6	87.65	79.0		14.83			12.4	7.6
Specimens					(6)	(6)	(6)	(6)	(6)		(6)			(5)	(6)
Totals					106.9	89.6	76.10	83.82	77.46		90.87			62.50	46.3
Averages					17.82	14.93	12.68	78.02	74.55		15.15			12.50	7.72
Minima					17.0	14.2	12.2	87.65	82.07		14.83			12.2	7.4
Maxima					18.3	15.4	13.5				15.47			13.0	8.3

## FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maximum (glabella ad maximum)	Diam. lateral maximum	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
730-1	Leningrad Mus.	Mouth of Angara River.			18.0	14.2	13.1	78.89	81.97		15.10			11.7	7.4
5537-1	do.	Chabarovsk region.			17.0	13.6	12.0	80.0	78.43		14.20			11.2	6.9
5537-3	do.	do.			17.4	14.0	11.8	80.46	75.16		14.40			10.8	6.9
5275-1	do.	Yenisei River.			17.7	14.3	12.5	80.79	78.13		14.83			10.3	6.6
5537-7	do.	Chabarovsk region.			16.7	13.8	12.4	82.63	81.31		14.30			11.2	6.6
5146-5	do.	Lower Tunguska.			18.0	14.9	12.8	82.78	77.81		15.23			7.0	7.0
5242-1	do.	(?)			17.0	14.2	11.8	83.53	75.64		14.33			11.1	7.2
5275-2	do.	Yenisei River.			17.6	15.2	13.0	86.96	79.27		15.27			11.2	6.8
5240-1	do.	do.			17.0	15.1	11.8	88.82	73.52		14.63			11.2	6.9
Specimens					(9)	(9)	(9)	(9)	(9)		(9)			(7)	(9)
Totals					156.40	129.30	111.2	82.67	77.81		132.29			77.50	62.30
Averages					17.38	14.37	12.36	78.89	73.52		14.70			11.07	6.92
Minima					16.7	13.6	11.8	88.82	81.97		14.20			10.3	6.6
Maxima					18.0	15.2	13.1				15.27			11.7	7.4



## MALES

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. mm.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
730-2	13.8	90.58	57.97	10.4	9.2	10.4	67.0	51.0	3.25	3.4	3.9	3.7	83.33	91.89	5.95	2.85	47.90	5.3	6.3	84.13
5537-2	14.6	84.93	41.37	10.5	9.3	10.5	70.0	55.0	3.25	3.5	4.0	3.7	81.25	87.84	5.55	2.65	47.75	5.4	6.5	83.08
5192-1	14.8	82.43	50.0	10.2	9.2	10.0	67.0	57.5	3.55	3.55	4.0	3.9	88.75	91.03	5.15	2.6	50.49	5.3	6.7	79.10
5146-4	14.1	89.28	53.19	10.2	8.6	10.2	70.5	49.0	3.15	3.2	3.7	3.7	85.14	86.49	5.5	2.65	48.18	5.7	7.1	80.28
5192-2	14.4	87.94	47.64	9.9	9.2	9.9	62.0	53.0	3.5	3.65	4.0	4.1	87.50	89.02	5.75	2.65	46.09	5.5	6.1	90.16
1200-6	14.1	87.94	55.90	9.8	8.8	9.8	66.0	48.5	3.6	3.7	4.2	4.0	85.71	92.50	5.7	2.5	43.86	5.4	6.4	84.98
Specimens	(6)	(5)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
Totals	85.8	87.17	53.96	61.3	54.30	60.80	402.5	314.0	20.30	20.75	23.80	23.10	85.29	89.83	33.60	15.90	47.32	22.60	39.10	85.38
Averages	14.30	87.17	53.96	10.22	9.05	10.13	67.08	52.33	3.38	3.46	3.97	3.85	85.29	89.83	5.6	2.65	47.32	5.43	6.52	85.38
Minima	13.8	82.43	41.37	9.9	8.6	9.8	62.0	48.5	3.15	3.2	3.7	3.7	81.25	86.49	5.15	2.5	43.86	5.3	6.1	79.10
Maxima	14.8	90.58	57.97	10.5	9.3	10.5	70.5	57.5	3.6	3.7	4.2	4.1	88.75	92.50	5.95	2.85	50.49	5.7	7.1	90.16

## FEMALES

730-1	12.6	92.86	58.73	9.4	8.4	9.6	68.0	53.0	3.5	3.55	3.5	3.4	100.0	104.41	5.5	2.6	47.27	4.8	6.4	75.0
5537-1	13.2	84.85	52.27	10.0	9.0	9.9	69.0	55.5	3.15	3.1	3.7	3.6	85.14	86.11	4.85	2.5	51.55	5.0	6.7	74.63
5537-3	12.8	84.98	53.91	9.4	8.5	9.4	68.0	57.0	3.2	3.15	3.5	3.4	91.43	92.65	5.0	2.3	46.0	5.0	6.5	76.92
5275-1	13.6	75.74	48.53	9.7	8.7	9.6	69.0	51.0	3.4	3.35	3.7	3.65	91.89	91.78	4.9	2.5	51.02	4.9	6.4	76.56
5537-7	13.3	84.21	49.62	9.6	8.7	9.5	69.0	48.0	3.1	3.15	3.8	3.7	81.58	85.14	4.4	2.4	54.55	5.0	6.2	80.65
5146-5	13.4	84.21	52.24	9.9	8.5	9.8	68.0	44.5	3.55	3.65	4.0	3.8	88.75	96.05	5.1	2.6	50.98	5.3	6.2	85.48
5242-1	12.7	80.43	56.69	10.6	9.4	9.6	61.5	51.5	3.15	3.15	3.5	3.4	90.0	92.65	5.0	2.55	51.0	5.5	6.6	83.33
5275-2	13.8	80.43	49.28	9.8	8.7	9.7	68.5	52.0	3.05	3.05	3.5	3.5	87.14	87.14	4.9	2.6	51.02	5.1	6.5	78.46
5240-1	13.2	84.85	52.27	10.0	8.5	9.2	62.5	42.0	3.2	3.2	3.7	3.7	86.49	86.49	4.9	2.6	53.06	5.4	6.1	83.52
Specimens	(9)	(7)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)	(9)
Totals	118.6	83.78	52.53	88.40	78.40	86.30	603.5	454.5	29.30	29.35	32.90	32.15	89.05	91.29	44.55	22.55	50.62	46.0	57.6	79.86
Averages	13.18	83.78	52.53	9.82	8.71	9.59	67.06	50.50	3.26	3.26	3.66	3.57	89.05	91.29	4.95	2.51	50.62	5.11	6.40	79.86
Minima	12.6	75.74	48.53	9.4	8.4	9.2	61.5	42.0	3.05	3.05	3.5	3.4	81.58	85.14	4.4	2.3	46.0	4.8	6.1	74.63
Maxima	13.8	92.86	58.73	10.6	9.4	9.9	69.0	57.0	3.55	3.65	4.0	3.8	100.0	104.41	5.5	2.6	54.55	5.5	6.7	83.52



## SIBERIA: BURIAT (U.S.N.M. SERIES)

## MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
283607	A. H. U.S.N.M.	Near Troickosavsk (Klakhta).	60	---	18.7	14.5	13.0	77.5	78.5	---	15.40	1,590.0	---	---	---
283614	do	do	25	---	18.4	14.3	13.8	77.7	81.4	---	15.50	1,605.0	---	13.3	7.4
283606	do	do	30	---	18.0	14.0	13.2	77.8	82.5	---	15.07	1,520.0	---	11.4	8.1
278708	do	do	28	---	17.8	14.0	13.4	78.7	84.3	---	15.07	1,400.0	---	---	7.0
283620	do	do	40	---	19.2	15.2	13.2	79.2	76.7	---	15.87	1,650.0	---	---	7.4
283620	do	do	40	---	18.0	14.4	13.3	80.0	82.1	---	15.23	1,490.0	---	11.5	---
278707	do	do	25	---	18.0	14.6	13.0	81.1	79.8	---	15.20	1,545.0	---	---	7.3
283608	do	do	35	---	18.2	15.1	12.9	83.0	77.5	---	15.40	1,490.0	---	---	8.2
283604	do	do	50	---	17.4	14.6	13.0	83.9	81.3	---	15.00	1,570.0	---	13.7	---
283615	do	do	40	---	18.2	15.3	12.8	84.1	76.4	---	15.43	1,550.0	---	---	7.7
278716	do	do	45	---	17.7	14.9	13.6	84.2	83.4	---	15.40	1,540.0	---	12.6	7.4
278701	do	do	35	---	18.2	15.4	13.8	84.6	82.1	---	15.80	1,640.0	---	---	7.6
283613	do	do	60	---	17.6	14.9	---	84.7	---	---	---	---	---	---	---
283621	do	do	60	---	17.7	15.0	12.4	84.8	75.8	---	15.03	1,470.0	---	13.0	7.6
278706	do	do	75	---	18.1	15.5	12.9	85.6	76.8	---	15.50	1,500.0	---	---	---
278705	do	do	35	---	17.3	15.1	12.7	87.3	78.4	---	15.03	1,500.0	---	---	7.6
283612	do	do	60	---	17.6	15.4	12.9	87.5	78.2	---	15.39	1,450.0	---	12.7	7.9
278711	do	do	24	---	18.5	16.2	13.9	87.6	80.1	---	16.20	1,915.0	---	---	7.1
278710	do	do	55	---	17.6	15.5	12.9	88.1	77.9	---	15.33	1,520.0	---	13.6	8.1
283609	do	do	---	---	---	---	---	---	---	---	---	---	---	---	---
Specimens	---	---	(19)	---	---	---	---	---	---	---	---	---	---	---	---
Totals	---	---	822	---	342.2	283.9	236.7	---	---	---	(18)	(18)	---	(8)	(15)
Averages	---	---	43.3	---	18.01	14.94	13.15	82.96	79.75	---	276.76	27,945.0	---	101.8	114.6
Minima	---	---	24	---	17.3	14.0	12.4	77.5	75.8	---	15.38	1,552.5	---	12.73	7.64
Maxima	---	---	75	---	19.2	16.2	13.9	88.1	84.4	---	16.20	1,915.0	---	13.7	8.2



Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, $\left(\frac{a \times 100}{c}\right)$		Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height		Orbits—Breadth		Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. lm.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index	Lower Jaw—Height at Symphysis
		total	upper																			
283607	14.3				9.6	9.3	10.3	72.0	55.5	3.4	3.45	4.1	4.05	82.9	85.2	5.35	2.9	54.2	5.1	6.7	76.1	
283614	13.7	97.1	59.1	50.1	10.4	8.6	10.2	63.5	56.0	3.5	3.35	3.65	3.55	95.9	94.4	5.35	2.6	48.6	5.6	6.9	81.2	4.1
283606	13.9	82.0	50.4	50.4	8.9	8.2	9.6	73.0	61.0	3.45	3.4	3.75	3.75	92.0	90.7	5.1	2.35	46.1	4.9	6.4	76.6	3.1
283620	13.8		53.6	10.5	10.5	9.4	10.5	69.0	55.0	3.5	3.5	3.6	3.6	82.9	87.2	5.15	2.7	52.4	5.4	6.5	83.1	
278707	13.6	84.6				8.8	9.9			3.15	3.35	3.8	3.8	82.9	88.2	5.0	2.65	63.0	5.2	6.5	80.0	3.3
283608	13.4		54.5	9.6	9.6	8.4	9.6	67.5	46.0	3.35	3.35	3.3	3.5	95.7	95.7	5.5	2.55	46.4	5.4	6.5	83.1	
283604	14.3		57.3	10.2	9.1	9.1	10.4	67.5	55.0	3.4	3.4	3.9	4.0	87.2	86.0	6.0	3.0	50.0	5.5	6.4	85.9	
283615	13.5	101.48	60.7	9.5	8.1	8.1	9.4	63.5	51.0	3.65	3.5	3.85	3.85	94.8	90.9	5.6	2.7	48.2	5.4	5.9	91.5	3.95
278716	14.3		52.8	10.0	8.8	8.8	10.0	67.0	50.5	3.55	3.45	3.7	3.7	95.9	93.2	5.65	2.5	44.2	5.5	6.7	82.1	
278701	13.5		54.8	9.7	8.8	8.8	10.1	70.5	59.0	3.2	3.15	3.8	3.7	84.2	85.1	5.25	2.75	62.4				3.4
283613	14.4	87.5	52.8	9.0	8.2	8.2	10.4	76.5	59.0	3.55	3.65	4.0	4.0	88.8	91.3	5.7	2.6	45.6	4.9	6.5	75.4	
283621					9.7	8.4	9.4	64.5	49.5	3.8	3.85	3.75	3.9	101.3	98.7	5.4	2.7	50.0	5.6	6.2	90.3	3.9
278706	13.7	94.9	55.5				10.7			3.3	3.2	3.75	3.75	88.0	85.3	5.4	2.7	50.0				
278705	13.5					8.4	9.6	65.0	43.5	3.45	3.4	3.5	3.65	101.5	93.2	5.5	2.5	45.5	5.3	6.6	80.3	
283612	14.1		53.9	9.9	9.9	8.4	9.6			3.65	3.65	3.9	3.85	93.6	94.8	5.75	2.75	47.8	5.9	6.9	85.5	3.35
278711	14.8	85.8	53.4	10.5	9.6	9.6	10.0	64.0	59.0	3.65	3.65	3.6	3.5	84.7	87.1	5.1	2.9	56.9	5.8	7.1	81.7	
278710	13.5		52.6	10.3	9.0	9.0	9.4	62.0	47.0	3.05	3.05	3.6	3.85	92.2	90.9	5.6	2.55	45.5	5.5	7.1	77.5	3.75
278710	13.5		55.5	9.6	8.2	8.2	9.5	64.0	50.5	3.55	3.5	3.85	3.85	92.2	90.9	5.6	2.55	45.5	5.5	7.1	77.5	3.75
283609	14.6	93.2	55.5																			
Specimens	(17)	(8)	(15)	(15)	(15)	(18)	(18)	(15)	(15)	(16)	(18)	(16)	(18)	(16)	(18)	(18)	(18)	(18)	(15)	(15)	(15)	(3)
Totals	236.9		147.4	147.4	157.9	179.0	1,099.5	797.5	55.0	61.80	60.4	67.65	91.06	91.25	97.85	48.0	49.05	81.0	98.9	81.0	81.90	32.25
Averages	13.94	90.73	64.81	9.83	8.77	9.94	67.30	53.17	3.44	3.43	3.78	3.76	91.06	91.25	5.44	2.67	49.05	5.40	6.59	81.90	4.0	
Minima	13.4	82.0	50.4	8.9	8.1	9.4	62.0	43.5	3.05	3.05	3.5	3.5	82.9	85.0	5.0	2.35	44.2	4.9	5.9	75.4	3.1	
Maxima	14.8	101.48	60.7	10.5	9.6	10.7	76.5	61.0	3.8	3.85	4.1	4.05	101.5	98.7	6.0	3.0	56.9	5.9	7.1	91.5	4.1	

1 Extraordinarily difficult in these people to estimate age.

2 Near.

3 Allowance made for wear of teeth.



## SIBERIA: BURIAT (IRKUTSK SERIES)

## MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pl.-Nasion Height (b)
7539-10	Irkutsk Mus.	Ostraia Sopka, near Kiakhta.	30		18.4	14.8	14.0	80.43	84.34	94.59	15.73				
7539-5	do	do	25		18.5	15.0	13.1	81.08	78.21	87.83	15.53				8.0
7539-17	do	do	24		18.2	14.8	12.6	81.32	76.36	86.14	15.20				7.5
7539-9	do	do	30		18.4	15.0	13.3	81.52	79.64	88.67	15.57				7.7
7003-1	do	do	Mid-aged		18.3	15.0	13.0	81.97	78.08	86.67	15.43				8.1
7539-18	do	Balaganski	do		18.8	16.1	12.9	85.64	73.93	80.12	15.93				8.3
7539-16	do	Ostraia Sopka, near Kiakhta.	28		17.9	15.4	13.0	86.03	78.08	84.42	15.43				7.7
7539-6	do	do	40		17.6	15.3	13.4	86.93	81.46	87.58	15.43				7.7
7874-3	do	?	30		17.4	15.2	13.6	87.86	83.44	89.47	15.40				17.5
7539-1	do	Ostraia Sopka, near Kiakhta.	25		17.9	16.0	12.3	89.39	72.57	76.88	15.40				7.7
Specimens			(8)		(10)	(10)	(10)	(10)	(10)	(10)	(10)				(9)
Totals			232		181.4	152.6	131.2				155.05				70.20
Averages			29		18.14	15.26	13.12	84.12	78.56	85.98	15.51				7.8
Minima			24		17.4	14.8	12.3	80.43	72.57	76.88	15.20				7.5
Maxima			40		18.8	16.1	14.0	89.39	84.34	94.59	15.93				8.3



Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. lm.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
7539-10	14.2	---	57.14	10.3	8.0	10.3	65.0	48.0	3.6	3.5	3.9	3.8	92.31	92.11	5.3	2.7	50.64	5.6	6.5	86.15
7539-5	14.0	---	57.14	10.3	8.8	10.0	65.0	48.0	3.8	3.8	3.9	3.8	97.44	100.0	5.6	2.5	44.64	5.3	6.1	86.89
7539-17	13.8	---	57.14	9.9	8.9	10.0	68.5	54.0	3.4	3.5	3.7	3.6	91.89	97.22	5.6	2.5	44.64	5.3	6.1	86.89
7539-9	13.2	---	58.33	9.7	8.8	10.0	69.0	60.0	3.6	3.6	3.8	3.6	94.74	100.0	5.4	2.35	43.52	5.5	6.6	83.93
7003-1	14.6	---	55.48	10.6	9.2	10.2	64.5	51.5	3.3	3.35	4.1	3.9	80.49	85.90	5.55	2.7	48.65	5.6	6.6	84.85
7539-18	15.0	---	55.33	9.6	8.5	9.8	66.0	57.5	3.75	3.8	4.0	3.9	93.76	97.44	5.75	2.7	46.96	5.4	7.1	76.06
7539-16	14.1	---	54.61	9.6	8.6	10.2	71.0	55.5	3.35	3.4	4.0	3.8	82.75	89.47	5.65	2.6	46.02	5.1	6.6	77.27
7539-6	13.8	---	55.80	9.9	8.7	9.9	67.0	50.5	3.55	3.65	3.7	3.6	95.96	101.39	5.6	2.8	60.00	5.5	6.8	80.88
7874-3	13.9	---	53.96	10.3	9.2	10.7	72.0	54.0	3.45	3.5	4.05	4.0	85.19	87.50	5.4	2.45	45.57	5.4	6.3	85.71
7539-1	14.2	---	54.23	10.2	8.9	9.7	62.5	48.5	3.7	3.75	3.65	3.6	101.37	104.17	5.55	2.55	45.95	5.6	7.1	78.87
Specimens	(10)	---	(9)	(9)	(10)	(10)	(9)	(9)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(9)	(9)	(9)
Totals	140.8	---	55.47	90.10	88.60	100.70	605.50	479.5	35.50	35.85	38.80	37.60	91.49	96.35	55.40	25.85	46.65	49.00	59.70	82.08
Averages	14.1	---	55.47	10.0	8.86	10.1	67.3	53.3	3.55	3.59	3.88	3.76	91.49	96.35	5.54	2.59	46.65	5.45	6.63	82.08
Minima	13.2	---	53.96	9.6	8.5	9.6	62.5	48.0	3.3	3.35	3.65	3.6	80.49	85.90	5.3	2.45	43.52	5.1	6.1	76.06
Maxima	15.0	---	58.33	10.6	9.2	10.7	72.0	60.0	3.8	3.8	4.1	4.0	101.37	104.17	5.75	2.8	50.94	5.6	7.1	86.89

1 Near.



## SIBERIA: BURIAT (U.S.N.M. SERIES)

## FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
283625	(A. H.) U.S.N.M.	Near Troickosavsk.	70	---	17.7	13.8	12.7	78.0	80.6	---	14.73	1,450	---	11.3	7.4
283704	do	do	26	---	18.2	14.3	13.2	78.6	81.2	---	15.23	1,335	---	---	---
278709	do	do	70	---	17.9	14.5	12.2	81.0	75.3	---	14.87	1,340	---	---	---
283602	do	do	30	---	17.3	14.2	12.6	82.1	80.0	---	14.70	1,350	---	---	---
283611	do	do	40	---	18.0	14.9	12.6	82.8	76.6	---	15.17	1,370	---	---	---
283610	do	do	50	---	17.3	14.4	12.5	83.2	78.9	---	14.73	1,300	---	---	---
283619	do	do	35	---	16.8	14.0	12.1	83.3	78.6	---	14.30	1,210	---	---	---
283617	do	do	35	---	16.5	13.8	12.9	83.6	85.1	---	14.40	1,470	---	---	---
278703	do	do	55	Asymmetrical	17.4	14.7	12.3	84.5	76.7	---	14.80	---	---	12.6	7.7
283601	do	do	35	---	17.6	15.0	12.4	85.2	76.1	---	15.00	1,410	---	---	---
283702 (large ♀)	do	do	40	---	17.8	15.4	12.4	85.5	74.7	---	15.20	1,415	---	---	---
278712	do	do	55	---	17.0	14.9	12.4	87.7	77.7	---	14.77	1,350	---	---	---
283603	do	do	30	---	17.1	15.2	12.5	88.9	77.4	---	14.93	1,440	---	---	---
283626	do	do	60	---	17.3	15.4	12.7	89.0	77.7	---	15.13	---	---	---	---
Specimens.			(14)		(14)	(14)	(14)	(14)	(14)		(14)	(12)		(4)	(10)
Totals.			631		243.9	204.5	175.5	83.85	78.28		207.96	16,440		48.80	72.90
Averages.			45.1		17.42	14.61	12.54	85.85	78.28		14.85	1,370		12.20	7.29
Minima.			26		16.5	13.8	12.1	78.0	74.7		14.30	1,210		11.3	6.6
Maxima.			70		18.2	15.4	13.2	89.0	85.1		15.23	1,470		12.7	7.9



Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index	Lower Jaw—Height at Symphysis
283625	13.1	86.3	56.5	8.9	8.2	9.7	70.5	63.0	3.3	3.35	3.5	3.5	94.3	95.7	5.3	2.6	49.1	5.1	6.3	81.0	3.05
283704	13.3				8.0	9.7			3.6	3.6	3.6	3.5	100.0	102.9	5.35	2.7	50.5				3.2
283709	13.8		56.5	9.1	8.2	9.9	71.0	59.5	3.65	3.7	3.9	3.8	93.6	97.4	5.6	2.75	49.1	4.9	6.5	75.4	
283602						9.8															
283611	13.1		50.4	9.4	8.4	9.6	71.0	54.0	3.3	3.35	3.7	3.6	89.2	91.7	4.7	2.35	50.0	4.7	6.1	77.1	
283610	13.4		51.5	9.0	8.2	9.1	68.5	56.0	3.3	3.35	3.7	3.7	89.2	90.5	5.15	2.4	46.6	4.8	6.1	78.7	
283619	12.8		53.9	9.5	8.6	9.9	72.5	57.0	3.25	3.2	3.6	3.55	90.3	90.1	5.1	2.6	51.0	4.8	6.1	78.7	
283617			57.5	9.5	8.1	9.5	66.0	47.5	3.5	3.5	3.9	3.9	89.7	89.7	5.5	2.6	47.3	5.3	15.9	89.8	3.05
278703	13.4	94.0																			
283601	13.3		51.9	9.5	8.4	9.4	67.5	52.0	3.45	3.35	3.8	3.75	90.8	89.3	4.9	2.5	51.0	4.9	6.4	76.6	
283702 ♀	13.9	91.4	56.8	10.2	8.7	10.1	66.5	43.5	3.5	3.5	3.8	3.75	92.1	93.3	5.85	2.8	47.9	5.2	6.5	80.0	3.2
278712	14.3	85.3	51.7	10.3	9.2	10.0	66.5	53.0	3.55	3.6	4.15	4.2	85.5	85.7	5.4	2.85	52.8	5.5	6.7	82.1	3.2
283603	14.0		52.9	9.7	8.4	9.5	66.0	48.0	3.6	3.4	3.65	3.8	87.2	89.5	5.3	2.45	46.2	5.5			
283626	13.8				8.0	9.6			3.4	3.4	3.9	3.8	87.2	89.5	5.4	2.9	53.7				
Specimens	(12)	(4)	(16)	(10)	(12)	(14)	(10)	(10)	(12)	(11)	(12)	(11)	(12)	(11)	(12)	(12)	(12)	(9)	(9)	(9)	(5)
Totals	162.2			95.10	100.4	135.3	686.0	533.5	41.4	37.85	45.2	41.05			63.55	31.5		43.20	56.60		13.70
Averages	13.52	89.21	53.96	9.51	8.37	9.66	68.60	53.35	3.45	3.44	3.77	3.73	91.59	92.20	5.30	2.63	49.57	5.02	6.29	79.86	3.14
Minima	12.8	85.3	50.4	8.9	8.0	9.1	66.0	43.5	3.25	3.2	3.5	3.5	85.5	85.7	4.7	2.35	46.2	4.7	5.9	75.4	3.05
Maxima	14.3	94.0	57.5	10.3	9.2	10.1	72.5	63.0	3.65	3.7	4.15	4.2	100.0	102.9	5.85	2.9	53.7	5.5	6.7	89.8	3.2

1 Near.



## SIBERIA: BURIAT (IRKUTSK SERIES)

## FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella and maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
7609-1	Irkutsk Mus.	(?) Ostraia Sopka, near Kiakhta.	Old.	---	17.8	14.2	12.8	79.78	80.00	90.14	14.93	---	---	---	7.4
6020-15	do.	do.	35	---	17.6	14.4	13.0	81.82	81.25	90.28	15.00	---	---	---	---
7609-12	do.	do.	20	---	17.5	14.9	13.0	83.24	80.25	87.25	15.13	---	---	---	---
7609-2	do.	do.	35	---	16.8	14.0	12.0	83.33	77.92	85.71	14.27	---	---	---	7.1
5531-14	do.	do.	Old	---	17.4	14.6	12.4	83.91	77.50	84.93	14.80	---	---	---	6.9
6020-5	do.	Sulka	25	---	16.6	14.7	13.2	88.55	84.35	89.80	14.83	---	---	---	7.4
5531-11	do.	Ostraia Sopka, near Kiakhta.	Elderly	---	17.0	15.2	12.4	89.41	77.02	81.58	14.87	---	---	---	---
5531-8	do.	do.	25	---	16.8	15.2	11.7	90.48	73.19	76.97	14.57	---	---	---	6.9
5531-13	do.	do.	35	---	16.8	15.2	12.9	90.48	80.63	84.87	14.97	---	---	---	7.3
5531-7	do.	do.	Elderly	---	16.6	15.2	12.6	91.57	79.95	82.89	14.80	---	---	---	7.4
Specimens	---	---	(6)	---	(10)	(10)	(10)	(10)	(10)	(10)	(10)	---	---	(7)	(7)
Totals	---	---	175	---	170.9	147.6	123.0	---	---	---	148.17	---	---	---	50.4
Averages	---	---	29	---	17.09	14.76	12.60	86.26	79.10	85.37	14.81	---	---	---	7.2
Minima	---	---	20	---	16.6	14.0	11.7	79.78	73.13	76.97	14.27	---	---	---	6.9
Maxima	---	---	35	---	17.8	15.2	13.2	91.57	84.35	90.28	15.13	---	---	---	7.4



Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch.—Length max. im.	Upper Alveolar Arch.—Breadth max. im.	Upper Alveolar Arch.—Index
7609-1	14.2	—	54.81	9.5	9.3	10.4	70.0	55.0	3.8	3.7	4.0	3.9	95.0	94.87	5.6	2.9	51.79	5.5	6.6	83.33
6020-15	13.5	—	—	—	8.4	9.8	—	—	3.6	3.55	4.1	4.0	87.80	83.75	5.3	2.75	51.89	—	—	—
7609-12	13.9	—	51.08	10.6	9.4	10.4	69.0	51.0	3.5	3.4	3.9	3.8	89.74	89.47	5.15	2.65	51.46	5.4	6.5	82.08
7609-2	13.1	—	62.67	9.8	8.5	9.1	63.5	46.5	3.4	3.5	3.7	3.6	91.89	97.22	4.95	2.7	54.55	5.3	6.0	88.33
5531-14	13.3	—	—	—	8.9	10.0	—	—	3.6	3.6	3.8	3.8	94.74	94.74	5.6	2.85	50.89	—	—	—
6020-5	13.6	—	54.41	9.7	8.5	9.8	68.5	48.5	3.5	3.55	3.9	3.7	89.74	93.95	5.55	2.55	45.95	5.5	6.5	84.62
5531-11	13.6	—	—	—	8.5	9.4	—	—	3.35	3.4	3.9	3.8	85.90	89.47	5.05	2.8	55.45	—	—	—
5531-8	14.2	—	48.59	9.3	8.1	9.0	65.5	47.0	3.4	3.6	3.9	3.9	87.18	92.31	5.1	3.1	60.78	4.9	6.7	73.13
5531-13	14.3	—	51.05	—	7.6	9.4	—	—	3.25	3.3	3.6	3.55	90.28	92.96	—	—	—	4.6	6.3	73.02
5531-7	13.5	—	54.81	—	8.5	9.6	—	—	3.8	3.7	4.1	3.9	92.68	94.87	5.2	2.7	51.92	5.0	6.3	79.37
Specimens	(10)	—	(7)	(5)	(10)	(10)	(5)	(5)	(10)	(10)	(10)	(10)	(10)	(10)	(9)	(9)	(9)	(7)	(7)	(7)
Totals	137.2	—	—	48.9	85.7	99.6	336.5	248.0	35.29	35.30	33.90	37.95	—	—	47.50	25.00	—	36.20	44.90	—
Averages	13.72	—	50.10	9.78	8.57	9.69	6.73	49.6	3.52	3.53	3.89	3.80	90.49	93.02	5.28	2.78	52.63	5.17	6.41	80.62
Minima	13.1	—	48.59	9.3	7.6	9.0	63.5	46.5	3.25	3.3	3.6	3.55	85.90	88.75	4.95	2.55	45.95	4.6	6.0	73.02
Maxima	14.3	—	54.81	10.6	9.4	10.4	70.0	55.0	3.8	3.7	4.1	4.0	95.0	97.22	5.6	3.1	60.78	5.5	6.7	88.33



## SIBERIA: BURIAT

(Summary)

## MALES

	Approximate age of subject	Diam. anterior-posterior maxim. (glabella ad maxim.)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Cranial Module	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion
Specimens	(27)	(29)	(29)	(28)	(29)	(28)	(28)	(8)	(24)	(27)	(8)	(24)	(24)	(28)	(28)
Totals	1,054	523.6	436.5	367.9	83.37	79.32	431.81	101.8	184.8	377.7	90.73	55.05	237.5	246.5	279.7
Averages	39	18.06	15.05	13.14	77.5	72.57	15.42	12.73	7.70	14.0	82.0	50.4	9.90	8.80	9.90
Minima	24	17.3	14.0	12.3	82.39	84.4	15.00	11.4	7.0	13.2	101.48	60.7	8.9	8.1	9.4
Maxima	75	19.2	16.2	14.0			16.20	13.7	8.3	15.0			10.6	9.6	10.7

## FEMALES

	Approximate age of subject	Diam. anterior-posterior maxim. (glabella ad maxim.)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Cranial Module	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion
Specimens	(20)	(24)	(24)	(24)	(24)	(24)	(24)	(4)	(17)	(22)	(4)	(17)	(15)	(22)	(24)
Totals	806	414.8	352.1	301.5	84.88	78.63	356.13	48.80	123.3	299.4	89.21	53.33	144.0	186.1	232.2
Averages	40.3	17.28	14.67	12.56	78.0	73.13	14.84	12.20	7.25	13.61	85.3	48.59	9.60	8.46	9.68
Minima	20	16.5	13.8	11.7	91.57	86.1	14.27	11.3	6.6	12.8	94.0	57.5	8.9	7.6	9.1
Maxima	70	18.2	15.4	13.2			15.23	12.7	7.9	14.3			10.6	9.4	10.4



## MALES

	Facial Angle	Alveolar Angle	Orbits— Height, right	Orbits— Height, left	Orbits— Breadth, right	Orbits— Breadth, left	Orbital Index, right	Orbital Index, left	Nose— Height	Nose— Breadth maxim.	Nasal Index	Upper Alveolar Arch— Length maxim.	Upper Alveolar Arch— Breadth maxim.	Upper Alveolar Arch— Index	Lower Jaw— Height at Sym- physis
Specimens.....	(24)	(24)	(20)	(28)	(26)	(28)	(26)	(28)	(28)	(28)	(28)	(24)	(24)	(24)	(8)
Totals.....	1,615.0	1,277.0	90.50	97.65	99.2	105.25	91.23	92.78	153.25	73.85	48.19	130.0	158.6	81.97	32.25
Averages.....	67.29	53.21	3.48	3.49	3.82	3.76	80.49	85.0	5.47	2.64	43.52	5.42	6.61	75.4	4.03
Minima.....	62.0	43.5	3.05	3.05	3.5	3.5	101.5	104.17	5.0	2.35	43.52	4.9	5.9	75.4	3.1
Maxima.....	76.5	61.0	3.8	3.85	4.1	4.05	101.5	104.17	6.0	3.0	56.9	5.9	7.1	91.5	4.1

## FEMALES

	(15)	(15)	(22)	(21)	(22)	(21)	(22)	(21)	(21)	(21)	(21)	(16)	(16)	(16)	(5)
Specimens.....	(15)	(15)	(22)	(21)	(22)	(21)	(22)	(21)	(21)	(21)	(21)	(16)	(16)	(16)	(5)
Totals.....	1,022.5	781.5	76.6	73.15	84.1	79.0	91.08	92.59	111.05	56.5	50.83	81.4	101.5	80.20	15.70
Averages.....	68.17	52.10	3.48	3.48	3.82	3.76	85.5	85.7	5.29	2.69	45.55	5.09	6.34	73.02	3.14
Minima.....	63.5	43.5	3.25	3.2	3.5	3.5	100.0	102.9	4.7	2.35	45.55	4.6	5.9	73.02	3.05
Maxima.....	72.5	63.0	3.8	3.7	4.15	4.2	100.0	102.9	5.85	3.1	60.78	5.5	6.7	89.8	3.2



SIBERIA: ULCHI—D  
MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
8270	Moscow Mus.	Mouth of Amur River	Mid-aged	---	19.8	14.2	13.6	71.72	80.0	---	15.87	---	---	12.8	27.6
8275	do	do	Elderly	---	18.0	13.3	14.0	73.89	89.46	---	15.10	---	---	---	7.8
8264	do	do	do	---	18.8	14.0	13.0	74.47	79.27	---	15.27	---	---	11.9	7.9
8281	do	do	do	---	18.0	13.8	13.1	76.67	82.59	---	14.97	---	---	---	7.5
Specimens	---	---	---	---	(4)	(4)	(4)	(4)	(4)	---	(4)	---	---	(2)	(4)
Totals	---	---	---	---	74.60	55.3	53.7	74.15	82.68	---	61.21	---	---	24.70	30.80
Averages	---	---	---	---	18.65	13.83	13.43	74.15	82.68	---	15.30	---	---	12.35	7.70
Minima	---	---	---	---	18.0	13.3	13.0	71.7	79.3	---	14.97	---	---	---	7.5
Maxima	---	---	---	---	19.8	14.2	14.0	76.7	89.5	---	15.87	---	---	---	7.9

## FEMALES

8255	Moscow Mus.	Mouth of Amur River	Old	---	17.9	13.4	12.6	74.86	80.51	---	14.63	---	---	---	---
8261	do	do	do	---	17.6	13.2	12.3	75.0	79.87	---	14.37	---	---	---	---
8258	do	do	Mid-aged	---	18.0	13.8	12.8	76.67	80.50	---	14.87	---	---	---	7.1
8277	do	do	40	---	17.8	13.8	12.2	77.53	77.22	---	14.60	---	---	---	7.2
8282	do	do	25	---	18.2	14.3	12.8	78.57	78.77	---	15.10	---	---	---	27.3
8255	do	do	40	---	18.2	14.4	12.6	79.12	77.30	---	15.07	---	---	12.1	7.8
8251	do	do	25	---	17.6	14.0	12.4	79.55	78.48	---	14.67	---	---	---	7.3
8259	do	do	35	---	17.2	13.8	12.6	80.23	81.29	---	14.53	---	---	---	7.0
8260 (small, perhaps ♀)	do	do	35	---	17.2	13.8	12.8	80.23	82.58	---	14.60	---	---	11.2	7.1
8269	do	do	Mid-aged	---	17.4	14.0	12.4	80.46	78.98	---	14.60	---	---	---	7.2
8274	do	do	Old	---	17.6	14.2	13.5	80.68	84.91	---	15.10	---	---	---	---
8256	do	do	Elderly	---	17.4	14.2	12.6	81.61	79.75	---	14.73	---	---	12.7	8.0
8271	do	do	35	---	17.1	14.0	12.3	81.87	79.10	---	14.47	---	---	---	7.3
Specimens	---	---	(13)	---	(13)	(13)	(13)	(13)	(13)	---	(13)	---	---	(3)	(10)
Totals	---	---	229.2	---	180.9	130.9	163.9	78.93	79.76	---	191.34	---	---	36.0	73.3
Averages	---	---	45.8	---	17.63	13.92	12.61	78.93	79.76	---	14.72	---	---	12.0	7.33
Minima	---	---	24	---	17.1	13.2	12.2	74.86	77.22	---	14.37	---	---	11.2	7.0
Maxima	---	---	70	---	18.2	14.4	13.5	81.87	84.91	---	15.10	---	---	12.7	8.0



## MALES

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length max.	Upper Alveolar Arch— Breadth max.	Upper Alveolar Arch— Index
8270.....	13.6	94.12	55.88	10.5	9.5	10.2	66.0	53.5	3.25	3.25	3.9	3.9	83.33	83.35	5.8	2.9	50.0	5.7	6.7	85.07
8275.....	14.0	55.71	55.71	10.6	9.4	10.8	70.0	49.0	3.85	3.85	4.1	4.05	93.90	93.83	5.95	2.7	45.33	5.4	6.7	80.60
8264.....	13.7	57.66	57.66	10.2	8.9	10.4	68.5	49.5	3.45	3.45	4.0	3.9	86.25	86.46	5.85	2.8	47.86	5.2	6.7	77.61
8281.....	13.8	86.23	54.35	9.9	8.8	10.5	72.5	51.0	3.6	3.5	3.8	3.9	94.74	89.74	5.65	2.65	46.90			
Specimens.....	(4)	(2)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(3)	(3)	(3)
Totals.....	55.10	41.90	41.20	36.60	36.60	41.90	277.0	203.0	14.15	14.0	15.8	15.75	89.66	88.89	23.25	11.05	47.53	16.30	20.1	
Averages.....	13.78	90.15	55.90	10.30	9.15	10.48	69.25	50.75	3.54	3.50	3.95	3.94	88.89	88.89	5.81	2.76	45.4	5.43	6.7	81.09
Minima.....	13.6	54.4	54.4	9.9	8.8	10.2	66.0	49.0	3.25	3.25	3.8	3.9	83.3	83.3	5.65	2.65	45.4	5.2		77.6
Maxima.....	14.0	57.7	57.7	10.6	9.5	10.8	72.5	53.5	3.85	3.8	4.1	4.05	94.7	93.8	5.95	2.9	50.0	5.7		85.1

## FEMALES

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length max.	Upper Alveolar Arch— Breadth max.	Upper Alveolar Arch— Index
8265.....	13.0	87.05	56.12	10.7	9.3	10.6	71.0	48.5	3.6	3.6	4.1	4.0	92.31	92.31	5.2	2.5	48.08	5.6	6.7	83.58
8261.....	12.3	55.47	55.47	9.9	8.6	9.8	68.0	46.5	3.35	3.35	3.8	3.8	88.16	88.16	4.9	2.7	55.10	5.0	6.1	81.97
8268.....	12.8	54.55	54.55	9.8	8.6	9.6	66.5	50.0	3.45	3.3	3.7	3.6	87.84	91.67	5.2	3.0	57.69	5.0	6.3	79.37
8277.....	13.2	52.90	52.90	9.7	8.9	10.4	74.0	60.5	3.55	3.5	3.8	3.85	90.79	90.91	5.15	2.55	49.51	4.9	6.5	75.38
8282 <sup>3</sup> .....	13.8	56.12	56.12	10.7	9.3	10.6	71.0	48.5	3.6	3.6	4.1	4.0	92.31	92.31	5.2	2.5	48.08	5.6	6.7	83.58
8255 <sup>4</sup> .....	13.9	55.12	55.12	10.7	9.4	10.6	67.5	45.5	3.8	3.45	4.1	4.0	86.59	93.75	5.55	2.9	52.25	5.4	6.6	81.82
8251.....	13.6	53.68	53.68	10.4	9.0	10.6	67.5	45.5	3.6	3.6	4.1	4.0	86.59	93.75	5.55	2.9	52.25	5.4	6.6	81.82
8259 <sup>5</sup> .....	12.7	55.12	55.12	9.7	8.4	9.6	67.5	45.5	3.45	3.45	3.9	3.8	84.62	90.79	4.85	2.35	48.45	5.15	6.3	81.75
8260.....	13.4	52.99	52.99	10.5	9.0	10.0	66.0	46.0	3.3	3.75	4.1	4.0	86.59	93.75	5.55	2.9	52.25	5.4	6.6	81.82
8269 <sup>6</sup> .....	13.4	53.73	53.73	9.1	8.3	9.5	70.0	57.0	3.4	3.4	3.9	3.9	87.18	87.74	5.2	3.15	60.58	4.8	6.7	71.64
8274.....	13.8	62.02	62.02	9.9	8.8	10.6	66.0	59.5	3.5	3.5	3.9	3.9	89.74	89.74	5.4	2.6	48.15	5.4	6.6	81.82
8266 <sup>7</sup> .....	12.9	57.94	57.94	9.6	8.4	9.9	61.0	50.0	3.5	3.55	3.7	3.7	94.59	95.95	5.2	2.5	48.08	5.3	6.5	81.54
8271.....	12.6	57.94	57.94	9.6	8.4	9.9	61.0	50.0	3.5	3.55	3.7	3.7	94.59	95.95	5.2	2.5	48.08	5.3	6.5	81.54
Specimens.....	(13)	(3)	(10)	(10)	(13)	(13)	(10)	(10)	(13)	(12)	(13)	(12)	(13)	(13)	(13)	(13)	(13)	(10)	(10)	(10)
Totals.....	171.3	89.55	55.45	99.3	114.3	128.5	673.0	513.5	45.45	42.1	50.90	46.45	88.55	88.55	68.55	34.35	52.35	65.0	65.0	
Averages.....	13.18	89.55	55.45	9.93	8.79	9.88	67.30	51.35	3.50	3.51	3.92	3.87	89.29	89.64	5.27	2.64	50.11	5.24	6.50	80.54
Minima.....	12.3	54.4	54.4	9.1	8.3	8.8	61.0	45.50	3.25	3.3	3.7	3.6	84.62	85.0	4.85	2.35	46.60	4.8	6.1	71.64
Maxima.....	13.9	98.45	62.02	10.7	9.8	10.6	74.0	60.5	3.8	3.8	4.1	4.0	94.59	95.95	5.55	3.15	60.58	5.8	6.7	86.67

<sup>1</sup> Allowance made for wear of teeth, where needed.<sup>2</sup> Near.<sup>3</sup> Right upper median incisor lost long ago.<sup>4</sup> Moderate maxillary hyperostoses.<sup>5</sup> Maxillary hyperostoses, pm<sub>2</sub> to M<sub>3</sub>.<sup>6</sup> Left upper median incisor lost long ago.<sup>7</sup> Very pronounced maxillary, and slight mandibular, hyperostoses.



## SIBERIA: ULCHI—B

## MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
8263	Moscow Mus.	Mouth of Amur River.	Elderly	---	17.8	14.6	14.0	82.02	86.42	---	15.47	---	---	---	8.5
8266	do	do	do	---	17.1	14.2	13.5	83.04	86.26	---	14.93	---	---	---	7.9
8267	do	do	Mid-aged	---	17.8	14.8	13.8	83.15	84.06	---	15.47	---	---	14.0	8.5
8272	do	do	40	---	17.4	15.0	13.8	86.21	85.19	---	15.40	---	---	13.7	8.6
8273	do	do	30	---	18.2	15.6	12.8	85.71	75.74	---	15.53	---	---	---	7.6
Specimens	---	---	---	---	(5)	(5)	(5)	(5)	(5)	---	(5)	---	---	(2)	(5)
Totals	---	---	---	---	88.3	74.2	67.9	---	---	---	76.8	---	---	27.7	41.10
Averages	---	---	---	---	17.66	14.84	13.58	84.03	83.67	---	15.36	---	---	13.85	8.22
Minima	---	---	---	---	17.1	14.2	12.8	82.02	75.74	---	14.93	---	---	13.7	7.6
Maxima	---	---	---	---	18.2	15.6	14.0	86.21	86.42	---	15.53	---	---	14.0	8.6

## FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
8279	Moscow Mus.	Mouth of Amur River.	24	---	16.7	14.2	12.5	85.03	80.91	---	14.47	---	---	---	7.2
8282	do	do	50	---	16.4	14.2	12.4	86.59	81.05	---	14.33	---	---	---	6.9



## MALES

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
8263	14.2	---	49.86	11.0	9.3	10.4	62.5	51.0	3.5	3.55	4.1	4.2	85.37	84.62	5.35	2.65	49.53	6.0	7.2	83.33
8266	14.3	---	55.24	10.7	9.2	10.0	63.0	49.5	3.65	3.6	3.95	3.9	92.41	92.31	5.3	2.75	51.89	---	---	---
8267	14.3	97.90	59.44	11.0	9.7	11.0	67.0	55.0	3.5	3.45	3.9	3.8	89.74	90.79	5.85	3.0	51.28	5.6	7.1	78.87
8272	15.3	89.54	56.21	10.9	9.5	10.4	63.0	54.5	3.4	3.5	4.15	4.15	81.93	84.34	5.65	2.45	43.36	5.7	7.0	81.43
8273	15.0	---	50.67	9.9	8.8	10.3	70.5	51.5	---	3.6	---	4.0	---	90.0	5.7	2.5	43.86	5.0	6.8	73.53
Specimens	(5)	(2)	(5)	(5)	(5)	(5)	(5)	(5)	(4)	(5)	(4)	(5)	(4)	(5)	(5)	(5)	(5)	(4)	(4)	(4)
Totals	73.10	---	---	53.5	46.5	52.1	326.0	261.5	14.05	17.70	16.10	20.05	---	---	27.85	13.35	---	22.3	28.10	---
Averages	14.62	93.58	56.22	10.7	9.3	10.42	65.20	52.30	3.51	3.54	4.03	4.01	87.27	88.28	5.57	2.67	47.94	5.88	7.03	79.36
Minima	14.2	89.54	49.86	9.9	8.8	10.0	62.5	49.5	3.4	3.45	3.9	3.8	81.93	84.34	5.3	2.45	43.36	5.0	6.8	73.53
Maxima	15.3	97.90	59.44	11.0	9.7	11.0	70.5	55.0	3.65	3.6	4.15	4.2	92.41	92.31	5.85	3.0	51.89	6.0	7.2	83.33

## FEMALES

8279	13.6	---	52.94	10.4	9.2	9.8	65.0	53.0	3.4	3.5	4.0	3.9	85.0	89.74	4.9	2.65	54.08	5.5	6.5	84.62
8282	13.7	---	50.36	9.8	8.6	9.4	65.5	49.0	3.35	3.3	4.05	3.95	82.72	83.54	4.95	2.5	50.51	---	---	---



## SIBERIA: GILIAK—LB (SAKHALIN)

## MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max., (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
5106-2	Leningrad Mus.	Sakhalin Island.	---	---	18.2	14.4	13.8	79.12	84.66	---	15.47	---	---	---	7.4
840	do	do	---	---	18.4	14.6	14.0	79.95	84.85	---	15.67	---	---	---	7.6
5106-4 <sup>1</sup>	do	do	---	---	18.4	15.0	14.2	81.52	86.03	---	15.87	---	---	13.4	8.2
843 <sup>2</sup>	do	do	---	---	18.2	15.0	13.6	82.42	87.93	---	15.60	---	---	---	8.2
842	do	do	---	---	18.1	15.0	13.0	82.87	88.55	---	15.37	---	---	---	8.2
850	do	do	---	---	17.9	15.3	14.0	85.47	84.34	---	15.73	---	---	---	---
5106-5	do	do	---	---	18.0	15.6	13.4	86.67	79.76	---	15.67	---	---	13.2	8.3
852	do	do	---	---	17.5	15.2	13.0	86.83	79.51	---	15.23	---	---	---	---
3926-1 <sup>4</sup>	do	do	---	---	17.1	15.2	12.4	88.89	76.78	---	14.90	---	---	---	7.4
Specimens	---	---	---	---	(9)	(9)	(9)	(9)	(9)	---	(9)	---	---	(2)	(7)
Totals	---	---	---	---	161.3	135.3	121.4	---	---	---	139.51	---	---	26.6	55.3
Averages	---	---	---	---	17.98	15.03	13.49	83.62	81.72	---	15.50	---	---	13.3	7.90
Minima	---	---	---	---	17.1	14.4	12.4	79.12	76.78	---	14.90	---	---	13.2	7.4
Maxima	---	---	---	---	18.4	15.6	14.2	88.89	85.03	---	15.87	---	---	13.4	8.3



## FEMALES

5106-8	Leiningrad Mus.	Sakhalin Island	17.8	13.2	12.4	74.16	80.0	14.47	7.6
845	do	do	17.2	13.8	13.1	80.23	84.52	14.70	7.5
844	do	do	17.4	14.2	12.3	81.61	77.85	14.63	6.9
5106-9	do	do	17.0	13.9	13.2	81.76	85.44	(10.5)	6.1
5106-7	do	do	17.5	14.4	13.0	82.29	81.50	14.97	7.8
849	do	do	16.7	13.8	12.2	82.63	80.0	14.23	7.3
841	do	do	17.0	14.3	12.5	84.12	79.87	14.60	7.3
5106-6	do	do	17.1	14.5	12.4	84.80	78.48	14.67	6.7
838	do	do	16.8	14.4	12.8	86.71	82.05	14.67	7.6
836	do	do	17.4	15.0	12.5	86.21	77.16	14.97	7.3
839	do	do	16.1	14.0	10.8	86.96	71.76	13.63	7.4
851	do	do	17.2	15.0	(Low)	87.21	83.97	14.77	7.4
5106-3	do	do	16.6	14.6	13.1	87.95	82.76	15.03	7.4
848	do	do	16.9	15.0	13.2	88.76	82.76	15.03	7.4
Specimens			(14)	(14)	(13)	(14)	(13)	(13)	(10)
Totals			238.70	200.1	163.5			190.04	72.20
Averages			17.05	14.29	12.58	83.83	80.42	14.62	7.22
Minima			16.1	13.2	10.8	74.16	71.76	13.63	6.1
Maxima			17.8	15.0	13.2	88.76	85.44	15.03	7.8

See footnotes at end of table.



SIBERIA: GILIAK—LB (SAKHALIN)—Continued  
MALES

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch.—Length max.	Upper Alveolar Arch.—Breadth max.	Upper Alveolar Arch.—Index
5106-2	13.8		53.62	10.4	9.4	10.3	68.0	54.5	3.55	3.45	4.0	4.0	88.75	86.25	5.5	2.55	46.86	5.6	6.9	81.16
840	14.2		53.62	10.8	9.8	11.0	71.0	61.0	3.15	3.25	3.9	3.9	80.77	83.33	5.05	2.25	44.65	5.8	7.2	80.66
5106-4 <sup>1</sup>	15.1	88.74	54.90	10.5	9.3	10.6	67.5	56.0	3.8	3.8	4.1	4.1	92.68	92.68	5.7	2.8	49.12	6.0	7.6	78.95
843 <sup>2</sup>	14.4		56.94	10.9	9.6	10.8	67.0	54.0	3.45	3.5	4.0	4.0	84.15	87.50	5.6	2.7	48.21	5.4	6.7	80.60
842	14.2		47.75	10.9	9.6	10.5	64.5	56.0	3.4	3.45	4.0	4.0	85.0	86.25	5.3	2.6	49.06	5.8	6.9	84.06
850	10.7																			
5106-5	14.6	90.41	56.85	10.9	9.5	10.5	64.5	51.0	3.55	3.6	3.8	3.8	93.42	94.74	5.8	2.75	47.41	5.8	6.9	84.06
852						10.0			3.35	3.2	3.9	3.9	85.90	82.05	5.35	2.7	50.47	5.8	6.8	85.29
3926-1 <sup>4</sup>	14.0		52.86	11.0	9.6	9.8	60.5	45.0												
Specimens	(8)	(2)	(7)	(7)	(7)	(8)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)
Totals	111.0			75.40	66.80	83.50	463.0	377.5	24.25	24.25	27.80	27.70	87.23	87.55	38.3	18.35	47.91	40.20	49.0	82.04
Averages	13.88	89.56	55.13	10.77	9.54	10.44	66.14	53.93	3.46	3.46	3.97	3.96	87.23	87.55	5.47	2.62	47.91	5.74	7.0	78.95
Minima	10.7	88.74	47.75	10.4	9.3	9.8	60.5	45.0	3.15	3.2	3.8	3.8	80.77	82.05	5.05	2.25	44.55	5.4	6.7	78.95
Maxima	15.1	90.41	56.94	11.0	9.8	11.0	71.0	61.0	3.8	3.8	4.1	4.1	93.42	94.74	5.8	2.8	50.47	6.0	7.6	85.29



## FEMALES

5106-8	13.3	66.39	9.9	8.6	9.6	65.0	51.0	3.3	3.55	3.7	89.19	91.03	5.25	2.6	49.52	5.0	6.8	73.53
845	13.0	53.08	9.8	8.8	9.4	69.5	60.0	3.5	3.6	3.95	88.61	91.74	5.2	2.4	46.15	5.1	6.1	83.61
844	13.6	(77.21)	9.6	8.8	10.1	76.0	51.5	3.35	3.25	3.8	88.16	85.53	4.85	2.5	51.55	4.6	6.3	82.54
5106-9	13.4	91.79	10.9	9.6	10.2	63.5	52.5	3.45	3.35	3.7	93.24	93.06	5.55	2.8	50.45	6.0	7.2	70.77
849	13.8	62.90	10.6	9.3	9.8	63.0	51.0	3.3	3.35	3.8	86.84	88.16	4.95	2.65	53.54			83.53
5106-6	13.0	49.26	11.1	10.1	10.4	66.5	58.0	3.0	3.0	4.0	97.50	100.0	5.5	2.4	43.64			
838	13.6	55.07	10.3	8.8	9.7	63.5	48.5	3.35	3.4	3.9	78.95	81.08	4.4	2.2	50.0	5.4	6.5	83.08
836	13.8	67.48	10.4	(9.0)	9.0	(58.0)	(48.0)	3.25	3.2	3.75	86.67	88.89	5.0	2.5	50.0	5.6	6.3	88.89
851	12.7	80.96	10.8	9.1	10.1	64.0	41.0	3.5	3.6	3.9	89.74	92.31	5.2	2.5	48.08	5.3	6.5	86.71
5106-3	13.8																	81.54
848																		
Specimens	(10)	(2)	(10)	(10)	(12)	(9)	(9)	(11)	(10)	(11)	(10)	(10)	(11)	(11)	(11)	(9)	(9)	(9)
Totals	134.0		103.1	91.10	118.4	596.0	467.5	37.45	34.2	42.2	37.75	90.60	55.95	27.2	47.70	47.70	58.4	58.4
Averages	13.40	89.34	10.31	9.11	9.87	66.22	51.94	3.4	3.42	3.84	88.74	81.08	5.09	2.47	48.61	5.30	6.49	81.68
Minima	12.7	86.96	9.6	8.6	9.0	63.0	41.0	3.0	3.0	3.7	78.95	81.08	4.4	2.2	43.64	4.6	6.1	70.77
Maxima	13.8	91.79	11.1	10.1	10.4	76.0	60.0	3.9	3.9	4.0	97.50	100.0	5.55	2.8	53.54	6.0	7.2	88.89

<sup>1</sup> Like an Athapascan; somewhat unusual for a Giliak, but +.

<sup>2</sup> Upper median incisors lost long ago.

Near.

<sup>4</sup> Resembles those of Yukagirskaja, Sopka, Samoyeds, etc.; base depressed (*common*, more or less).

\* Upper incisors lost long ago.

• Afeutlike.

† Possibly not quite normal, base impressed.

<sup>8</sup> Allowance made for wear of teeth.



## SIBERIA: GILIAK-D (AMUR)

## MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) 1	Alveol. Pt.-Nasion Height (b)
46153	Leningrad Mus.	Northern Okhotsk Sea.	Adult		18.8	13.2	13.7	70.21	85.63		15.23				7.6
50331	do.	Lower Amur	do.		18.8	14.0	13.6	74.47	82.93		15.47				7.6

## FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) 1	Alveol. Pt.-Nasion Height (b)
50101	Leningrad Mus.	Lower Amur	Adult		18.4	13.5	13.4	73.87	84.01		15.10				6.9



## MALES

Catalog No.	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxim.	Upper Alveolar Arch— Breadth maxim.	Upper Alveolar Arch— Index
46153.....	14.0	.....	54.29	11.3	9.9	11.2	71.0	57.5	3.4	3.55	4.2	4.2	80.95	84.52	5.3	2.5	47.17	6.0	6.7	89.55
50331.....	13.5	.....	56.50	10.4	9.1	10.6	70.0	48.0	3.35	3.4	3.9	3.9	85.90	87.18	5.6	2.75	49.11	5.7	6.9	82.61

## FEMALES

50101.....	13.1	.....	52.67	10.5	9.2	10.0	61.0	49.5	3.25	3.35	4.0	3.8	81.25	88.16	4.75	2.9	61.0	5.6	6.3	88.89

<sup>1</sup> Near.



## SIBERIA: YAKUT

## MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella and max.)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
52824	Leningrad Mus.	Yakutia	Adult		19.6	14.7	14.2	75.0	82.8		16.17				8.4
52827	do	do	do		18.8	14.5	13.8	77.1	82.9		15.70				8.1
52825	do	do	do		17.9	14.6	13.4	81.6	82.5		15.30			13.1	8.0
36702	Moscow Mus.	do	do		18.3	15.0	14.0	82.0	84.1		15.77				
36705	do	do	do		19.0	15.6	13.4	82.1	77.5		16.0				8.1
10773	Leningrad Mus.	do	do		18.2	15.1	12.4	83.0	74.5		15.23			12.5	7.9
36701	Moscow Mus.	do	do		18.6	15.5	13.4	83.3	78.6		15.83			13.0	8.0
Specimens					(7)	(7)	(7)	(7)	(7)		(7)			(3)	(6)
Totals					130.4	105.0	94.6	80.5	80.4		110.0			38.6	48.5
Averages					18.63	15.0	13.51	80.5	80.4		15.71			12.87	8.08
Minima					17.9	14.5	12.4	75.0	74.5		15.23			12.5	7.9
Maxima					19.6	15.6	14.2	83.3	84.1		16.17			13.1	8.4



Catalog No.	Diam. Bizygomatic maxm. (c)	Racial Index, total $\left(\frac{a \times 100}{c}\right)$	Racial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth maxm.	Nasal Index	Upper Alveolar Arch—Length maxm.	Upper Alveolar Arch—Breadth maxm.	Upper Alveolar Arch—Index
52824	14.8	---	56.8	10.5	9.2	10.8	68.5	53.0	3.45	3.5	4.1	4.0	84.2	87.5	5.9	2.75	46.6	5.9	7.0	84.3
52827	13.9	---	68.3	10.2	9.2	10.6	69.5	60.0	3.2	3.35	3.9	3.85	82.1	87.0	5.55	2.9	52.2	5.4	6.5	82.1
52825	14.3	91.6	55.9	11.0	9.6	10.2	62.5	54.5	3.3	3.25	3.75	3.75	88.0	86.7	5.25	2.7	51.4	6.2	6.9	89.9
36702	13.8	---	---	---	8.4	10.0	---	---	3.2	3.15	3.85	3.85	83.1	81.8	5.8	2.3	39.7	---	---	---
36705	15.6	---	51.9	10.3	9.1	10.8	71.0	52.0	3.7	3.7	4.1	4.1	90.2	90.2	6.0	3.15	52.5	5.9	7.4	79.7
10773	14.2	88.0	55.6	9.4	8.2	9.2	63.5	52.0	3.5	3.4	3.8	3.9	92.1	87.2	5.6	2.5	44.6	5.3	6.8	77.9
36701	15.1	86.1	53.0	10.6	9.3	11.0	70.5	51.0	3.6	3.7	4.3	4.3	83.7	86.1	5.8	2.95	50.9	5.7	6.8	82.8
Specimens	(7)	(3)	(6)	(6)	(7)	(7)	(6)	(6)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(6)	(6)	(6)
Totals	101.7	---	---	62.0	63.0	72.6	405.5	322.5	23.95	24.05	27.8	27.75	---	---	39.9	19.25	---	34.4	41.4	---
Averages	14.53	88.5	55.2	10.33	9.0	10.37	67.6	53.8	3.42	3.44	3.97	3.96	86.2	86.7	5.70	2.75	48.2	5.73	6.90	83.1
Minima	13.8	86.1	51.9	9.4	8.2	9.2	62.5	51.0	3.2	3.15	3.75	3.75	82.1	81.8	5.25	2.3	39.7	5.3	6.5	77.9
Maxima	15.6	91.6	58.3	11.0	9.6	11.0	71.0	60.0	3.7	3.7	4.3	4.3	92.1	90.2	6.0	3.15	52.5	6.2	7.4	89.9



## SIBERIA: YUKAGIR

## MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maximum (glabella ad)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, Wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
42556	Leningrad Mus.	Yukagirskaja Sopka.	---	---	19.2	14.8	13.2	77.08	77.65	---	15.73	---	---	13.3	8.0
8107	Moscow Mus.	Korkodon River	---	---	18.2	14.2	13.0	78.02	80.25	---	15.13	---	---	---	---
42555	Leningrad Mus.	Yukagirskaja Sopka.	---	---	18.9	14.8	13.4	78.51	79.53	---	15.70	---	---	12.5	7.9
42558	do	do	---	---	18.0	14.2	12.4	78.89	77.02	---	14.87	---	---	12.9	7.9
42574	do	do	---	---	18.4	14.6	13.6	79.35	82.42	---	15.53	---	---	---	---
42503	do	do	---	---	18.6	14.8	13.4	79.57	80.24	---	15.60	---	---	---	7.6
42562	do	do	---	---	18.2	15.0	12.6	82.42	75.90	---	15.27	---	---	---	7.8
Specimens	---	---	---	---	(7)	(7)	(7)	(7)	(7)	---	(7)	---	---	(3)	(5)
Totals	---	---	---	---	129.5	102.4	91.6	79.1	79.0	---	107.83	---	---	38.7	39.20
Averages	---	---	---	---	18.50	14.63	13.09	77.08	75.90	---	15.40	---	---	12.90	7.84
Minima	---	---	---	---	18.0	14.2	12.4	77.08	75.90	---	14.87	---	---	12.5	7.6
Maxima	---	---	---	---	19.2	15.0	13.6	82.42	82.42	---	15.73	---	---	13.3	8.0

## FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maximum (glabella ad)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, Wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
42568	Leningrad Mus.	Yukagirskaja Sopka.	---	---	18.6	13.8	12.3	74.19	75.93	---	14.90	---	---	---	7.4
42567	do	do	---	---	18.0	13.6	12.8	75.56	81.01	---	14.80	---	---	---	6.8
42560	do	do	---	---	18.8	14.3	12.4	76.06	74.92	---	15.17	---	---	---	7.3
42559	do	do	---	---	18.2	14.2	12.8	78.02	79.01	---	15.07	---	---	---	7.9
42572	do	do	---	---	18.2	14.2	(Low)	78.02	---	---	---	---	---	---	7.4
42557	do	do	---	---	18.3	14.4	(Low)	78.69	---	---	---	---	---	12.0	7.5
42573	do	do	---	---	17.8	14.2	(Med.)	79.78	---	---	---	---	---	---	---
42564	do	do	---	---	18.0	14.4	13.1	80.0	80.86	---	15.17	---	---	---	7.3
42569	do	do	---	---	17.2	13.8	11.8	80.23	76.15	---	14.27	---	---	---	6.7
42551	do	do	---	---	17.9	14.4	12.2	80.45	75.54	---	14.83	---	---	---	7.7
42566 ?	do	do	---	---	17.6	14.4	13.0	81.82	81.25	---	15.00	---	---	---	7.5
42571	do	do	---	---	16.8	13.8	12.2	82.14	79.74	---	14.27	---	---	---	6.3
42565	do	do	---	---	17.4	14.3	12.0	82.18	75.71	---	14.57	---	---	11.8	7.3
Specimens	---	---	---	---	(13)	(13)	(10)	(13)	(10)	---	(10)	---	---	(2)	(12)
Totals	---	---	---	---	232.8	183.8	124.60	78.95	78.0	---	148.05	---	---	23.80	87.10
Averages	---	---	---	---	17.91	14.14	12.46	74.19	74.92	---	14.27	---	---	11.90	7.26
Minima	---	---	---	---	16.8	13.6	11.80	74.19	74.92	---	14.27	---	---	11.8	6.3
Maxima	---	---	---	---	18.8	14.4	13.10	82.18	81.25	---	15.17	---	---	12.0	7.9



## MALES

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxm.	Upper Alveolar Arch— Breadth maxm.	Upper Alveolar Arch— Index
42556	15.0	88.67	53.33	10.0	9.0	10.6	71.0	55.5	3.7	3.6	4.1	4.1	90.24	87.80	5.95	3.0	50.42	5.4	7.0	77.14
8107	13.6	—	—	—	8.4	9.9	—	—	3.4	3.45	3.9	3.9	87.78	88.46	5.2	2.65	50.96	—	—	—
42555	14.8	84.46	53.88	9.8	8.9	10.2	69.0	62.0	3.35	3.4	4.0	3.9	83.75	87.18	5.2	2.55	49.04	5.2	6.7	77.61
42558	14.2	90.85	55.63	10.0	9.0	10.3	68.5	55.5	3.4	3.45	3.9	3.9	87.18	88.46	5.8	2.5	43.10	5.6	6.8	82.35
42574	—	—	—	—	—	10.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
42563	14.4	—	52.78	9.8	8.9	10.3	71.0	60.5	3.3	3.3	3.9	3.9	84.62	84.62	5.35	2.8	52.34	5.5	7.0	78.57
42562	14.2	—	54.93	10.0	8.8	10.0	67.0	51.5	3.3	3.35	3.8	3.75	86.84	89.33	5.6	2.4	42.86	5.1	6.6	77.27
Specimens	(6)	(3)	(5)	(5)	(6)	(7)	(5)	(5)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(5)	(5)	(5)
Totals	86.20	—	—	49.6	53.0	71.4	346.5	285.0	20.45	20.55	23.60	23.45	—	—	33.1	15.9	—	26.8	34.1	—
Averages	14.37	88.0	54.0	9.92	8.83	10.20	69.3	57.0	3.41	3.44	3.93	3.91	86.7	88.0	5.52	2.65	48.0	5.36	6.82	78.6
Minima	13.6	84.46	52.78	9.8	8.4	9.9	67.0	51.5	3.3	3.3	3.8	3.75	83.75	84.62	5.2	2.4	42.86	5.1	6.6	77.14
Maxima	15.0	90.85	55.63	10.0	9.0	10.6	71.0	62.0	3.7	3.6	4.1	4.1	90.24	89.33	5.95	3.0	52.34	5.6	7.0	82.35

## FEMALES

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxm.	Upper Alveolar Arch— Breadth maxm.	Upper Alveolar Arch— Index
42568	12.9	—	57.86	9.9	8.8	10.0	68.5	53.5	3.1	3.0	3.7	3.7	85.78	81.08	5.35	2.65	49.53	5.2	6.5	80.0
42567	13.2	—	51.52	9.2	8.3	10.1	76.5	57.0	3.45	3.55	3.7	3.8	93.24	92.42	4.95	2.5	50.51	4.8	6.1	78.69
42560	14.0	—	52.14	9.5	8.4	10.0	71.5	55.0	—	3.45	3.6	3.6	95.83	95.83	5.1	2.7	52.94	5.3	6.8	77.94
42559	13.9	—	56.83	9.8	8.8	10.4	70.5	57.0	3.55	3.55	3.9	4.0	91.03	88.75	5.75	2.55	44.55	5.5	6.3	87.30
42572	13.2	—	56.06	—	—	—	—	—	3.55	3.6	3.9	3.7	91.03	97.30	5.5	2.5	45.45	5.2	6.2	83.87
42573	13.8	86.96	54.55	—	—	10.4	—	—	3.6	3.6	3.8	3.7	94.74	97.30	5.45	2.5	45.37	5.4	6.5	83.08
42564	13.6	—	53.68	9.9	8.8	9.6	66.0	53.5	3.25	3.1	3.7	3.25	87.84	95.38	5.2	2.5	48.08	5.4	6.4	84.93
42569	12.6	—	63.17	9.0	8.2	9.3	70.5	57.5	3.15	3.15	3.65	3.6	86.80	97.50	4.95	2.55	51.52	5.0	6.7	74.63
42551	13.7	—	56.20	9.3	8.4	9.8	69.5	56.0	3.3	3.35	3.8	3.7	86.81	90.54	5.8	2.9	50.0	5.2	7.3	71.23
42566 <sup>2</sup>	13.4	—	55.97	8.5	7.5	8.9	67.0	55.0	3.4	3.5	3.5	3.5	97.14	97.14	5.4	2.5	46.30	4.8	6.4	75.0
42571	12.4	—	50.81	8.8	8.0	9.0	71.0	56.0	3.2	3.25	3.5	3.55	91.43	91.55	4.7	2.45	52.13	4.7	6.3	74.60
42565	13.2	89.39	55.30	9.7	8.6	9.6	66.5	54.5	3.6	3.6	4.0	3.9	90.0	92.31	5.15	2.8	54.37	5.1	6.6	77.27
Specimens	(12)	(2)	(12)	(10)	(10)	(11)	(10)	(10)	(11)	(10)	(11)	(10)	(10)	(10)	(12)	(12)	(12)	(12)	(12)	(12)
Totals	139.9	—	—	93.6	83.8	107.1	697.5	555.0	37.15	37.60	41.15	36.80	—	—	63.3	31.10	—	61.6	78.10	—
Averages	13.33	88.15	54.47	9.36	8.38	9.74	69.75	55.5	3.38	3.36	3.74	3.68	90.28	91.30	5.28	2.59	49.13	5.13	6.51	78.87
Minima	12.4	86.96	50.81	8.5	7.5	8.9	66.0	53.5	3.1	3.0	3.5	3.25	83.78	81.08	4.7	2.45	44.55	4.7	6.1	71.23
Maxima	14.0	89.39	57.56	9.9	8.8	10.4	76.5	57.5	3.6	3.6	4.0	4.0	97.14	97.30	5.8	2.9	54.37	5.5	7.3	87.30

<sup>2</sup> Vault syphilitic.<sup>1</sup> Near.



SIBERIA: OROCHI  
MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
8617 <sup>1</sup>	Moscow Mus.		Mid-aged		17.8	15.0	13.1	84.27	79.88		15.30				7.4

## FEMALES

8616	Moscow Mus.	(?)	Young adult		17.6	14.3	12.4	81.25	77.74		14.77				6.6
7459 <sup>2</sup>	do.		40		17.6	14.6	12.3	82.95	76.40		14.83			11.6	6.9
889	Voienno-Med. Acad. Leningrad	Imperatorski Bay			16.6	13.2	13.0	79.62	87.25		14.27				



## MALES

Catalog No.	Diam. Bizygomatic maxim. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxm.	Upper Alveolar Arch— Breadth maxm.	Upper Alveolar Arch— Index
8617 <sup>1</sup>	14.8	—	50.0	10.1	9.0	9.8	66.0	55.0	3.4	3.4	4.05	3.9	83.95	87.18	5.2	2.45	47.1	—	—	—

## FEMALES

8616	13.1	—	—	10.4	9.3	10.1	69.0	49.0	—	—	—	—	—	—	4.9	2.5	51.02	5.2	6.4	81.25
7459 <sup>2</sup>	—	—	—	10.0	9.0	10.2	64.5	56.0	3.2	3.3	3.8	3.7	84.21	89.19	4.8	2.35	48.96	5.5	6.6	83.33
889	12.9	89.92	55.49	—	—	9.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—

<sup>1</sup> Samoyed type.<sup>2</sup> Marked intranasal shelves.



## SIBERIA: KORIAK, LAMUT, AND KAMCHADAL

## KORIAK

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
4653 ♂	Moscow Mus.	Kuel River	35	---	18.1	14.2	13.8	78.45	85.45	---	15.37	---	---	---	6.8
4634 ♀	do.	do.	---	---	17.2	13.5	12.5	78.49	81.43	---	14.40	---	---	---	6.8

## LAMUT

4650 (♀) 2	Moscow Mus.	Yakutskala Obl.	50	---	17.8	13.7	12.4	76.97	78.73	---	14.63	---	---	---	7.2
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## KAMCHADAL

893 (♀)	Leningrad Mus.	Kamchatka	---	---	17.4	13.3	13.6	76.44	88.60	---	14.77	---	---	---	7.0
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## KORIAK

Catalog No.	Diam. Bizygomatic maxm. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max- im.	Nasal Index	Upper Alveolar Arch— Length maxm.	Upper Alveolar Arch— Breadth maxm.	Upper Alveolar Arch— Index
4653 <sup>1</sup>	12.8	—	53.13	9.6	8.6	9.6	69.0	53.5	3.4	3.4	3.8	3.8	89.47	89.47	5.0	2.35	47.0	—	—	—
4654 (♀)	12.8	—	53.13	9.2	8.1	9.2	67.5	49.5	—	—	—	—	—	—	4.8	2.6	54.17	—	—	—

## LAMUT

4650 (♀) <sup>3</sup>	13.1	—	54.96	9.7	8.5	9.6	67.5	50.5	3.3	3.4	3.9	3.8	84.62	86.84	5.1	2.35	46.08	—	—	—
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## KAMCHADAL

893 (♀)	13.5	—	51.85	9.6	8.7	9.8	70.5	59.0	3.25	—	3.8	—	85.53	—	4.9	2.4	48.98	—	—	—
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<sup>1</sup> Face ♀-like, but probably a boy.<sup>2</sup> Near.<sup>3</sup> External maxillary hyperostoses.



SIBERIA: CHUKCHI  
(Chukchi Peninsula)

MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella, ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
6539	Moscow Mus.	Chukchi Peninsula	35	---	18.6	13.6	14.1	73.12	87.58	103.68	15.43	---	---	---	7.6
6597	do	do	50	---	19.0	14.0	13.6	73.68	82.42	97.14	15.53	---	---	---	8.0
6521	do	do	28	---	18.9	14.0	14.0	74.07	85.11	100.00	15.63	---	---	---	8.5
6516 <sup>1</sup>	do	do	26	---	19.0	14.1	13.9	74.21	88.99	98.58	15.67	---	---	---	7.6
6527	do	do	45	---	19.6	14.6	13.8	74.49	80.70	94.52	16.00	---	---	---	8.3
6511	do	do	55	---	18.4	13.8	13.6	75.0	84.47	98.55	15.27	---	---	---	8.4
6518 <sup>2</sup>	do	do	60	---	19.2	14.4	13.8	76.0	82.14	95.83	15.80	---	---	---	7.5
6535 <sup>3</sup>	do	do	40	---	18.4	13.8	13.9	75.0	86.34	100.72	15.37	---	---	---	8.2
6546	do	do	30	---	18.0	13.5	14.2	75.0	90.16	105.19	15.23	---	---	---	7.8
6552	do	do	30	---	18.2	13.8	13.4	75.82	83.75	97.10	15.13	---	---	---	7.7
6514 <sup>4</sup>	do	do	35	---	18.4	14.0	13.5	76.09	83.85	96.45	15.30	---	---	---	7.6
6500	do	do	60	---	18.1	13.8	13.0	76.24	81.50	94.20	14.97	---	---	---	8.5
6551 <sup>5</sup>	do	do	40	---	18.7	14.3	13.6	76.47	82.42	95.10	15.53	---	---	---	7.3
6517 <sup>7</sup>	do	do	35	---	18.0	13.8	13.9	76.67	87.42	100.72	15.23	---	---	---	8.0
6524 <sup>8</sup>	do	do	65	---	18.6	14.3	14.4	76.88	87.54	100.70	15.77	---	---	---	8.5
6549	do	do	55	---	19.5	15.1	12.8	77.44	73.99	84.77	15.80	---	---	---	7.7
5245-1	Leningrad Mus.	do	35	---	19.4	15.2	14.1	78.55	81.50	92.76	16.23	---	---	13.5	8.5
8115	Moscow Mus.	do	30	---	18.6	14.8	13.0	79.57	77.84	87.84	15.47	---	---	---	7.7
6540 <sup>9</sup>	do	do	35	---	18.2	14.5	13.0	79.67	79.27	87.84	15.27	---	---	---	7.7
6523 <sup>10</sup>	do	do	35	---	18.0	14.8	13.0	82.22	87.97	97.20	15.17	---	---	---	7.7
6509 <sup>11</sup>	do	do	23	---	17.3	14.3	13.9	82.66	79.29	87.01	15.73	---	---	---	8.3
6506 <sup>12</sup>	do	do	50	---	18.4	15.4	13.4	83.70	79.29	87.01	15.73	---	---	---	8.3
Specimens			(22)		(22)	(22)	(21)	(22)	(21)	(21)	(21)			(1)	(21)
Totals			927		408.50	313.19	286.90	76.7	83.2	95.82	325.53			13.5	167.1
Averages			42.1		18.57	14.27	13.66	76.7	83.2	95.82	15.50				7.96
Minima			23		17.3	13.5	12.8	73.12	73.99	84.77	14.97				7.3
Maxima			65		19.6	15.4	14.4	83.70	90.16	105.19	16.23				8.5



Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch—Length max. im.	Upper Alveolar Arch—Breadth max. im.	Upper Alveolar Arch—Index
6539	14.3	—	53.15	10.6	9.6	10.8	70.5	57.0	3.7	3.8	4.1	4.1	90.24	92.68	5.45	2.2	40.37	5.8	6.7	86.57
6597	13.9	—	57.55	10.4	9.1	10.2	66.0	53.0	3.75	3.75	4.0	4.0	93.75	93.75	5.5	2.5	45.45	5.5	7.0	78.57
6521	14.4	—	59.03	10.2	9.4	11.1	72.5	66.0	4.1	4.0	4.15	4.15	98.80	96.39	5.7	2.4	42.11	5.4	6.4	84.88
6510 <sup>1</sup>	13.5	—	66.30	11.0	9.8	10.6	66.5	54.5	3.6	3.6	3.9	3.8	92.31	94.74	5.25	2.15	40.95	5.7	6.7	86.07
6527	14.9	—	55.70	10.4	9.4	10.4	66.5	60.5	3.7	3.75	4.15	4.05	92.31	92.31	5.7	2.6	45.61	—	—	—
6511	14.0	—	60.00	11.2	9.8	10.6	63.5	53.5	3.8	3.75	4.2	4.1	90.48	91.46	5.6	2.75	49.11	6.1	—	—
6518 <sup>2</sup>	14.8	—	50.68	10.9	10.0	11.2	72.5	57.5	3.8	3.7	4.5	4.3	84.44	86.05	5.7	2.85	50.00	—	7.0	87.14
6535 <sup>3</sup>	13.8	—	61.59	10.8	9.9	10.8	65.5	64.0	3.65	3.55	4.1	4.1	89.02	86.59	5.75	2.7	46.96	5.7	6.0	95.00
6546	14.0	—	58.57	11.0	10.0	10.8	65.5	61.5	3.75	3.85	4.0	4.0	93.75	96.25	5.5	2.45	44.55	5.9	6.8	86.76
6552	14.2	—	54.93	10.7	9.6	10.5	67.0	57.0	3.6	3.7	4.1	3.9	87.80	94.87	5.4	2.3	42.59	5.6	6.8	82.55
6514 <sup>4</sup>	14.6	—	52.74	10.8	9.5	10.6	67.5	54.5	3.85	3.8	4.2	4.4	91.67	92.31	5.1	2.0	39.22	5.6	6.3	88.89
6500	14.2	—	53.62	10.0	8.8	10.1	68.0	53.5	3.85	3.85	4.15	4.15	92.77	92.77	5.3	2.55	48.11	5.6	6.7	93.58
6551 <sup>5</sup>	14.3	—	59.44	10.6	9.4	10.4	65.0	56.0	3.8	4.0	4.45	4.4	85.39	90.91	5.9	2.5	42.37	6.1	7.2	84.72
6517 <sup>6</sup>	13.8	—	52.90	10.2	9.2	10.1	68.5	56.5	3.7	3.65	3.9	3.9	94.87	93.59	5.1	2.4	47.06	5.4	6.6	81.82
6524 <sup>8</sup>	14.5	—	—	—	9.8	11.0	—	—	3.8	3.85	4.1	4.1	92.68	93.90	5.55	2.2	39.64	—	—	—
6549	14.9	—	53.69	10.3	9.0	10.3	66.5	54.5	3.65	3.75	4.25	4.35	86.88	86.21	5.35	2.7	50.47	6.1	7.0	87.14
5245-1	15.1	89.40	56.29	11.5	10.4	11.2	66.0	58.0	3.75	3.7	4.1	4.05	91.47	91.36	6.0	2.1	35.00	5.9	6.7	88.06
8115	14.3	—	53.85	10.1	9.4	10.4	70.0	63.5	3.3	3.2	3.8	3.7	86.84	86.49	5.55	2.8	50.45	5.5	7.1	77.46
6540 <sup>9</sup>	14.0	—	55.00	10.6	10.6	10.1	64.5	56.5	3.6	3.6	3.9	3.9	92.31	92.31	5.5	2.4	43.64	5.6	7.1	78.87
6523 <sup>10</sup>	14.3	—	53.85	10.1	9.0	10.2	68.5	57.0	3.6	3.6	4.1	4.1	87.80	87.80	5.35	2.3	43.00	5.7	7.2	79.17
6509 <sup>11</sup>	13.6	—	56.62	10.2	9.3	10.4	69.5	62.0	3.4	3.4	4.0	3.85	85.00	88.31	5.1	2.1	41.18	5.3	6.7	79.10
6506 <sup>12</sup>	14.1	—	58.87	10.5	12.8	9.8	61.5	42.5	3.6	3.7	3.95	3.9	91.14	94.87	5.75	2.8	48.70	5.9	7.2	81.94
Specimens	(22)	(1)	(21)	(21)	(22)	(22)	(21)	(21)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(19)	(19)	(19)
Totals	313.5	—	—	222.10	208.70	231.40	1,412.5	1,199.0	81.35	81.55	90.10	89.30	—	—	121.10	53.75	108.40	108.40	129.20	—
Averages	14.25	89.4	55.9	10.58	9.49	10.52	67.3	58.0	3.70	3.71	4.10	4.06	90.28	91.32	5.51	2.44	44.38	5.71	6.80	83.90
Minima	13.5	—	50.68	10.0	8.7	9.8	61.5	42.5	3.3	3.2	3.8	3.7	84.44	86.05	5.1	2.0	35.00	5.3	6.3	77.46
Maxima	15.1	—	61.59	11.5	10.4	11.2	72.5	66.0	4.1	4.0	4.5	4.4	98.80	96.39	6.0	2.85	50.47	6.1	7.2	95.00

<sup>1</sup> Somewhat ♀-like, but probably ♂.<sup>2</sup> Asym., bet. +.<sup>3</sup> U-shaped palate.<sup>4</sup> Intranasal shelves.<sup>5</sup> Near.<sup>6</sup> Left upper median incisor lost long ago.<sup>7</sup> Somewhat ♀-like, but probably ♂.<sup>8</sup> Scurvy.<sup>9</sup> Atlas attached.<sup>10</sup> Intranasal shelf.<sup>11</sup> Somewhat ♀-like, but probably ♂.<sup>12</sup> Atlas fused on left with occipital.



SIBERIA: CHUKCHI—Continued  
(Chukchi Peninsula)

FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
12421 (red)	Leningrad Mus.	Chukchi Peninsula	60	---	18.2	13.3	13.3	73.08	84.44	100.00	14.93	---	---	---	7.8
425-32	do.	do.	25	---	18.0	13.2	13.3	73.93	85.29	100.76	14.88	---	---	---	7.6
65072	Moscow Mus.	do.	35	---	18.2	13.4	13.6	73.63	86.08	101.49	15.07	---	---	---	7.6
64983	do.	do.	45	---	17.8	13.3	13.3	74.16	85.81	100.76	14.77	---	---	---	7.5
6548	do.	do.	35	---	18.0	13.4	13.6	74.44	86.62	101.49	15.00	---	---	---	7.0
425-434	Leningrad Mus.	do.	60	---	18.2	13.6	13.2	74.73	83.02	97.06	15.00	---	---	---	107.0
65223	Moscow Mus.	do.	20	---	17.5	13.1	12.8	74.86	83.66	97.71	14.47	---	---	---	(6.9)
425-26	Leningrad Mus.	do.	20	---	18.4	13.8	13.7	75.0	85.09	99.28	15.30	---	---	---	7.6
4610-1	do.	do.	50	---	18.5	13.9	13.0	75.14	80.25	93.53	15.13	---	---	---	7.1
6537	Moscow Mus.	do.	45	---	18.1	13.6	12.9	75.14	81.39	94.85	14.87	---	---	---	7.5
65265	do.	do.	50	---	18.2	13.7	12.8	75.27	80.25	93.43	14.90	---	---	---	7.4
425-46	Leningrad Mus.	do.	70	---	18.0	13.6	13.2	75.66	83.54	97.06	14.93	---	---	---	7.0
425-36	do.	do.	35	---	17.4	13.2	13.0	75.86	84.97	98.48	14.53	---	---	---	7.2
65326	Moscow Mus.	do.	23	---	18.7	14.2	12.9	76.94	78.42	90.85	15.27	---	---	---	7.6
6496	do.	do.	60	---	17.6	13.4	13.6	76.14	87.74	101.49	14.87	---	---	---	7.2
425-45	Leningrad Mus.	do.	20	---	17.3	13.2	13.0	76.30	85.25	98.48	14.50	---	---	---	7.1
425-49	do.	do.	25	---	17.8	13.6	13.0	76.40	84.08	97.06	14.87	---	---	---	7.8
6525	Moscow Mus.	do.	55	---	17.4	13.3	13.2	76.44	84.69	97.74	14.57	---	---	---	7.4
65087	do.	do.	24	---	17.4	13.3	13.0	76.44	83.59	96.24	14.50	---	---	---	7.8
65198	do.	do.	28	---	17.4	13.3	12.8	76.44	83.59	96.24	14.50	---	---	---	7.7
425-38	Leningrad Mus.	do.	50	---	17.0	13.0	12.6	76.47	84.00	96.92	14.20	---	---	---	7.0
6541	Moscow Mus.	do.	25	---	17.4	13.4	13.1	77.01	85.06	97.76	14.63	---	---	---	7.7
6533	do.	do.	75	---	17.6	13.6	12.8	77.27	82.05	94.12	14.67	---	---	---	6.9
654511	do.	do.	22	---	18.1	14.0	13.6	77.55	84.74	97.14	15.23	---	---	---	7.2
6544	do.	do.	20	---	17.8	13.8	13.8	77.53	87.34	100.00	15.13	---	---	---	7.4
6513	do.	do.	25	---	17.0	13.2	13.1	77.65	86.75	99.24	14.43	---	---	---	7.8
811412	do.	do.	40	---	18.8	14.6	12.7	77.66	76.05	86.99	15.37	---	---	12.8	---



6536 <sup>13</sup>	Moscow Mus	40	18.0	14.0	13.4	77.78	83.75	95.71	15.13	7.4
425-37	Leningrad Mus	35	18.1	14.1	12.7	77.90	78.88	90.07	14.97	7.3
6504 <sup>3</sup>	Moscow Mus	35	17.2	13.4	13.4	77.91	77.91	100.00	14.67	7.5
6543 <sup>3</sup>	do	30	17.2	13.4	13.2	77.91	86.27	98.51	14.60	7.5
425-52	Leningrad Mus	25	17.6	13.8	12.8	78.41	81.53	92.75	14.73	7.5
733-5 <sup>14</sup>	do	35	17.6	13.8	13.0	78.41	82.80	94.20	14.80	7.4
6534	Moscow Mus	25	17.8	14.0	13.3	78.65	83.65	95.00	15.03	7.7
198-1 <sup>13</sup>	Leningrad Mus	50	17.4	13.8	13.6	79.31	87.18	98.55	14.93	7.7
6510	Moscow Mus	60	17.5	13.9	13.3	79.43	84.71	95.68	14.90	7.4
1243 (red) <sup>15</sup>	Leningrad Mus	26	18.6	14.8	13.7	79.57	82.04	92.57	15.70	7.7
425-41	do	40	17.4	14.1	13.3	81.03	84.44	94.33	14.93	7.0
4510-2	do	23	17.0	14.1	13.4	82.94	86.17	96.04	14.83	7.5
425-53	do	22	16.6	13.8	13.2	83.13	86.84	95.65	14.53	6.7
425-30	do	24	17.6	14.7	13.6	83.52	84.21	92.52	15.30	7.0
Specimens		(41)	(41)	(41)	(41)	(41)	(41)	(41)	(41)	(38)
Totals		1,512	727.8	550.9	540.8				609.82	280.7
Averages		36.9	17.75	13.68	13.19	77.07	83.92	96.42	14.87	11.80
Minima		20	16.6	13.0	12.6	73.08	76.05	86.99	14.20	6.7
Maxima		75	18.8	14.8	13.8	83.52	87.74	101.76	15.70	12.8

Footnotes at end of table.



## SIBERIA: CHUKCHI—Continued

## (Chukchi Peninsula)

## FEMALES—Continued

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth at max. im.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
1242 <sup>1</sup> (red)	13.0	—	60.00	10.3	9.2	10.6	70.0	56.5	3.8	3.85	4.4	4.4	86.36	87.50	5.55	2.5	45.05	—	6.8	79.41
425-32	13.0	—	58.46	10.3	9.2	10.0	65.5	57.5	3.4	3.45	3.8	3.8	89.47	90.79	5.1	2.3	45.10	—	6.6	81.82
6507 <sup>2</sup>	14.2	—	53.52	11.0	9.8	10.8	68.0	54.0	3.5	3.45	4.0	3.95	87.50	87.34	5.25	2.35	44.76	—	6.7	83.58
6498 <sup>3</sup>	13.2	—	56.82	10.4	9.0	10.0	66.0	50.5	3.8	3.8	3.9	4.0	86.20	95.00	5.05	2.5	49.50	—	5.9	89.83
6548	12.8	—	54.69	9.9	8.7	10.0	70.0	50.0	3.4	3.8	3.8	3.8	89.47	84.62	5.1	2.4	47.52	—	—	—
425-43 <sup>4</sup>	12.8	—	54.69	10.5	9.4	10.2	67.5	52.0	3.55	3.4	3.9	3.9	91.03	87.18	5.1	2.6	50.98	—	—	—
6522 <sup>3</sup>	12.8	—	56.56	9.7	8.8	9.6	68.5	58.5	3.3	3.3	3.7	3.7	89.19	89.19	4.8	2.4	50.00	—	—	—
425-26	13.2	—	57.58	10.3	9.3	10.4	68.5	57.5	3.5	3.4	3.7	3.4	94.59	100.00	5.4	2.4	40.74	—	6.6	77.27
4010-1	13.6	—	52.21	10.1	8.8	9.9	67.5	48.5	3.6	3.6	4.0	4.0	92.0	90.00	5.05	2.4	47.52	—	6.3	85.71
6537	14.1	—	53.19	10.2	9.2	10.0	66.5	59.5	3.6	3.55	4.1	4.0	87.80	88.75	5.0	2.6	52.00	—	6.1	95.08
6526 <sup>5</sup>	12.5	—	59.20	9.7	8.6	9.5	66.0	57.5	3.6	3.55	3.75	3.65	96.00	97.26	4.9	2.2	44.90	—	6.7	83.58
425-46	12.7	—	55.12	9.6	8.4	9.7	69.0	50.0	3.65	3.55	4.0	3.65	91.25	97.26	5.0	2.55	51.00	—	—	—
425-36	13.0	—	55.38	10.2	9.0	9.9	67.0	54.5	3.8	3.75	4.1	4.2	92.68	89.29	4.75	2.6	54.74	—	6.1	90.16
6532 <sup>6</sup>	13.0	—	58.46	10.2	8.8	10.0	66.5	50.0	3.65	3.6	3.95	4.0	92.41	90.00	5.25	2.6	49.52	—	6.7	80.60
6496	13.3	—	54.14	9.5	8.6	9.7	69.0	58.5	3.8	3.7	4.0	3.9	95.00	94.87	5.1	2.15	42.16	—	6.5	78.46
425-45	12.9	—	56.91	9.7	8.5	9.5	66.5	49.5	3.55	3.5	3.7	3.75	94.67	93.33	5.1	2.4	47.06	—	6.3	82.54
425-49	12.9	—	60.47	10.3	8.9	10.0	65.5	51.0	3.7	3.6	3.9	4.0	94.87	90.00	5.3	2.55	48.11	—	6.2	88.71
6525	13.5	—	54.81	10.6	9.0	9.8	63.0	46.0	3.3	3.2	3.7	3.8	89.19	84.21	5.0	2.55	51.00	—	6.9	78.66
6508 <sup>7</sup>	12.8	—	60.94	9.9	8.9	9.8	63.0	46.0	3.7	3.6	3.9	3.8	94.87	94.74	5.45	2.35	43.12	—	6.5	84.62
6519 <sup>8</sup>	13.2	—	58.53	10.5	9.2	10.2	66.0	51.0	3.6	3.65	3.9	3.9	92.31	91.25	5.45	2.5	45.87	—	6.9	81.16
425-38	10 12.8	—	54.69	9.9	8.6	9.7	67.5	49.5	3.4	3.6	3.9	3.9	92.31	92.31	4.85	2.35	48.45	—	6.9	84.06
6541	13.2	—	58.33	10.4	9.1	9.4	60.0	54.5	3.55	3.45	3.6	3.6	94.44	95.83	4.9	2.25	45.92	—	—	—
6533	13.5	—	—	—	8.9	10.1	67.5	53.5	3.55	3.45	4.1	4.1	86.59	86.59	5.15	2.35	45.63	—	—	—
6545 <sup>11</sup>	12.8	—	53.91	10.3	9.2	10.0	67.5	53.5	3.6	3.6	3.85	3.9	92.21	88.46	4.8	2.5	52.08	—	6.6	83.33
6544	13.2	—	54.55	9.5	8.8	10.0	72.0	64.0	3.55	3.6	3.85	3.85	92.21	93.51	5.1	2.4	47.06	—	6.7	74.63
6513	13.0	—	56.92	9.3	8.2	9.4	67.0	52.5	3.8	3.85	3.7	3.7	100.0	101.05	5.4	2.25	41.67	—	6.0	83.33
8114 <sup>12</sup>	13.7	—	56.93	10.6	9.1	10.2	65.0	45.0	3.65	3.85	4.2	4.2	86.90	91.67	5.6	2.2	39.29	—	6.7	89.56



6536 <sup>12</sup>	13.6	54.41	10.4	9.2	10.0	65.5	55.5	3.45	3.4	4.2	4.1	82.14	82.93	4.85	2.2	45.96	5.8	6.8	85.29
425-37	13.3	54.89	10.2	9.0	9.8	65.5	53.0	3.8	3.7	3.8	3.9	100.	94.87	5.05	2.45	48.51	5.6	6.2	90.32
6504 <sup>3</sup>	13.5	55.56	9.8	8.6	9.7	65.5	54.5	3.55	3.6	4.0	4.0	88.75	90.00	5.1	2.4	47.06	5.4	6.4	84.38
6543 <sup>3</sup>	13.7	54.75	10.3	9.1	10.0	65.0	55.0	3.75	3.75	3.9	3.9	96.15	96.15	5.1	2.05	40.20	5.5	6.2	88.71
425-52	13.4	---	---	---	9.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
733-5 <sup>14</sup>	13.0	56.92	9.7	8.4	9.6	66.5	50.5	3.55	3.75	4.0	4.0	88.75	93.75	5.2	2.3	44.23	5.1	6.1	83.61
6534	13.6	56.62	10.7	9.2	10.0	63.0	50.0	3.6	3.65	4.0	4.0	90.00	91.25	5.1	2.4	47.06	6.1	7.4	82.43
198-1 <sup>13</sup>	13.0	59.23	9.9	8.7	10.2	69.5	56.5	---	3.6	---	3.9	---	92.31	5.1	2.2	43.14	5.5	6.3	87.80
6510	12.9	57.36	10.2	9.2	9.8	65.5	60.0	3.4	3.5	3.7	3.7	91.89	94.59	5.0	2.45	49.00	---	---	---
1243 (red) <sup>15</sup>	13.2	58.33	11.0	9.6	10.5	65.5	52.0	3.7	3.65	3.95	3.9	95.67	95.69	5.15	2.2	42.72	5.9	7.1	83.10
425-41	13.7	51.09	10.6	9.4	10.0	66.0	52.0	3.5	3.5	4.25	4.25	82.35	82.35	4.95	2.45	49.49	---	---	---
4610-2	13.0	57.69	10.3	8.8	9.6	63.5	48.5	3.4	3.5	3.8	3.7	89.47	94.59	5.05	2.35	46.53	5.7	6.3	90.48
425-53	12.8	85.94	9.7	8.8	9.8	71.0	56.5	3.25	3.35	3.7	3.6	87.84	93.06	4.8	2.35	48.96	4.9	6.1	80.33
425-30	13.6	51.47	9.9	8.8	9.8	68.5	50.5	3.65	3.7	4.0	3.9	91.25	94.87	5.15	2.2	42.72	5.2	6.6	78.79
Specimens	(40)	(39)	(39)	(39)	(41)	(38)	(38)	(37)	(40)	(37)	(40)	(37)	(40)	(40)	(40)	(40)	(32)	(32)	(32)
Totals	528.0	395.6	349.1	349.1	406.7	2,538.0	2,026.	132.35	142.60	145.10	156.15	---	---	204.05	95	---	174.8	208.2	---
Averages	13.20	88.56	56.03	8.95	9.92	66.79	53.32	3.58	3.57	3.92	3.90	91.21	91.82	5.10	2.38	46.56	5.46	6.51	83.96
Minima	12.5	80.15	51.09	8.2	9.4	60.0	45.0	3.25	3.2	3.6	3.4	82.14	82.25	4.75	2.05	39.29	4.9	5.9	74.6
Maxima	13.7	94.70	60.94	9.6	10.8	72.0	64.0	3.8	3.85	4.4	4.4	100.00	104.05	5.60	2.60	54.74	6.10	7.4	95.0

<sup>1</sup> Vault old syphilitic.<sup>2</sup> Somewhat ♂-like, but probably ♀.<sup>3</sup> Nasal shelves occasional; subnasal grooves frequent; occasional torus palatinus.<sup>4</sup> Left upper median incisor lost long ago.<sup>5</sup> Right upper median incisor lost long ago.<sup>6</sup> Signs of old osteoporosis in both orbits; vault syphilitic.<sup>7</sup> Atlas synostosed with occiput.<sup>8</sup> Vault badly syphilitic.<sup>9</sup> Allowance made for wear of teeth.<sup>10</sup> Near.<sup>11</sup> Right malar anomalous.<sup>12</sup> Somewhat ♂-like, but probably ♀.<sup>13</sup> Vault syphilitic.<sup>14</sup> Syphilitic vault; nose somewhat affected.<sup>15</sup> Somewhat ♂-like, but probably strong ♀.



SIBERIA: CHUKCHI  
(Anadyr Region)  
MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) <sup>1</sup>	Alveol. Pt.-Nasion Height (b)
7539	Leningrad Mus.	Anadyr Region	35		19.0	13.6	13.5	71.6	82.8		15.37			13.4	8.3
42539	do	do	50		19.0	13.8	14.4	72.6	87.8		15.73			13.9	8.5
42534	do	do	30		19.0	14.1	13.4	74.2	81.0		15.50				7.7
831	V.-M.A.L. <sup>2</sup>	do	Adult		18.8	14.2	13.6	75.5	82.4		15.53				8.2
4255	Leningrad Mus.	do	45		19.1	14.5	13.8	75.9	82.1		15.80				7.6
4251	do	do	60		19.2	14.6	13.6	76.0	80.5		15.80				8.3
4256	do	do	50		18.8	14.1	13.1	76.2	79.6		15.33				7.9
874	V.-M.A.L.	do	Adult		18.5	14.1	13.3	76.2	81.6		15.30				8.4
42535	Leningrad Mus.	do	50		18.3	14.0	13.4	76.5	83.0		15.23			13.2	8.0
42533	do	do	35		18.4	14.1	13.3	76.6	81.9		15.27			13.3	8.1
830	V.-M.A.L.	do	Adult		18.4	14.1	13.3	76.6	81.9		15.27				7.7
871	do	do	do		18.2	14.0	13.4	76.9	83.2		15.20				6.8
4252	Leningrad Mus.	do	75		18.5	14.3	13.6	77.3	82.9		15.47				
7534	do	do	30		18.5	14.3	14.2	77.3	86.6		15.67				
823	V.-M.A.L.	do	Adult		18.1	14.0	13.6	77.4	84.7		15.23				7.5
42527	Leningrad Mus.	do	55		19.0	14.7	14.4	77.4	85.5		16.03				8.1
75311	do	do	45		17.8	13.9	14.0	78.1	88.3		15.23			13.2	8.1
833	V.-M.A.L.	do	Adult		17.3	13.6	13.6	78.6	88.0		14.83			12.7	7.5
42540	Leningrad Mus.	do	50		18.4	14.5	13.6	78.8	82.7		15.50				7.9
42529	do	do	55		18.0	14.2	13.3	78.9	82.6		15.17				8.2
42544	do	do	30		19.1	15.1	13.3	79.1	77.8		15.83			13.3	8.5
42543	do	do	35		18.4	14.6	13.7	79.4	83.0		15.57			13.6	8.5
878	V.-M.A.L.	do	Adult		18.5	14.7	14.2	79.5	85.5		15.80				7.8
4254	Leningrad Mus.	do	30		18.6	14.8	14.8	79.6	88.6		16.07				8.3
4253	do	do	28		17.7	14.4	12.8	81.4	79.8		14.97				8.2
819	V.-M.A.L.	do	Adult		18.0	14.8	13.5	82.2	82.3		15.43				7.9
827	do	do	do		17.6	14.6	13.6	82.9	84.5		15.27				8.0
Specimens			(18)		(27)	(27)	(27)	(27)	(27)		(27)			(8)	(24)
Totals			788		498.2	385.7	368.3	77.4	83.3		417.4			106.6	191.5
Averages			43.87		18.45	14.29	13.64	77.4	83.3		15.46			13.32	7.98
Minima			28		17.3	13.6	12.8	71.6	77.8		14.83			12.7	7.5
Maxima			75		19.2	15.1	14.8	82.9	88.6		16.07			13.9	8.5



Catalog No.	Diam. Bizygomatic maxm. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth maxm.	Nasal Index	Upper Alveolar Arch—Length maxm.	Upper Alveolar Arch—Breadth maxm.	Upper Alveolar Arch—Index
7339	12.8	104.7	64.8	10.7	9.2	10.2	63.5	53.5	3.6	3.6	3.75	3.7	96.0	97.3	5.25	2.4	45.7	5.8	6.4	90.6
42539	13.9	100.0	61.2	10.9	9.9	10.9	67.0	62.0	3.85	3.9	4.2	4.1	91.7	95.1	5.6	2.5	44.6	5.9	6.7	83.6
42534	13.7		66.2	10.5	9.0	10.2	66.5	50.5	3.7	3.8	4.2	4.0	88.1	90.5	5.05	2.5	47.5	5.9	7.0	84.3
831	14.6		56.2	10.5	9.2	10.5	67.0	54.5	3.4	3.3	3.95	4.0	86.1	82.5	5.5	2.35	42.7	5.7	6.5	87.7
4255	13.9		59.7	10.8	9.6	10.6	66.0	57.5	3.9	3.95	4.2	4.1	92.9	96.3	5.5	2.35	42.7	5.6	6.4	87.5
4251	15.0		50.7	11.3	10.1	10.9	67.0	51.0	3.7	3.6	4.15	4.0	90.2	90.0	5.5	2.9	43.6	6.0	7.0	85.7
4256	13.9		60.4	10.7	9.6	10.3	63.5	60.0	3.7	3.6	4.1	4.0	95.2	94.0	5.4	2.4	43.6	5.5	7.2	85.7
874	13.8		57.3	10.2	9.1	10.1	66.5	57.5	3.5	3.45	4.0	4.0	87.5	86.3	5.4	2.85	42.8	5.5	6.3	84.1
42535	13.9		57.6	10.4	9.4	10.3	66.5	58.5	3.7	3.65	3.9	4.1	94.9	89.0	5.6	2.55	45.5	5.3	6.8	88.2
42533	14.4		56.3	11.2	10.0	10.8	63.0	59.0	3.5	3.5	4.1	4.2	85.4	83.3	5.2	2.3	44.2	6.0	6.8	84.4
830	13.3		57.9	10.0	8.4	10.2	69.0	47.5	3.75	3.7	4.1	4.0	93.8	92.6	5.25	2.3	43.8	5.4	6.4	84.4
871	13.3		51.1	10.0	8.9	9.8	68.5	51.0	3.3	3.2	3.75	3.8	88.0	84.2	4.95	2.4	48.5	5.4	6.4	84.4
4252	14.5				9.6	10.4			3.6	3.6	4.2	4.1	85.7	87.8	5.5	2.5	45.5			
7534	13.8				9.2	10.8			3.85	3.85	4.0	3.9	85.0	89.7	5.2	2.55	42.6			
823	13.8		54.4	10.7	9.6	10.4	67.0	55.5	3.4	3.4	4.0	3.8	85.0	89.5	5.2	2.35	45.2	5.8	6.5	89.2
42527	14.5		55.9	10.0	9.1	10.6	70.5	61.0	3.6	3.6	4.3	4.2	83.7	85.7	5.8	2.8	48.3	5.6	6.1	91.8
75311	13.3		60.9	10.6	9.2	10.4	66.0	51.5	3.6	3.65	4.1	4.0	87.8	91.3	5.6	2.4	42.9	5.7	6.1	93.4
833	13.5		55.6	10.6	9.4	10.0	64.0	58.0	3.45	3.45	3.75	3.65	92.0	94.5	4.6	2.05	44.6	5.7	6.1	93.4
42540	14.3		55.2	10.3	9.4	10.4	68.0	62.0	3.75	3.8	4.15	4.1	90.4	92.7	5.45	2.45	45.0			
42529	14.1								3.5	3.5	4.2	4.2	83.3	83.3	5.7	2.25	39.5			
42544	15.6		52.6	11.1	9.8	10.6	64.5	57.0	3.8	3.7	4.3	4.3	88.4	86.1	5.2	2.3	44.2	5.9	7.4	79.7
42543	14.3		59.4	10.5	9.3	10.0	62.5	59.0	3.95	3.9	3.9	3.9	101.3	100.0	5.45	2.45	45.0	5.6	6.3	88.9
878	14.2		54.9		9.0	10.7			3.6	3.55	3.8	3.8	94.7	93.4	6.0	2.6	43.9			
4254	13.8		60.1	10.3	9.0	10.5	67.5	55.5	3.75	3.75	4.0	3.9	93.8	96.2	5.65	2.45	43.4	5.7	6.7	85.1
4253	14.4		56.9	11.1	9.6	9.9	59.5	52.0	3.6	3.6	4.2	4.1	86.7	85.7	5.7	2.55	48.1	5.9	6.7	88.1
819	14.5		54.5	10.1	9.2	10.4	69.0	59.5	4.2	4.15	4.2	4.1	100.0	101.2	5.7	2.45	43.0			
827	13.8		58.0	9.6	8.7	10.0	68.5	61.0	3.5	3.4	4.0	3.85	87.5	88.3	5.55	2.1	37.8			
Specimens	(27)		(24)	(23)	(26)	(25)	(23)	(23)	(26)	(27)	(26)	(27)	(26)	(27)	(27)	(27)	(27)	(17)	(17)	(17)
Totals	378.9		242.1	242.5	269.9	269.9	1,524.5	1,294.5	95.5	98.45	105.3	108.35	90.7	90.9	146.95	65.95	44.9	97.0	112.5	86.2
Averages	14.03		56.9	9.33	10.38	10.38	66.3	56.3	3.67	3.65	4.05	4.01	90.7	90.9	5.44	2.44	37.8	5.71	6.62	76.4
Minima	12.8		50.7	8.4	9.8	9.8	59.5	47.5	3.3	3.2	3.75	3.65	83.7	82.5	4.6	2.05	37.8	5.3	6.1	76.4
Maxima	15.6		64.8	11.3	10.9	10.9	70.5	62.0	4.2	4.15	4.3	4.3	101.3	101.2	6.0	2.9	52.8	6.0	7.4	93.4

<sup>1</sup> Allowance made for wear of teeth, where needed.<sup>2</sup> Voienno-meditsinskaja Akademia (Military Medical Academy), Leningrad.



## SIBERIA: CHUKCHI

## (Anadyr Region)

## FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) 1	Alveol. Pt.-Nasion Height (b)
4258	Leningrad Mus.	Anadyr Region	75		17.9	13.0	13.0	72.6	84.1		14.63				7.2
42510	do	do	23		17.4	12.8	12.9	73.6	85.4		14.37				8.1
42516 (prob ♀)	do	do	70		18.9	14.0	13.2	74.1	80.2		15.37				7.8
834	V.-M.A.L.	do	Adult		17.6	13.2	12.8	75.0	83.1		14.53			11.7	7.3
42517	Leningrad Mus.	do	50		18.2	13.7	13.5	75.3	84.6		15.13				7.1
876	V.-M.A.L.	do	Adult		18.8	14.2	12.6	76.5	76.4		15.20			11.7	7.2
42511	Leningrad Mus.	do	70		17.8	13.5	13.3	75.8	85.0		14.87				7.4
42513	do	do	35		17.5	13.3	13.4	76.0	87.0		14.73				6.8
42519	do	do	18		17.8	13.6	12.6	76.4	80.5		14.67				7.7
42512	do	do	35		17.6	13.6	13.8	77.3	88.5		15.0				7.6
822	V.-M.A.L.	do	Adult		18.1	14.0		77.4	92.0		14.70			12.3	7.3
821	do	do	do		17.0	13.2	13.9	77.7							8.0
42515	Leningrad Mus.	do	30		17.5	13.7	13.0	78.3	83.5		14.73				7.4
42514	do	do	45		17.6	13.8	13.3	78.4	84.7		14.90				2 (6.1)
824	V.-M.A.L.	do	Sub-adult		17.2	13.5	13.0	78.5	84.7		14.57				7.1
880	do	do	Adult		17.7	13.9	12.5	78.5	79.1		14.70			11.7	7.7
52452	Leningrad Mus.	do	24		17.7	13.9	14.0	78.5	88.6		15.20			10.8	7.2
820	V.-M.A.L.	do	Adult		17.5	13.8	12.6	78.9	80.5		14.63				7.3
879	do	do	Aged adult		18.0	14.2	12.6	78.9	78.5		14.93				
42518	Leningrad Mus.	do	45		17.2	13.6	13.1	79.1	85.1		14.63				7.5
835	V.-M.A.L.	do	Adult		17.8	14.2	13.6	79.8	85.0		15.20			11.0	7.3
873	do	do	do		17.8	14.2	12.7	79.8	79.4		14.90				6.7
872	do	do	do		17.1	13.8	13.3	80.7	86.1		14.73				
829	do	do	do		15.8	12.8	12.8	81.0	89.5		14.80				
875	do	do	do		17.8	14.7	11.9	82.6	73.2		14.80				
828	do	do	do		16.9	14.2	12.6	84.0	81.0		14.57			11.5	7.1
826	do	do	do		16.6	14.0		84.3							7.1
825	do	do	do		16.3	13.8	13.4	84.7	89.0		14.50				2 (6.7)
Specimens			(12)		(28)	(28)	(26)	(28)	(26)		(26)			(8)	(22)
Totals			520		491.1	381.2	339.4	78.2	83.5		384.0			93.2	161.9
Averages			43.3		17.54	13.72	13.05	78.2	83.5		14.77			11.65	7.36
Minima			18		15.8	12.8	11.9	72.6	73.2		13.80			10.8	6.7
Maxima			75		18.9	14.7	14.0	84.7	92.0		15.37			12.5	8.1



Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
4258	13.1	—	56.7	10.5	8.8	10.1	65.0	50.5	3.45	3.55	4.05	4.1	85.2	86.6	5.1	2.4	47.1	5.5	6.6	83.3
42510	12.7	—	61.8	10.4	9.2	9.9	67.0	65.0	3.65	3.65	4.0	4.0	91.2	91.2	4.95	2.3	46.5	4.3	6.6	83.3
42516 (prob. ♀)	13.1	—	69.1	10.4	9.3	10.2	66.5	57.5	3.8	3.8	3.9	3.8	92.4	100.0	5.5	2.45	44.6	5.3	6.4	82.8
834	13.2	88.6	64.1	10.3	9.4	10.0	67.0	60.0	3.55	3.6	3.9	3.9	91.0	92.3	5.15	2.4	46.3	5.0	6.5	76.9
42517	13.5	90.0	64.6	9.5	8.4	9.6	68.5	49.5	3.6	3.5	3.9	3.8	92.3	92.1	5.35	2.3	43.0	5.0	6.5	76.9
876	13.0	—	64.1	10.1	8.7	10.0	68.0	45.5	3.7	3.7	4.15	4.15	89.2	89.2	5.2	2.65	51.5	5.0	6.5	76.9
42511	13.3	—	67.4	10.2	9.0	9.8	65.5	53.5	3.6	3.65	3.9	3.9	92.3	92.3	5.1	2.15	42.2	5.5	6.2	88.7
42513	12.9	—	67.4	10.2	9.0	9.8	65.5	53.5	3.6	3.65	3.9	3.9	92.3	92.3	5.1	2.15	42.2	5.5	6.2	88.7
4259	12.7	—	69.2	9.9	9.0	10.9	79.0	59.0	3.45	3.5	3.7	3.8	93.2	92.1	4.85	2.45	50.5	5.0	6.0	83.3
42512	13.0	—	69.2	10.0	8.9	10.4	70.5	57.0	3.75	3.75	4.0	4.0	93.8	96.2	5.25	2.2	40.4	5.0	6.1	88.7
822	12.8	—	69.4	—	—	—	—	—	3.65	3.6	3.6	3.65	94.4	91.8	5.15	2.0	38.8	5.4	6.4	84.4
821	13.4	91.8	64.5	9.8	8.8	10.0	69.5	57.0	3.4	3.35	3.6	3.65	94.4	91.8	5.15	2.0	38.8	5.4	6.4	84.4
4255	13.3	—	60.1	10.2	9.2	9.9	65.0	61.0	3.55	3.55	3.85	3.85	92.2	92.2	5.3	2.4	46.3	5.9	6.6	89.4
42514	13.2	—	66.1	10.2	9.0	9.8	65.0	53.5	3.7	3.7	4.2	4.2	88.1	88.1	5.05	2.65	52.5	5.6	6.6	89.4
824 <sup>2</sup>	13.2	—	50.0	9.0	8.0	9.2	72.0	48.5	3.25	3.25	3.8	3.7	85.5	87.8	4.6	2.8	60.9	4.7	5.8	81.0
880	13.2	88.6	63.8	9.9	9.0	10.0	70.0	58.5	3.5	3.5	3.5	3.5	90.0	91.3	5.1	2.5	49.0	5.0	6.1	82.0
52452	13.7	91.2	66.2	9.9	8.9	10.2	69.5	58.0	3.5	3.6	3.9	3.8	89.7	91.7	5.5	2.15	39.1	5.5	6.8	80.9
820	13.5	80.0	63.3	9.6	8.7	9.6	68.0	58.5	3.5	3.45	3.9	3.9	89.7	88.5	5.1	2.5	49.0	5.2	6.2	83.9
879	13.3	—	64.9	9.8	8.1	9.4	70.0	57.5	3.3	3.3	3.8	3.8	86.8	86.8	4.9	2.7	55.1	5.0	6.3	79.4
42518	13.3	—	64.9	9.8	8.8	10.0	70.0	57.5	3.55	3.55	3.8	3.7	83.4	85.9	5.1	2.55	50.0	5.0	6.3	79.4
835	13.6	80.9	65.2	10.0	8.8	10.2	68.0	52.0	3.25	3.3	3.75	3.7	86.7	89.2	5.3	2.7	50.9	5.4	6.9	78.3
873	13.1	—	65.7	9.7	8.8	9.8	69.0	60.0	3.4	3.55	3.75	3.7	90.7	95.9	5.2	2.2	42.3	5.1	6.1	83.6
872	12.6	—	53.2	9.3	8.2	9.0	66.0	50.0	3.5	3.5	3.6	3.6	97.2	97.2	4.8	2.3	47.9	5.1	6.2	82.3
829	13.6	—	64.2	9.1	8.0	9.3	69.0	52.5	3.35	3.4	3.6	3.5	93.1	97.1	5.4	2.65	49.1	4.8	6.0	80.0
875	13.1	87.8	64.2	9.1	8.0	9.3	69.0	52.5	3.55	3.55	3.9	3.8	91.0	93.4	5.1	2.2	43.1	4.8	6.0	80.0
828	12.3	—	57.7	9.4	8.4	9.0	—	—	3.7	3.7	3.7	3.7	—	100.0	4.75	2.3	48.4	5.0	6.3	79.4
826	12.3	—	57.7	9.4	8.4	9.0	—	—	3.7	3.7	3.7	3.7	—	100.0	4.75	2.3	48.4	5.0	6.3	79.4
825 <sup>3</sup>	2(11.6)	—	57.8	9.4	8.4	9.0	—	—	3.7	3.7	3.7	3.7	—	100.0	4.75	2.3	48.4	5.0	6.3	79.4
Specimens	(25)	(8)	(22)	(21)	(24)	(25)	(20)	(20)	(23)	(25)	(23)	(25)	(23)	(25)	(26)	(26)	(26)	(19)	(19)	(19)
Totals	328.5	—	208.2	208.2	211.6	247.3	1,366.0	1,116.0	80.65	88.2	88.85	95.3	90.8	92.5	133.55	62.9	47.1	99.5	120.0	82.9
Averages	13.14	87.3	56.1	9.91	8.82	9.89	68.3	55.8	3.51	3.53	3.86	3.81	90.8	92.5	5.14	2.42	47.1	5.24	6.32	82.9
Minima	12.3	80.9	53.2	9.1	8.0	9.0	65.0	45.5	3.15	3.15	3.5	3.45	86.2	86.2	4.6	2.0	38.8	4.7	5.8	76.9
Maxima	13.7	91.8	61.8	10.5	9.4	10.9	79.0	65.0	3.8	3.8	4.2	4.2	94.4	100.0	5.5	2.8	60.9	5.9	6.9	89.4

<sup>1</sup> Allowance made for wear of teeth, where needed.<sup>2</sup> Somewhat immature.



SIBERIA: CHUKCHI  
(Miscellaneous)

MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maxim. (glabelia ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
860	V.-M.A.L.	Chaplin Cape	Adult	---	18.4	13.8	13.4	75.0	83.2	---	15.20	---	---	---	7.6
225028	U.S.N.M.	Arikameche Island (Bering Strait).	30	---	18.4	14.2	13.2	77.2	81.0	---	15.27	1,445	---	---	8.4
225025	do	Plover Bay	35	---	18.8	14.8	13.2	78.7	78.6	---	15.60	1,510	---	---	7.8
859	V.-M.A.L.	Provident Bay	Adult	---	17.8	14.2	14.1	79.8	88.1	---	15.37	---	---	---	8.1
225032	U.S.N.M.	do	65	---	18.7	15.0	13.7	80.2	81.3	---	15.80	1,515	---	---	---
225026	do	Plover Bay	40	---	18.3	14.8	13.6	80.9	82.2	---	15.57	1,575	---	11.4	7.6
Specimens	---	---	(4)	---	(6)	(6)	(6)	(6)	(6)	---	(6)	(4)	---	(1)	(5)
Totals	---	---	170	---	110.4	86.8	81.2	---	---	---	92.8	6,045	---	---	39.5
Averages	---	---	42.5	---	18.40	14.47	13.53	78.6	82.4	---	15.47	1,511	---	(11.4)	7.90
Minima	---	---	---	---	17.8	13.8	13.2	76.0	78.6	---	15.20	1,445	---	---	7.6
Maxima	---	---	---	---	18.8	15.0	14.1	80.9	88.1	---	15.80	1,575	---	---	8.4

FEMALES

225029	U.S.N.M.	Arikameche Island	35	---	18.2	13.8	13.6	75.8	85.0	---	15.20	1,450	---	---	7.2
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## MALES

Catalog No.	Diam. Bizygomatic maxm. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth maxm.	Nasal Index	Upper Alveolar Arch—Length maxm.	Upper Alveolar Arch—Breadth maxm.	Upper Alveolar Arch—Index	Lower Jaw—Height at Symphysis
860	13.3	—	57.1	10.6	9.4	10.3	66.5	55.0	3.6	3.65	4.1	4.0	87.8	91.2	5.2	2.7	51.9	5.8	7.2	80.6	—
225028	14.7	—	57.1	10.2	9.3	10.5	68.0	62.5	3.55	3.6	4.0	4.0	88.8	90.0	5.9	2.3	39.0	6.1	7.1	85.9	—
225025	14.4	—	54.2	10.8	9.5	10.2	64.0	53.0	3.55	3.55	4.0	4.0	88.8	88.8	5.4	2.2	40.7	5.3	6.3	84.1	—
859	13.2	—	61.4	9.9	8.8	10.0	66.5	58.5	3.65	—	3.9	—	93.6	—	5.4	2.4	44.4	—	—	—	—
225032	14.5	—	—	—	8.5	9.9	—	—	3.85	—	4.1	4.0	93.9	96.3	5.6	2.4	42.9	—	—	—	—
225026	13.3	85.7	57.1	10.0	8.7	9.7	65.0	52.0	3.4	3.3	3.9	3.85	87.2	85.7	5.2	2.55	49.0	5.4	6.9	78.3	3.2
Specimens	(6)	(1)	(5)	(5)	(6)	(6)	(5)	(5)	(6)	(5)	(6)	(5)	(6)	(5)	(6)	(6)	(6)	(4)	(4)	(4)	(1)
Totals	83.4	—	—	51.5	54.2	60.6	330.0	281.0	21.6	17.95	24.0	19.85	—	—	32.7	14.55	—	22.6	27.5	82.2	—
Averages	13.90	85.7	57.3	10.30	9.03	10.10	66.0	56.2	3.60	3.59	4.0	3.97	90.0	90.4	5.45	2.42	44.5	5.65	6.87	82.2	3.2
Minima	13.2	—	54.2	9.9	8.5	9.7	64.0	52.0	3.4	3.3	3.9	3.85	87.2	85.7	5.2	2.2	39.0	5.3	6.3	78.3	—
Maxima	14.7	—	61.4	10.8	9.5	10.5	68.0	62.5	3.85	3.85	4.1	4.0	93.9	96.3	5.9	2.7	51.9	6.1	7.2	85.9	—

## FEMALES

225029	13.2	—	54.5	10.2	9.4	10.3	70.0	61.5	3.45	3.5	3.7	3.7	93.2	94.6	5.2	2.7	51.9	5.5	6.9	79.7	—
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## CHUKCHI CRANIA, SIBERIA

(Abstract)

Measurement	Male					Female			
	Chukchi Peninsula	Anadyr Region	Miscellaneous	Chukchi All		Chukchi Peninsula	Anadyr Region	Miscellaneous	Chukchi All
Approximate age.....	(22) 42.1	(18) 43.8	(4) 42.5	(44) 42.8		(41) 36.9	(12) 43.3	(1)	(54) 38.3
Vault:									
Length.....	(22) 18.57	(27) 18.45	(6) 18.40	(55) 18.49		(41) 17.8	(28) 17.54		(70) 17.67
Breadth.....	(22) 14.27	(27) 14.29	(6) 14.47	(55) 14.30		(41) 13.7	(28) 13.72		(70) 13.70
Height.....	(21) 13.66	(27) 13.64	(6) 13.53	(54) 13.64		(41) 13.2	(26) 13.05		(68) 13.14
Cranial index.....	(22) 76.7	(27) 77.4	(6) 78.6	(55) 77.3		(41) 77.1	(28) 78.2		(70) 77.5
Mean height index.....	(21) 83.2	(27) 83.3	(6) 82.4	(54) 83.2		(41) 83.9	(26) 83.5		(68) 83.8
Module.....	(21) 15.50	(27) 15.46	(6) 15.47	(54) 15.48		(41) 14.87	(26) 14.77		(68) 14.84
Capacity.....			(4) 1,511						
Face:									
Total height.....	(1) (13.5)	(8) 13.32	(1) (11.4)	(10) 13.15		(4) 11.80	(8) 11.65		(12) 11.70
Upper height.....	(21) 7.96	(24) 7.98	(5) 7.90	(50) 7.96		(39) 7.37	(22) 7.36		(62) 7.37
Maximum breadth.....	(22) 14.25	(27) 14.03	(6) 13.90	(55) 14.11		(41) 13.18	(25) 13.14		(67) 13.16
Facial index: Total.....	(1) (89.4)	(8) 95.4	(1) (86.7)	(10) 94.1		(4) 88.6	(8) 87.3		(12) 87.7
Facial index: Upper.....	(21) 55.9	(24) 56.9	(5) 57.3	(50) 56.5		(39) 56.0	(22) 56.1		(62) 56.0
Base, etc.:									
Basion—Alveolar point.....	(21) 10.58	(23) 10.53	(5) 10.30	(49) 10.52		(39) 10.20	(21) 9.91		(61) 10.07
Basion—Subnasal point.....	(22) 9.49	(26) 9.33	(6) 9.03	(54) 9.36		(39) 8.95	(24) 8.82		(64) 8.91
Basion—Nasion.....	(22) 10.52	(26) 10.38	(6) 10.10	(54) 10.41		(41) 9.92	(25) 9.89		(67) 9.91
Facial angle.....	(21) 67.3	(25) 66.3	(5) 66.0	(49) 66.7		(38) 66.8	(20) 68.3		(59) 67.4
Alveolar angle.....	(21) 58.0	(23) 56.3	(5) 56.2	(49) 56.6		(38) 53.3	(20) 55.8		(59) 54.3



Orbits:	Mean height.....	(22)	(27)	(6)	(54)	(40)	(25)	(66)
		3.70	3.66	3.60	3.67	3.57	3.52	3.55
		(22)	(27)	(6)	(54)	(40)	(25)	(66)
Mean breadth.....		4.08	4.03	3.99	4.04	3.91	3.83	3.88
		(22)	(27)	(6)	(54)	(40)	(25)	(66)
		90.8	90.8	90.2	90.7	91.3	91.6	91.5
Nose:	Height.....	(22)	(27)	(6)	(55)	(40)	(26)	(67)
		5.51	5.44	5.45	5.47	5.10	5.14	5.12
		(22)	(27)	(6)	(55)	(40)	(26)	(67)
Breadth.....		2.44	2.44	2.42	2.44	2.38	2.42	2.40
		(22)	(27)	(6)	(55)	(40)	(26)	(67)
		44.4	44.9	44.5	44.6	46.6	47.1	46.8
Upper Alveolar Arch:	Length.....	(19)	(17)	(4)	(40)	(32)	(19)	(52)
		5.71	5.71	5.65	5.70	5.46	5.24	5.38
		(19)	(17)	(4)	(40)	(32)	(19)	(52)
Breadth.....		6.80	6.62	6.87	6.73	6.51	6.32	6.44
		(19)	(17)	(4)	(40)	(32)	(19)	(52)
		83.9	86.2	82.2	84.7	84.0	82.9	83.5



SIBERIA: MONGOL  
MALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabella ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
278782	U.S.N.M.	Urga	50		19.4	14.4	13.8	74.2	81.7		15.87	1,520.0		13.8	8.4
278794	do	do	55		19.8	14.8	13.0	74.7	75.1		15.87	1,680.0			7.6
278772	do	do	26		18.7	14.2	12.0	75.9	72.9		14.97	1,550.0		12.7	8.0
278783	do	do	35		19.2	14.6	13.1	76.0	77.5		15.63	1,550.0			7.8
278768	do	do	45		19.2	14.6	13.7	76.0	81.1		15.83	1,730.0		12.7	17.4
278777	do	do	50		19.2	14.8	13.1	77.1	77.1		15.70	1,610.0			7.3
278769	do	do	65		19.2	14.8	13.4	77.1	78.8		15.80	1,630.0			
278781	do	do	35	Asymmetry	18.1	14.0	13.2	77.3	82.2		15.10	1,450.0			7.9
278791	do	do	40		18.6	14.4	12.5	77.4	75.8		15.17	1,500.0			8.1
278793	do	do	50		18.7	14.5	12.4	77.5	74.7		15.20	1,500.0			
278856	do	do	28		19.4	15.1	12.8	77.8	74.2		15.77	1,600.0		13.2	7.8
278860	do	do	45		19.5	15.2	13.2	77.9	76.1		15.97	1,620.0			8.2
278798	do	do	55		18.6	14.5	11.8	78.0	71.3		14.97	1,500.0		12.6	7.5
278848	do	do	30		18.3	14.3	13.6	78.1	83.4		15.40	1,530.0			7.7
278775	do	do	26	Slight frontal bilateral flattening.	18.6	14.6	14.0	78.5	84.3		15.73	1,740.0		12.4	8.6
278833	do	do	65		18.4	14.5	13.2	78.8	80.24		15.37	1,480.0			7.6
278870	do	do	35		19.4	15.3	13.7	78.9	79.0		16.13	1,750.0			8.5
278873	do	do	50		19.0	15.0	14.0	78.9	82.4		16.00	1,720.0			
278843	do	do	50		19.0	15.0	13.4	78.9	78.8		15.80	1,480.0		12.2	7.8
278776	do	do	35		18.5	14.6	12.8	78.9	77.3		15.30	1,550.0		13.6	8.0
278865	do	do	40		19.1	15.1	13.6	79.1	79.5		15.93	1,770.0			8.0
278803	do	do	45		18.2	14.4	12.7	79.2	77.9		15.10	1,500.0			8.1
278896	do	do	50		18.3	14.5	13.2	79.2	80.5		15.33	1,510.0			8.4
278824	do	do	24		18.4	14.6	13.4	79.3	81.2		15.47	1,500.0			6.6
278856	do	do	60		18.6	14.9	13.4	79.3	79.5		15.70	1,650.0			
278790	do	do	35		19.1	14.8	12.8	79.6	76.6		15.40	1,450.0			8.5
278736	do	do	55		18.7	14.9	13.5	79.6	81.0		16.07	1,650.0		13.6	18.8
278809	do	do	45		18.7	14.9	13.6	79.7	80.4		15.70	1,620.0			8.0
278900	do	do	40		18.3	14.6	13.1	79.7	81.0		15.73	1,600.0			8.0
278829	do	do	70		18.3	14.6	13.0	79.8	79.6		15.37	1,430.0			8.0
278872	do	do	40		18.3	14.6	13.0	79.8	79.6		15.33	1,430.0			8.0
27883	do	do	40		18.5	14.8	13.6	80.0	81.7		15.30	1,500.0			7.7
278916	do	do	24		18.0	14.4	12.9	80.0	79.6		15.10	1,460.0			7.5



278785	do	do	19.0	15.2	13.9	80.0	81.3	16.03	1,740.0	8.4
278852	do	do	18.6	14.9	13.6	80.1	81.2	15.70	1,670.0	8.4
278796	do	do	18.6	14.9	13.7	80.1	81.8	15.73	1,610.0	7.8
278888	do	do	19.2	15.4	13.5	80.2	78.9	15.03 (1,825.0)		8.2
278789	do	do	18.4	14.8	13.2	80.4	79.5	15.47	1,510.0	7.8
278877	do	do	17.9	14.4	13.2	80.4	81.7	15.17	1,620.0	7.2
278820	do	do	19.1	15.4	13.4	80.6	77.7	15.97	1,710.0	7.4
278907	do	do	18.0	14.5	12.9	80.6	79.4	15.13	1,500.0	7.7
278889	do	do	18.7	15.1	13.4	80.7	79.3	15.73	1,580.0	7.4
278828	do	do	18.3	14.8	13.2	80.9	79.8	15.43	1,510.0	
278927	do	do	18.5	15.0	13.4	81.1	80.0	15.63	1,510.0	8.2
278915	do	do	18.6	15.1	13.3	81.3	78.9	15.67	1,630.0	8.1
278854	do	do	17.6	14.3	13.2	81.3	82.8	15.03	1,470.0	7.4
278745	do	do	17.2	14.0	13.4	81.4	85.9	14.87	1,440.0	7.3
278842	do	do	18.9	15.4	12.6	81.5	73.5	15.63	1,450.0	
278862	do	do	17.9	14.6	13.3	81.6	81.8	15.27	1,485.0	7.7
278879	do	do	18.6	15.2	12.2	81.7	72.2	15.33	1,450.0	
278808	do	do	18.7	15.3	14.2	81.8	83.5	16.07	1,680.0	7.6
278830	do	do	17.7	14.5	12.6	81.9	78.3	14.93	1,410.0	7.6
278894	do	do	19.5	16.0	13.4	82.1	75.5	16.30	1,760.0	
278806	do	do	19.5	16.0	13.4	82.1	76.5	16.30	1,690.0	
278857	do	do	18.5	15.2	12.8	82.2	76.0	15.50	1,660.0	9.0
278857	do	do	19.2	15.8	13.2	82.3	75.4	16.07	1,730.0	8.1
278810	do	do	18.6	15.3	12.9	82.3	73.7	15.93	1,800.0	7.0
278821	do	do	19.2	15.8	12.9	82.3	73.7	15.97	1,660.0	8.4
278827	do	do	17.7	14.6	12.2	82.5	75.5	14.83 (1,315.0)		7.5
278855	do	do	18.3	15.1	13.4	82.5	80.2	15.60	1,660.0	7.7
278835	do	do	18.9	15.6	11.4	82.5	66.1	15.30	1,600.0	8.0
278847	do	do	18.4	15.2	13.2	82.6	78.6	15.60	1,565.0	7.7
278906	do	do	18.1	15.0	13.9	82.9	84.0	15.67	1,650.0	
278744	do	do	19.3	16.0	13.3	82.9	75.4	16.20	1,670.0	
278743	do	do	18.9	15.7	13.2	83.1	76.3	15.93	1,630.0	8.4
278880	do	do	18.3	15.2	12.8	83.1	76.4	15.43	1,530.0	
278902	do	do	18.3	15.2	14.4	83.5	86.2	15.93	1,690.0	7.6
278901	do	do	18.8	15.7	13.6	83.5	78.8	16.03	1,700.0	8.2
278861	do	do	19.4	16.2	13.4	83.5	75.3	16.33	1,690.0	8.7
278890	do	do	17.7	14.8	13.0	83.6	80.0	15.17	1,480.0	
278786	do	do	17.8	14.9	13.3	83.7	81.3	15.33	1,530.0	7.6
278844	do	do	17.8	14.9	12.7	83.7	77.7	15.13	1,515.0	6.9
278859	do	do	18.2	15.3	13.0	84.1	77.6	15.50	1,550.0	8.2
278811	do	do	18.3	15.4	12.8	84.2	76.0	15.50	1,540.0	8.4
278917	do	do	17.8	15.0	12.8	84.3	78.0	15.20	1,550.0	7.6
278816	do	do	18.1	15.3	13.0	84.5	77.8	15.47	1,590.0	7.6
278875	do	do	18.7	15.8	13.7	84.5	79.4	16.07	1,740.0	
278747	do	do	18.4	15.6	13.4	84.8	78.8	15.80	1,630.0	
278735	do	do	18.4	15.6	13.2	84.8	77.6	15.73	1,620.0	
278748	do	do	18.6	15.8	13.6	84.9	79.1	16.00	1,620.0	8.5
278732	do	do	18.1	15.4	12.6	85.1	75.2	15.37	1,500.0	8.9
278758	do	do	17.4	14.8	13.0	85.1	80.7	15.07	1,520.0	
278834	do	do	17.6	15.0	13.4	85.2	82.2	15.33	1,600.0	7.8

Near.

Occipital crest and beaked inion; allowance made for same.



SIBERIA: MONGOL—Continued  
MALES—Continued

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior maximum (glabella ad maximum)	Diam. lateral maxim.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity, in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a) 1	Alveol. Pt.-Nasion Height (b)
278845	U. S. N. M.	Urga	60	---	217.3	14.8	12.7	85.5	79.1	---	14.93	1,345.0	---	---	7.8
278759	do	do	60	---	217.5	15.0	12.8	85.7	78.8	---	15.10	1,460.0	---	---	7.6
278755	do	do	65	---	18.2	15.6	12.9	85.7	76.5	---	15.57	1,620.0	---	---	8.2
278757	do	do	60	---	18.4	15.8	12.7	85.9	74.5	---	15.63	1,560.0	---	---	7.7
278767	do	do	30	---	17.8	15.3	13.4	86.0	81.0	---	15.50	1,620.0	---	---	8.0
278884	do	do	35	---	18.6	16.0	13.2	86.0	76.5	---	15.93	1,710.0	---	---	8.3
278805	do	do	45	---	18.6	16.0	13.2	86.0	76.5	---	15.93	1,685.0	---	---	8.2
278754	do	do	40	---	18.0	15.5	13.2	86.1	78.8	---	15.57	1,530.0	---	---	7.1
278729	do	do	50	---	218.2	15.7	13.1	86.3	77.3	---	15.67	1,590.0	---	---	7.7
278725	do	do	26	---	17.6	15.2	13.3	86.4	81.1	---	15.37	1,660.0	---	---	8.8
278849	do	do	35	---	17.6	15.2	13.4	86.4	81.7	---	16.13	1,550.0	---	---	7.8
278760	do	do	45	---	18.7	16.2	13.5	86.6	77.4	---	15.93	1,810.0	---	---	---
278723	do	do	40	---	18.5	16.1	13.2	87.0	76.5	---	15.77	1,610.0	---	---	---
278731	do	do	50	---	218.3	16.0	13.0	87.4	76.8	---	15.73	1,640.0	---	---	---
278814	do	do	65	---	18.2	15.9	13.1	87.4	76.8	---	15.60	1,740.0	---	---	---
278887	do	do	40	---	17.9	15.7	13.2	87.7	78.6	---	15.53	1,570.0	---	---	---
278740	do	do	25	---	17.2	15.2	13.8	88.4	85.2	---	15.00	1,530.0	---	---	---
278722	do	do	60	---	17.6	15.6	13.4	88.6	80.7	---	15.37	1,660.0	---	---	---
278724	do	do	35	---	17.5	15.5	12.0	88.6	72.7	---	15.37	1,550.0	---	---	---
278751	do	do	60	---	17.2	15.9	13.0	92.4	78.5	---	15.37	1,660.0	---	---	---
Specimens			(104)		(104)	(104)	(104)	(104)	(104)		(104)	(102)		(29)	(82)
Totals			4,589		1,918.2	1,571.7	1,370.8	81.94	78.56		1,620.21	162,155		375.6	648.6
Averages			44.1		18.44	15.11	13.18	81.94	78.56		15.58	1,589.7		12.95	7.91
Minima			24		17.2	14.0	11.4	74.2	66.1		14.83	1,345.0		12.2	6.6
Maxima			75		19.8	16.2	14.4	92.4	86.2		16.33	1,810.0		14.2	9.0



Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Racial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch—Length max. im.	Upper Alveolar Arch—Breadth max. im.	Upper Alveolar Arch—Index
278782	14.1	97.9	56.6	10.8	9.3	11.0	68.5	50.5	3.6	3.55	3.8	3.75	94.7	94.7	5.85	2.45	41.9	5.9	6.8	86.8
278794	14.6	92.0	52.0	10.8	9.8	11.1	72.0	55.5	3.85	3.75	4.1	4.1	93.9	91.5	5.7	3.0	52.6	5.1	6.3	81.0
278772	13.8	98.0	58.0	8.9	7.6	9.8	70.5	50.5	3.35	3.7	4.1	4.1	93.9	90.2	5.8	2.5	43.1	5.6	6.7	83.6
278783	13.8	98.0	56.5	10.0	9.0	10.2	68.5	56.0	3.35	3.5	4.1	4.1	91.7	85.4	5.7	2.8	49.1	5.6	6.7	83.6
278768	13.6	98.0	54.4	9.9	8.0	10.6	74.0	58.0	3.8	3.6	3.75	3.75	97.2	94.7	5.5	2.5	45.5	5.0	6.4	78.1
278777	14.8	85.8	49.3	9.6	8.8	10.6	76.0	56.5	3.5	3.6	4.1	4.2	92.7	92.9	5.75	2.9	50.4	5.0	6.4	78.1
278769	14.3	90.0	56.8	8.9	9.3	10.7	71.0	61.5	3.5	3.6	3.7	3.75	94.6	96.0	5.55	2.9	52.3	4.8	6.3	76.2
278781	13.9	97.9	56.8	8.9	8.1	9.8	71.0	61.5	3.5	3.5	3.75	3.75	96.0	93.3	5.65	2.65	46.9	5.5	7.0	73.6
278791	13.9	97.9	58.3	9.8	8.6	9.8	65.5	53.0	3.6	3.5	3.8	4.0	92.1	88.8	5.75	2.75	47.8	5.5	7.0	73.6
278793	14.4	91.7	54.2	10.6	8.4	10.6	68.0	48.5	3.4	3.4	3.8	3.7	89.5	91.9	5.55	2.4	43.2	5.7	6.8	83.8
278856	14.3	97.3	57.3	10.4	9.2	10.4	67.0	52.0	3.4	3.4	3.8	3.7	94.9	89.5	5.6	2.8	50.0	5.8	6.9	84.1
278798	13.7	99.0	54.7	10.3	9.2	10.0	66.5	54.0	3.3	3.4	3.9	3.7	84.6	89.5	5.2	2.6	49.1	5.6	6.5	86.2
278848	14.0	90.0	55.0	10.3	9.0	10.3	68.0	53.5	3.3	3.4	3.9	3.8	84.6	91.9	5.2	2.8	53.9	5.6	6.6	84.9
278775	13.7	99.0	62.8	9.9	8.6	10.3	67.5	55.5	3.9	3.9	3.8	3.8	102.6	102.6	5.8	2.55	44.0	5.9	6.5	90.8
278833	14.2	87.3	53.5	9.8	8.7	10.2	70.0	56.0	3.7	3.6	4.1	4.05	90.2	88.9	5.3	2.6	49.1	5.5	7.3	75.3
278870	15.1	80.0	56.3	10.2	9.0	11.0	71.0	53.0	3.5	3.4	4.15	4.1	84.3	82.9	6.3	2.8	44.4	5.5	7.3	75.3
278873	14.3	93.0	53.1	10.2	9.5	11.0	74.0	61.0	3.4	3.75	4.1	3.9	89.0	86.2	5.5	2.9	52.7	5.1	6.8	75.0
278843	14.7	83.0	54.8	10.1	8.8	11.0	65.5	48.5	3.6	3.7	3.9	3.8	87.2	85.9	5.85	3.05	52.1	5.1	6.8	75.0
278776	14.6	93.2	56.3	10.8	9.6	11.0	70.0	53.5	3.75	3.7	4.0	4.1	93.8	90.2	5.7	3.0	50.4	5.5	6.7	82.1
278865	14.2	90.0	56.3	10.8	9.6	11.0	70.0	53.5	3.75	3.7	4.0	4.1	90.0	90.2	5.65	2.8	49.6	5.9	7.0	84.3
278803	13.9	93.0	55.5	10.0	8.2	10.0	71.0	58.0	3.6	3.55	3.7	3.7	97.3	95.9	5.9	2.8	47.5	5.5	6.5	84.6
278896	14.6	88.0	56.8	10.6	9.0	10.6	68.0	56.0	3.65	3.6	4.0	3.65	83.8	89.0	6.1	2.7	44.3	5.6	6.5	86.2
278809	14.8	86.0	57.8	10.6	9.5	10.8	73.5	57.5	3.1	3.25	3.7	3.65	83.8	89.0	5.0	2.7	54.0	5.1	6.0	85.0
278924	13.8	97.0	47.8	9.6	8.8	10.0	73.5	57.5	3.65	4.0	4.0	4.0	103.8	100.0	5.85	2.9	49.6	5.6	7.2	77.8
278886	14.5	88.0	57.8	10.4	8.7	10.7	68.5	66.5	4.15	4.0	4.0	3.85	98.7	102.6	5.8	2.55	44.0	5.6	7.2	77.8
278790	14.7	87.0	60.3	10.1	9.7	10.8	66.0	54.0	3.85	3.95	3.9	3.9	94.9	94.9	6.1	2.7	44.3	5.5	6.5	84.6
278735	14.6	93.2	51.6	9.7	8.9	10.8	74.0	62.5	3.55	3.6	3.95	3.8	91.0	94.7	5.9	2.8	50.0	5.1	7.0	79.9
278809	15.5	83.0	51.6	9.7	8.9	10.8	74.0	62.5	3.55	3.6	3.9	3.8	91.0	94.7	5.9	2.8	50.0	5.1	7.0	79.9
278900	13.9	98.6	57.6	9.6	8.4	9.9	67.5	53.0	3.8	3.75	3.6	3.6	105.6	104.2	5.75	2.5	43.5	5.2	6.9	75.4
278829	14.5	88.0	55.2	9.9	8.8	10.6	71.5	54.0	3.4	3.55	4.0	3.9	85.0	91.0	5.9	2.75	46.6	5.6	6.8	82.4
278872	14.1	90.0	56.8	9.9	8.9	10.5	74.5	64.5	3.5	3.5	4.05	3.95	86.4	88.6	5.6	3.0	52.6	5.6	6.8	82.4
278883	14.7	86.0	52.4	9.6	8.9	10.5	74.5	64.5	3.5	3.5	4.05	3.95	86.4	88.6	5.6	3.0	52.6	5.6	6.8	82.4
278916	14.3	92.0	52.4	9.6	9.0	10.6	68.0	50.0	3.4	3.55	3.8	3.8	92.1	93.4	6.0	3.0	50.0	4.9	6.4	76.6
278785	14.4	93.0	48.3	9.7	8.6	10.2	71.0	55.0	3.8	3.7	3.9	3.8	87.2	88.2	5.5	2.7	49.1	5.6	6.8	82.4
278852	14.0	98.6	60.0	10.2	8.6	10.6	67.5	56.0	3.8	3.7	4.1	4.0	92.7	92.6	6.2	3.05	49.2	5.1	6.8	75.0
278796	14.2	90.1	54.9	10.4	9.4	10.8	71.0	58.0	3.55	3.6	4.1	4.0	93.8	100.0	5.8	2.9	50.0	5.4	6.9	78.3
278868	14.3	87.3	57.3	9.4	8.2	9.9	68.0	55.0	3.85	3.85	4.0	3.8	88.8	92.3	5.6	3.0	53.6	5.6	7.0	80.0
278888	14.3	87.3	57.3	9.4	8.2	9.9	68.0	55.0	3.85	3.85	4.0	3.8	102.7	101.3	5.65	2.55	45.1	5.3	6.7	79.1



## SIBERIA: MONGOL—Continued

## MALES—Continued

Catalog No.	Diam. Bizygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. im.	Nasal Index	Upper Alveolar Arch—Length max. im.	Upper Alveolar Arch—Breadth max. im.	Upper Alveolar Arch—Index
278789	14.3	87.4	54.5	10.0	9.8	9.8	65.5	47.0	3.45	3.6	4.05	4.0	85.2	90.0	5.65	3.0	53.1	5.5	6.8	80.9
278877	14.3	—	50.3	9.9	9.8	9.8	68.0	56.5	3.9	3.95	3.9	3.9	100.0	101.3	4.8	2.55	53.1	5.5	7.0	78.6
278820	14.6	—	50.7	10.4	9.4	10.6	71.0	55.0	3.65	3.65	4.0	4.0	91.3	91.3	5.5	2.85	51.8	5.6	6.7	83.6
278907	13.7	—	56.2	10.1	9.2	10.4	70.0	56.0	3.55	3.65	3.9	3.9	88.8	85.9	5.85	2.8	47.9	4.9	6.4	76.6
278889	14.8	—	50.0	9.4	8.6	10.4	75.5	60.0	3.35	3.35	3.7	3.7	85.9	87.8	5.5	2.5	45.6	—	—	—
278828	13.7	—	—	—	8.0	9.3	—	—	3.25	3.25	3.7	3.7	87.8	87.8	5.3	3.1	58.5	—	—	—
278927	14.3	—	57.5	10.3	8.9	10.6	68.5	45.5	3.6	3.8	4.0	4.0	90.0	95.0	6.25	2.8	44.8	—	—	—
278915	13.4	—	50.5	9.2	8.0	9.4	65.5	55.5	3.8	3.75	3.9	4.0	97.4	93.8	5.4	2.6	48.2	5.2	6.3	82.5
278854	13.9	—	53.2	9.7	8.8	9.9	69.5	58.5	3.5	3.45	3.7	3.8	94.6	90.8	5.3	2.8	52.8	5.2	6.7	77.6
278745	13.5	—	54.1	9.9	8.4	9.6	66.0	42.5	3.25	3.4	3.9	3.9	83.3	87.2	5.3	2.75	51.9	5.3	6.3	84.1
278842	14.6	—	—	—	8.9	10.4	—	—	3.35	3.3	3.75	3.7	89.3	89.2	5.85	2.85	48.7	—	—	—
278862	13.7	—	56.2	10.1	9.1	10.0	67.0	56.0	3.25	3.4	3.6	3.6	90.3	94.4	5.6	2.6	46.4	5.2	6.9	76.4
278879	14.7	—	—	—	9.5	9.8	—	—	3.7	3.75	4.15	4.0	89.2	93.8	5.8	2.7	46.6	—	—	—
278808	14.8	87.8	51.4	9.5	8.8	10.6	76.0	64.0	3.4	3.5	3.8	3.75	89.5	93.3	5.5	2.5	45.5	5.0	6.4	78.1
278830	13.8	89.9	55.1	10.3	9.4	10.3	68.0	60.0	3.45	3.45	3.75	3.7	92.0	93.2	5.4	2.7	50.0	5.6	6.6	84.9
278894	—	—	—	—	9.2	10.8	—	—	3.8	3.8	4.0	4.0	—	95.0	5.8	3.0	51.7	—	—	—
278806	15.4	—	58.4	10.8	9.4	11.0	66.5	51.5	4.2	4.2	4.1	4.1	102.4	102.4	6.5	2.7	41.5	5.9	7.0	84.3
278857	13.5	—	58.5	10.4	8.8	10.0	64.5	47.0	3.35	3.5	3.95	3.9	84.8	89.7	5.35	2.6	48.6	5.8	6.8	85.2
278910	14.7	—	55.1	10.6	9.4	11.0	70.5	55.0	3.8	3.65	4.2	4.1	90.5	89.0	5.8	3.0	51.7	5.5	7.0	78.6
278821	13.9	—	50.4	9.3	8.4	10.0	74.5	57.0	3.35	3.35	3.6	3.6	90.3	93.1	5.1	2.75	53.9	—	—	—
278822	15.0	—	56.0	9.9	8.6	10.4	68.5	52.5	3.8	3.95	4.15	4.05	91.6	97.5	6.0	3.0	50.0	5.6	6.7	83.6
278827	13.9	89.9	54.0	10.3	8.8	9.7	64.0	48.0	3.35	3.4	3.7	3.65	90.5	97.2	5.05	2.5	49.5	5.5	6.4	85.9
278855	(13.1)	(93.9)	(58.8)	10.0	9.0	10.4	71.0	58.0	3.7	3.75	3.8	3.75	97.4	100.0	5.45	2.7	49.5	5.6	6.4	87.5
278835	14.9	87.3	53.7	9.9	8.4	9.8	65.5	46.5	3.85	3.95	4.2	4.2	91.7	94.0	5.75	2.8	48.7	5.5	6.9	79.7
278847	14.2	—	54.2	9.6	8.6	10.2	71.5	57.0	3.4	3.4	3.75	3.7	90.7	91.9	5.55	2.8	50.5	5.0	6.4	78.1
278866	13.7	—	—	—	8.4	9.6	—	—	3.45	3.25	3.8	3.7	90.8	87.8	4.8	2.3	47.9	—	—	—
278744	15.0	—	—	—	10.0	10.8	—	—	3.8	3.75	4.2	4.2	90.5	89.3	5.3	2.3	52.8	—	—	—
278743	15.1	88.7	45.6	9.5	8.4	10.1	68.0	55.0	3.6	3.75	4.1	4.0	87.8	93.8	6.1	2.95	48.4	5.5	7.1	77.5
278880	14.8	—	—	—	8.6	9.7	—	—	3.8	3.75	3.95	3.95	96.2	94.9	5.3	2.75	51.9	—	—	—
278902	14.3	—	53.1	10.5	9.2	10.2	66.5	46.0	3.9	4.0	4.0	4.1	97.5	97.6	5.7	2.8	49.1	5.5	6.7	82.1
278901	14.1	—	58.2	10.3	8.9	10.2	65.5	50.5	3.6	3.55	4.0	4.0	90.0	88.8	5.7	2.9	50.9	5.8	7.0	82.9
278861	15.5	—	56.1	10.8	9.4	10.8	66.0	51.0	3.4	3.3	4.3	4.0	79.1	82.5	6.2	3.2	51.6	—	—	—
278890	13.7	—	—	—	9.3	10.8	—	—	3.65	3.7	4.0	3.9	91.3	94.9	5.6	2.5	44.6	5.2	6.4	81.3
278786	14.4	—	52.8	9.8	9.0	10.2	70.0	62.0	3.7	3.7	3.9	3.9	94.9	94.9	5.4	2.6	48.1	—	—	—



	13.7	50.4	9.7	8.8	9.6	68.5	55.0	3.3	3.35	3.7	3.7	89.2	90.5	5.1	2.7	52.9	5.4	6.6	81.8
278844	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
278859	14.3	57.3	10.1	8.6	10.2	66.5	46.0	3.4	3.4	3.9	3.7	87.2	91.9	5.95	2.75	46.2	5.6	6.9	81.2
278811	14.1	59.0	9.9	8.6	9.9	65.0	53.0	3.7	3.7	3.8	3.7	97.4	100.0	5.8	2.45	46.2	5.6	6.7	83.6
278917	14.3	53.1	9.9	8.8	10.2	69.5	54.0	3.5	3.5	3.8	3.4	92.1	97.1	5.55	2.9	52.2	5.4	6.7	80.6
278816	13.9	54.7	9.6	8.4	10.0	70.0	52.5	3.3	3.3	3.55	3.6	93.0	97.1	5.45	2.2	40.4	5.4	6.6	81.8
278875	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
278747	15.3	---	---	9.0	10.4	---	---	3.6	3.6	3.8	3.6	94.7	97.2	5.7	2.8	49.1	---	---	---
278735	14.0	---	---	9.4	10.6	---	---	3.7	3.8	4.4	4.2	84.1	90.5	5.95	3.05	51.3	---	---	---
278748	15.1	56.3	9.4	8.2	9.8	66.0	55.5	3.75	3.9	4.1	3.7	92.3	97.5	5.4	2.5	46.3	5.3	7.0	75.7
278732	14.4	61.8	10.9	9.6	10.6	64.0	57.0	3.65	3.9	3.95	4.0	91.5	97.5	5.8	2.75	47.4	6.0	7.5	80.0
278758	---	---	10.2	8.9	10.0	---	---	3.35	3.7	3.7	3.95	92.4	93.7	5.9	3.0	50.9	5.4	6.7	80.6
278834	14.3	54.5	8.9	8.0	9.8	71.5	59.5	3.5	3.55	3.85	3.7	90.5	93.2	5.35	2.6	48.6	5.4	6.5	76.9
278845	13.9	---	---	8.0	9.3	---	---	3.5	3.5	3.9	3.8	90.9	91.0	5.55	2.7	48.6	5.0	---	---
278759	14.2	---	---	8.4	9.6	65.5	54.0	3.6	3.6	3.9	3.8	89.7	92.1	5.6	2.75	49.10	---	---	---
278755	13.9	54.7	9.7	8.4	10.8	---	---	3.55	3.9	4.0	3.9	92.3	---	5.1	2.65	52.0	---	---	---
278757	15.1	54.3	9.9	8.9	10.4	69.5	59.0	3.6	3.5	4.0	3.9	87.5	91.0	5.55	2.65	47.7	---	---	---
278767	14.2	56.8	9.6	8.6	10.1	69.0	59.0	3.9	3.9	4.0	3.9	90.0	89.7	5.8	3.0	51.7	---	---	---
278884	14.0	55.0	10.5	9.1	10.4	68.0	48.5	3.45	3.4	3.9	3.9	100.0	100.0	5.5	2.65	48.2	5.1	6.7	76.1
278805	14.9	45.70	---	9.0	10.4	---	---	3.75	3.8	4.1	4.1	91.5	92.7	6.0	2.5	45.1	5.8	7.3	79.5
278754	14.2	57.7	---	8.8	10.2	---	---	3.9	3.8	4.2	4.1	92.9	92.7	5.7	2.6	43.3	5.4	6.9	78.3
278729	14.7	---	---	8.6	10.0	---	---	3.4	3.4	4.0	4.1	85.0	82.9	---	2.75	48.2	5.4	7.0	77.1
278725	14.2	50.0	9.7	8.2	9.6	67.5	47.0	3.45	3.5	3.9	3.9	88.5	89.7	4.8	2.6	54.2	5.5	6.6	82.3
278849	14.3	53.8	10.0	9.0	10.3	69.5	55.0	3.9	3.7	4.45	4.5	87.6	85.6	5.75	2.7	47.0	5.3	6.8	77.9
278760	15.5	56.8	10.0	8.4	10.0	64.0	47.5	3.7	3.85	4.25	4.2	87.1	86.9	6.2	2.9	46.8	---	---	---
278723	15.5	50.3	10.4	9.1	10.2	66.0	54.0	3.7	3.65	4.0	4.2	87.1	86.9	5.4	2.95	56.7	5.7	6.9	82.6
278731	---	---	---	8.4	9.8	---	---	3.5	---	4.0	---	87.5	---	---	2.7	50.0	---	---	---
278814	14.4	---	---	8.7	10.0	---	---	3.4	3.5	3.9	3.8	87.2	92.1	5.55	3.0	56.1	---	---	---
278887	14.6	55.5	9.9	8.4	10.2	68.0	48.0	3.7	3.7	4.1	4.15	90.2	89.2	5.75	2.5	43.5	5.5	6.6	83.3
278740	14.0	54.3	10.0	8.9	9.8	66.0	54.0	3.2	3.45	3.75	3.7	85.3	93.2	5.4	2.5	46.3	5.2	6.8	76.5
278722	14.2	58.5	9.4	8.2	9.5	64.5	51.5	3.85	3.9	3.9	3.9	98.7	98.7	6.1	2.75	46.1	---	---	---
278724	14.5	51.0	8.6	7.4	8.6	64.5	46.5	3.6	3.65	4.0	4.0	90.0	91.3	5.5	2.5	45.6	4.8	6.4	75.0
278751	14.5	57.2	---	8.1	9.0	---	---	3.65	---	4.0	---	91.3	---	6.0	2.6	43.3	5.4	6.6	81.8
Specimens	(98)	(81)	(80)	(103)	(103)	(78)	(78)	(102)	(98)	(102)	(98)	(102)	(98)	(103)	(103)	(103)	(71)	(71)	(71)
Totals	1,405.2	---	797.5	907.7	1,063.1	5,359.5	4,227.0	366.5	354.05	400.1	380.6	---	---	580.45	252.05	---	385.2	477.3	---
Averages	14.34	55.17	9.97	8.81	10.32	68.71	54.19	3.59	3.61	3.92	3.88	91.60	93.02	5.64	2.74	48.59	5.43	6.72	80.70
Minima	13.5	45.6	8.6	7.4	8.6	64.0	42.5	3.1	3.25	3.55	3.6	79.1	82.5	4.8	2.2	40.4	4.8	6.0	72.9
Maxima	15.5	62.8	10.9	10.0	11.1	76.0	66.5	4.2	4.2	4.45	4.5	105.6	104.2	6.5	3.2	58.5	6.0	7.5	90.8



## SIBERIA: MONGOL

## FEMALES

Catalog No.	Collection	Locality	Approximate age of subject	Deformation	Diam. antero-posterior max. (glabelle ad maximum)	Diam. lateral max.	Basion-Bregma height	Cranial Index	Mean Height Index	Height-Breadth Index	Cranial Module	Capacity in c. c. (Hrdlicka's method)	Teeth, wear	Menton-Nasion Height (a)	Alveol. Pt.-Nasion Height (b)
278013	(A. H.) U.S.N.M.	Urga	30		18.2	13.6	12.6	74.7	79.2		14.80	1,450			7.2
278779	do	do	26		17.8	13.4	12.5	75.8	80.1		14.57	1,250		11.8	7.0
278778	do	do	25		17.8	13.5	12.7	76.8	81.2		14.67	1,450		11.1	6.8
278800	do	do	28		18.2	13.8	13.0	75.8	81.3		15.00	1,500			7.3
278797	do	do	35		17.5	13.3	12.4	76.0	80.5		14.40	1,433		11.5	6.9
278770	do	do	40		18.5	14.1	12.0	76.2	73.6		14.87	1,510			7.5
278788	do	do	24		17.6	13.7	12.5	77.8	79.9		14.60	1,410		11.1	6.9
278787	do	do	70		18.2	14.2	13.0	78.0	80.2		15.13	1,470			
278795	do	do	35		18.6	14.5	13.4	78.0	81.0		15.50	1,550			7.9
278792	do	do	55		17.6	13.8	12.4	78.4	79.0		14.60	1,310			7.3
278773	do	do	65		18.0	14.6	12.9	78.5	77.1		15.37	1,480			
278784	do	do	35		18.2	14.2	13.0	78.9	80.7		15.07	1,385		11.5	6.7
278841	do	do	40		18.6	14.4	12.3	79.1	76.5		14.97	1,340			7.3
278801	do	do	25		17.7	14.0	12.7	79.1	80.1		14.80	1,470		11.8	7.4
278920	do	do	25		17.7	14.0	12.4	79.1	78.2		14.70	1,410		11.3	6.9
278876	do	do	55		17.8	14.1	13.4	79.2	84.0		15.10	1,410			
278804	do	do	26		18.4	14.6	13.2	79.3	80.0		15.40	1,460		12.3	8.1
278825	do	do	26		17.9	14.2	12.6	79.3	78.5		14.90	1,460			7.4
278885	do	do	30		16.8	13.4	11.8	79.8	78.1		14.00	1,200		11.9	7.2
278802	do	do	40		17.8	14.2	12.0	79.8	75.0		14.67	1,330			6.4
278799	do	do	35		17.4	13.9	12.5	79.9	79.9		14.60	1,350			7.0
278909	do	do	40		18.0	14.4	12.4	80.0	76.5		14.93	1,420		12.0	7.3
278851	do	do	40		18.2	14.6	13.0	80.2	79.3		15.27	1,450			6.5
278903	do	do	30		17.3	13.9	12.3	80.3	78.8		14.50	1,170			7.4
278823	do	do	25		17.1	13.8	12.2	80.7	79.0		14.37	1,300		11.0	6.7
278839	do	do	40		17.9	14.5	12.0	81.0	74.1		14.80	1,345		12.5	7.4
278815	do	do	24		17.9	14.5	12.8	81.1	78.5		15.13	1,500		11.2	6.8
278838	do	do	45		17.2	14.0	12.1	81.4	77.6		14.43	1,335		12.4	7.6
278840	do	do	35		17.9	14.6	12.7	81.6	78.2		15.07	1,590			7.2
278863	do	do	40		17.4	14.2	12.4	81.6	78.5		13.87	1,170			6.9
278807	do	do	24		16.4	13.4	11.8	81.7	79.2		13.87	1,170			
278868	do	do	45		17.5	14.3	13.0	81.7	81.8		14.93	1,360			
278810	do	do	45		16.9	13.8	13.2	81.7	83.0		14.93	1,405			6.8
278824	do	do	25		17.6	14.4	12.8	81.8	80.0		14.93	1,405			6.7
278874	do	do	30		17.0	13.9	12.9	81.8	83.5		14.60	1,290			7.4
278911	do	do	23		17.8	14.6	13.2	82.0	81.5		15.20	1,540			7.3
278893	do	do	45		17.2	14.1	11.8	82.0	75.4		14.37	1,260			7.2
278832	do	do	25		17.4	14.3	12.8	82.2	80.8		14.83	1,390		11.8	



[illegible]

See footnotes at end of table.



## SIBERIA: MONGOL—Continued

## FEMALES—Continued

Catalog No.	Diam. Blygomatic max. (c)	Facial Index, total $\left(\frac{a \times 100}{c}\right)$	Facial Index, upper $\left(\frac{b \times 100}{c}\right)$	Basion-Alveolar Pt.	Basion-Subnasal Pt.	Basion-Nasion	Facial Angle	Alveolar Angle	Orbits—Height, right	Orbits—Height, left	Orbits—Breadth, right	Orbits—Breadth, left	Orbital Index, right	Orbital Index, left	Nose—Height	Nose—Breadth max. lm.	Nasal Index	Upper Alveolar Arch—Length max.	Upper Alveolar Arch—Breadth max.	Upper Alveolar Arch—Index
278913	13.0	84.4	55.4	9.4	8.5	10.0	73.0	58.0	3.5	3.5	3.75	3.75	94.6	93.3	5.2	2.2	42.3	5.1	6.4	79.7
278779	12.5	84.4	56.0	9.7	8.8	10.2	73.5	55.0	3.55	3.6	3.8	3.8	93.4	94.7	5.3	2.65	60.0	5.1	6.4	79.7
278778	12.7	87.4	53.5	8.8	8.8	9.6	71.5	55.0	3.4	3.45	3.5	3.4	97.1	100.0	5.25	2.4	45.7	4.7	6.2	75.8
278800	13.6	89.2	53.7	10.9	9.4	10.2	65.0	44.0	3.45	3.45	3.55	3.8	87.3	90.8	5.2	2.8	52.9	6.0	7.2	83.3
278757	12.9	89.2	53.5	9.8	8.6	9.4	65.5	49.0	3.35	3.35	3.55	3.9	94.4	100.0	5.0	2.6	52.0	5.5	6.4	85.9
278770	13.4	87.4	56.0	9.1	7.8	9.1	65.5	48.5	3.75	3.75	3.9	3.75	96.2	96.2	5.35	2.35	43.9	4.9	6.2	79.0
278788	12.7	87.4	54.3	9.4	8.5	9.4	68.0	55.5	3.8	3.7	3.80	3.6	98.7	98.7	5.05	2.45	48.5	4.8	6.3	76.2
278787	13.3	87.4	54.3	9.4	8.5	9.4	68.0	55.5	3.8	3.7	3.80	3.6	98.7	98.7	5.05	2.45	48.5	4.8	6.3	76.2
278795	13.0	87.4	54.3	9.4	8.5	9.4	68.0	55.5	3.8	3.7	3.80	3.6	98.7	98.7	5.05	2.45	48.5	4.8	6.3	76.2
278792	13.0	87.4	54.3	9.4	8.5	9.4	68.0	55.5	3.8	3.7	3.80	3.6	98.7	98.7	5.05	2.45	48.5	4.8	6.3	76.2
278773	14.0	87.1	50.8	10.0	8.9	10.2	70.5	46.5	3.4	3.45	3.95	3.8	87.2	90.8	5.15	2.7	52.4	5.5	6.4	85.9
278784	13.2	87.1	50.8	10.0	8.9	10.2	70.5	46.5	3.4	3.45	3.95	3.8	87.2	90.8	5.15	2.7	52.4	5.5	6.4	85.9
278841	13.8	90.1	56.5	9.7	8.6	9.6	67.0	56.0	3.55	3.6	4.15	4.1	85.5	87.8	5.0	2.75	55.0	5.1	5.9	86.4
278801	13.1	86.9	53.1	9.5	8.6	9.8	68.5	58.0	3.65	3.6	3.6	3.7	98.6	94.6	5.2	2.35	47.0	4.8	6.1	78.7
278826	13.0	86.9	53.1	9.5	8.6	9.8	68.5	58.0	3.65	3.6	3.6	3.7	98.6	94.6	5.2	2.35	47.0	4.8	6.1	78.7
278876	13.0	86.9	53.1	9.5	8.6	9.8	68.5	58.0	3.65	3.6	3.6	3.7	98.6	94.6	5.2	2.35	47.0	4.8	6.1	78.7
278804	13.2	86.9	53.1	9.5	8.6	9.8	68.5	58.0	3.65	3.6	3.6	3.7	98.6	94.6	5.2	2.35	47.0	4.8	6.1	78.7
278825	13.1	86.9	53.1	9.5	8.6	9.8	68.5	58.0	3.65	3.6	3.6	3.7	98.6	94.6	5.2	2.35	47.0	4.8	6.1	78.7
278885	12.6	90.2	54.6	9.1	8.0	9.6	70.0	55.5	3.2	3.25	3.7	3.7	87.8	86.5	5.45	2.5	45.9	4.9	6.3	77.8
278802	13.2	90.2	54.6	9.1	8.0	9.6	70.0	55.5	3.2	3.25	3.7	3.7	87.8	86.5	5.45	2.5	45.9	4.9	6.3	77.8
278799	12.7	90.2	54.6	9.1	8.0	9.6	70.0	55.5	3.2	3.25	3.7	3.7	87.8	86.5	5.45	2.5	45.9	4.9	6.3	77.8
278909	13.8	90.9	55.3	9.7	8.7	10.0	70.5	58.0	3.35	3.4	3.85	3.75	88.0	93.1	5.05	3.0	56.4	5.2	6.6	78.8
278851	13.2	90.9	55.3	9.7	8.7	10.0	70.5	58.0	3.35	3.4	3.85	3.75	88.0	93.1	5.05	3.0	56.4	5.2	6.6	78.8
278903	13.6	89.9	54.8	9.8	8.8	9.6	68.5	54.0	3.25	3.4	3.65	3.65	89.0	88.3	5.0	2.5	50.0	5.1	6.1	83.6
278823	13.9	89.9	54.8	9.8	8.8	9.6	68.5	54.0	3.25	3.4	3.65	3.65	89.0	88.3	5.0	2.5	50.0	5.1	6.1	83.6
278839	13.4	89.9	54.8	9.8	8.8	9.6	68.5	54.0	3.25	3.4	3.65	3.65	89.0	88.3	5.0	2.5	50.0	5.1	6.1	83.6
278815	12.7	89.4	58.3	9.0	8.0	9.2	69.0	48.0	3.45	3.45	3.6	3.6	89.1	91.9	5.4	2.4	49.1	5.3	6.5	81.5
278838	12.8	87.5	55.1	9.1	8.0	9.2	69.0	48.0	3.45	3.45	3.6	3.6	89.1	91.9	5.4	2.4	49.1	5.3	6.5	81.5
278840	13.8	89.9	54.8	9.8	8.8	9.6	68.5	54.0	3.25	3.4	3.65	3.65	89.0	88.3	5.0	2.5	50.0	5.1	6.1	83.6
278863	13.2	89.9	54.8	9.8	8.8	9.6	68.5	54.0	3.25	3.4	3.65	3.65	89.0	88.3	5.0	2.5	50.0	5.1	6.1	83.6
278807	12.5	89.9	54.8	9.8	8.8	9.6	68.5	54.0	3.25	3.4	3.65	3.65	89.0	88.3	5.0	2.5	50.0	5.1	6.1	83.6
278810	13.1	89.9	54.8	9.8	8.8	9.6	68.5	54.0	3.25	3.4	3.65	3.65	89.0	88.3	5.0	2.5	50.0	5.1	6.1	83.6
278824	12.8	89.9	54.8	9.8	8.8	9.6	68.5	54.0	3.25	3.4	3.65	3.65	89.0	88.3	5.0	2.5	50.0	5.1	6.1	83.6
278874	13.3	89.9	54.8	9.8	8.8	9.6	68.5	54.0	3.25	3.4	3.65	3.65	89.0	88.3	5.0	2.5	50.0	5.1	6.1	83.6
278911	13.6	89.9	54.8	9.8	8.8	9.6	68.5	54.0	3.25	3.4	3.65	3.65	89.0	88.3	5.0	2.5	50.0	5.1	6.1	83.6



[illegible]

Near.



## MONGOLS

## (Abstract)

Measurement	Males <sup>1</sup>			Females <sup>1</sup>		
	Group A	Group B	Group C	Group A	Group B	Group C
Approximate age of subject.....	(31) 44.0	(61) 44.2	(12) 44.3	(29) 36.2	(29) 34.2	(24) 30.5
Vault:	(31)	(61)	(12)	(29)	(29)	(24)
Length.....	18.82	18.37	17.88	17.86	17.34	16.87
Breadth.....	(31) 14.70	(61) 15.21	(12) 15.68	(29) 14.07	(29) 14.39	(24) 14.75
Height.....	(31) 13.20	(61) 13.18	(12) 13.17	(29) 12.58	(29) 12.67	(24) 12.54
Cranial Index.....	(31) 78.12	(61) 82.81	(12) 87.74	(29) 78.76	(29) 82.98	(24) 87.45
Mean height index.....	(31) 78.75	(61) 78.48	(12) 78.47	(29) 78.81	(29) 79.81	(24) 79.29
Cranial module.....	(31) 15.57	(61) 15.58	(12) 15.58	(29) 14.84	(29) 14.80	(24) 14.72
Capacity.....	(31) 1,574.5	(59) 1,587.9	(12) 1,638.3	(28) 1,404.9	(29) 1,413.3	(24) 1,408.5
Face:	(9)	(16)	(4)	(14)	(10)	(5)
Total height.....	(9) 12.98	(16) 12.99	(4) 12.73	(14) 11.67	(10) 11.64	(5) 11.70
Upper height.....	(26) 7.95	(47) 7.89	(9) 7.90	(25) 7.16	(26) 7.06	(22) 7.04
Maximum breadth.....	(30) 14.29	(57) 14.32	(11) 14.58	(29) 13.18	(29) 13.22	(22) 13.26
Facial index, total.....	(9) 90.40	(15) 91.40	(4) 88.52	(14) 89.63	(10) 88.58	(5) 89.72
Facial index, upper.....	(26) 55.57	(46) 55.16	(9) 54.15	(25) 54.33	(26) 53.45	(22) 53.08
Base, etc.:	(26)	(46)	(8)	(23)	(25)	(23)
Basion-Alveolar point.....	(31) 10.05	(60) 9.96	(12) 9.75	(28) 9.52	(29) 9.46	(23) 9.23
Basion-Subnasal point.....	(31) 8.93	(60) 8.83	(12) 8.45	(29) 8.49	(29) 8.40	(23) 8.24
Basion-Nasion.....	(31) 10.45	(60) 10.37	(12) 9.75	(29) 9.64	(29) 9.50	(23) 9.35
Facial angle.....	(26) 69.75	(44) 68.55	(8) 66.25	(23) 68.91	(25) 68.44	(22) 68.61
Alveolar angle.....	(26) 55.33	(44) 54.20	(8) 50.44	(23) 53.37	(25) 52.84	(22) 52.82
Orbits, height:	(31)	(60)	(11)	(29)	(27)	(23)
Right.....	(29) 3.61	(59) 3.59	(10) 3.58	(29) 3.49	(28) 3.42	(24) 3.47
Left.....	(29) 3.61	(59) 3.61	(10) 3.63	(29) 3.50	(28) 3.45	(24) 3.48
Breadth:	(31)	(60)	(11)	(29)	(27)	(23)
Right.....	(29) 3.90	(59) 3.92	(10) 4.0	(29) 3.79	(28) 3.79	(24) 3.72
Left.....	(29) 3.88	(59) 3.87	(10) 4.0	(29) 3.74	(28) 3.72	(24) 3.69
Index:	(31)	(60)	(11)	(29)	(27)	(23)
Right.....	(29) 92.63	(59) 91.58	(10) 88.93	(29) 92.17	(28) 90.37	(24) 93.39
Left.....	(29) 93.07	(59) 93.40	(10) 90.74	(29) 93.60	(28) 92.94	(24) 94.13
Nose:	(31)	(61)	(11)	(28)	(29)	(24)
Height.....	(31) 5.70	(61) 5.61	(11) 5.60	(28) 5.15	(29) 5.16	(24) 5.18
Breadth.....	(31) 2.72	(61) 2.75	(11) 2.70	(28) 2.60	(29) 2.59	(24) 2.53
Nasal index.....	(31) 47.78	(61) 49.09	(11) 48.18	(28) 50.59	(29) 50.18	(24) 48.79
Upper Alveolar Arch:	(23)	(41)	(7)	(22)	(23)	(21)
Length.....	(23) 5.47	(41) 5.42	(7) 5.34	(22) 5.10	(23) 5.0	(21) 4.89
Breadth.....	(23) 6.70	(41) 6.75	(7) 6.67	(22) 6.34	(23) 6.27	(21) 6.27
Index.....	(23) 81.62	(41) 80.30	(7) 80.09	(22) 80.56	(23) 79.80	(21) 77.98
Lower jaw:	(10)	(19)	(4)	(15)	(10)	(4)
Height at symphysis.....	(10) 3.61	(19) 3.68	(4) 3.64	(15) 3.25	(10) 3.27	(4) 3.26

<sup>1</sup> Grouped by cranial index.



Measurement	Sam- oyed	Ostiak	Vogul	Tungus M- series	Tungus L- series	Buriat	Uchil		Gillak		Yakut	Yuka- gir	Orochi	Koriak	Kam- chadal	Chuk- chi	Mongol (Outer)
							Type D	Type B	Sakha- lin Island	Och- otsk Sea L. Amur							
Approximate age	{ (10)	(92)	(16)	(11)	(6)	(27)	Adult	Adult	(9)	(2)	(7)	(7)	(1)	(1)	-----	(44)	(104)
Vault:	{ (1)	45.5	47.8	38.6	Adult	39			Adult	Adult	Adult	Adult	Adult	Adult	-----	42.8	44.1
Length	{ (10)	(99)	(15)	(11)	(6)	(29)	(4)	(5)	(9)	(2)	(7)	(7)	(1)	(1)	-----	(55)	(104)
Breadth	{ 17.86	18.31	18.82	19.09	17.82	18.06	18.65	17.66	17.98	18.80	18.63	18.50	17.8	18.1	-----	18.49	18.44
	{ (10)	(99)	(15)	(11)	(6)	(29)	(4)	(5)	(9)	(2)	(7)	(7)	(1)	(1)	-----	(55)	(104)
	{ 14.67	14.28	14.03	14.45	14.93	15.05	13.83	14.84	15.03	13.60	15.0	14.63	15.0	14.2	-----	14.30	15.11
Height	{ (10)	(99)	(15)	(11)	(6)	(28)	(4)	(5)	(9)	(2)	(7)	(7)	(1)	(1)	-----	(54)	(104)
	{ 12.76	12.84	12.71	13.17	12.68	13.14	13.43	13.58	13.49	13.65	13.51	13.09	13.1	13.8	-----	13.64	13.18
	{ (10)	(99)	(15)	(11)	(6)	(29)	(4)	(5)	(9)	(2)	(7)	(7)	(1)	(1)	-----	(55)	(104)
Cranial index	{ 82.1	78.0	74.5	75.7	83.8	83.4	74.1	84.0	83.6	72.3	80.5	79.1	84.3	73.5	-----	77.3	81.9
	{ (10)	(99)	(15)	(11)	(6)	(28)	(4)	(5)	(9)	(2)	(7)	(7)	(1)	(1)	-----	(54)	(74.2-92.4)
Mean height index	{ 78.5	78.8	77.4	78.5	77.5	79.3	82.7	83.6	81.7	84.3	80.4	79.0	79.9	85.5	-----	83.2	78.6
	{ (10)	(99)	(15)	(11)	(6)	(28)	(4)	(5)	(9)	(2)	(7)	(7)	(1)	(1)	-----	(54)	(104)
Module (mean diam.)	{ 16.0	15.16	15.18	15.57	15.15	15.42	15.30	15.36	15.50	15.35	15.71	15.40	15.30	15.37	-----	15.48	15.58
Capacity															-----		{ 2 (101) 1,590
Face:																	
Total height	{ (3)	(20)	-----	(3)	(5)	(8)	(2)	(2)	(2)	-----	(3)	(3)	-----	-----	-----	(10)	(29)
	{ 12.37	12.17	-----	12.33	12.50	12.73	12.35	12.85	13.30	-----	12.87	12.90	-----	-----	-----	13.15	12.95
Upper height	{ 7.53	7.57	(14)	(11)	(6)	(24)	(4)	(5)	(7)	(2)	(6)	(5)	(1)	(1)	-----	(50)	(82)
	{ (10)	(98)	(14)	(11)	(6)	(27)	(4)	(5)	(8)	(2)	(7)	(6)	(1)	(1)	-----	(55)	(98)
Max. breadth	{ 13.97	14.11	13.71	14.08	14.30	14.0	13.78	14.62	13.88	13.75	14.53	14.37	14.8	12.8	-----	14.11	14.34
	{ (10)	(98)	(14)	(11)	(6)	(27)	(4)	(5)	(8)	(2)	(7)	(6)	(1)	(1)	-----	(55)	(98)
Facial index: Total	{ 89.4	88.0	-----	(3)	(5)	(8)	(2)	(2)	(2)	-----	(3)	(3)	-----	-----	-----	(10)	(28)
	{ (8)	(90)	(13)	(11)	(6)	(24)	(4)	(5)	(7)	(2)	(6)	(5)	(1)	(1)	-----	(50)	(90.7)
Facial index, upper	{ 53.9	53.8	52.8	53.8	54.0	55.1	55.9	56.2	55.1	55.3	55.2	54.0	50.0	53.1	-----	56.5	55.2
Base, etc.:															-----		
Basion-Alveolar point	{ (7)	(87)	(14)	(11)	(6)	(24)	(4)	(5)	(7)	(2)	(6)	(5)	(1)	(1)	-----	(49)	(80)
	{ 9.83	10.41	10.06	10.47	10.22	9.90	10.30	10.70	10.77	10.85	10.33	9.92	10.1	9.6	-----	10.52	9.97
Basion-Subnasal point	{ (10)	(96)	(15)	(11)	(6)	(28)	(4)	(5)	(7)	(2)	(7)	(6)	(1)	(1)	-----	(54)	(103)
	{ 8.70	9.30	9.15	9.33	9.05	8.80	9.15	9.30	9.54	9.50	9.0	8.83	9.0	8.6	-----	9.36	8.81
Basion-Nasion	{ (10)	(99)	(15)	(11)	(6)	(28)	(4)	(5)	(8)	(2)	(7)	(7)	(1)	(1)	-----	(54)	(103)
	{ 9.69	10.21	10.18	10.36	10.13	9.90	10.48	10.42	10.44	10.90	10.37	10.20	9.8	9.6	-----	10.41	10.32
Facial angle	{ (7)	(87)	(14)	(11)	(6)	(24)	(4)	(5)	(7)	(2)	(6)	(5)	(1)	(1)	-----	(49)	(78)
	{ 67.2	66.8	69.9	68.0	67.1	67.3	66.3	65.2	66.1	70.5	67.6	69.3	66.0	69.0	-----	66.7	68.7
Alveolar angle	{ (7)	(87)	(14)	(11)	(6)	(24)	(4)	(5)	(7)	(2)	(6)	(5)	(1)	(1)	-----	(49)	(78)
	{ 54.9	53.7	56.8	52.6	52.3	53.2	50.8	52.3	53.9	52.7	53.8	57.0	55.0	53.5	-----	56.6	54.2







<i>Cranial index</i> .....	{ (8) 82.5	{ (115) 80.2	{ (27) 75.8	{ (10) 78.	{ (9) 82.7	{ (24) 84.9	{ (13) 78.9	{ (2) 85.8	{ (14) 83.8	{ (1) 73.4	-----	{ (13) 78.9	{ (2) 82.1	{ (1) 78.5	{ (1) 76.4	{ (70) 77.5	{ (82) 82.7 (74.7-94.5)
<i>Mean height index</i> .....	{ (8) 79.2	{ (115) 78.7	{ (26) 77.5	{ (10) 76.5	{ (9) 77.8	{ (24) 78.6	{ (13) 79.8	{ (2) 81.	{ (13) 80.4	{ (1) 84.0	-----	{ (10) 78.	{ (2) 77.1	{ (1) 81.4	{ (1) 88.6	{ (68) 83.8	{ (82) 79.3
<i>Module (mean diameter)</i> .....	{ (8) 14.58	{ (115) 14.57	{ (26) 14.48	{ (10) 14.52	{ (9) 14.70	{ (24) 14.84	{ (13) 14.72	{ (2) 14.40	{ (13) 14.62	{ (1) 15.10	-----	{ (10) 14.81	{ (2) 14.80	{ (1) 14.40	{ (1) 14.77	{ (68) 14.84	{ (82) 1.479
<i>Capacity</i> .....	{ (8) 14.58	{ (115) 14.57	{ (26) 14.48	{ (10) 14.52	{ (9) 14.70	{ (24) 14.84	{ (13) 14.72	{ (2) 14.40	{ (13) 14.62	{ (1) 15.10	-----	{ (10) 14.81	{ (2) 14.80	{ (1) 14.40	{ (1) 14.77	{ (68) 14.84	{ (82) 1.479
<i>Face:</i>	{ (3) 11.30	{ (18) 11.21	-----	{ (3) 11.37	{ (7) 11.07	{ (4) 12.20	{ (3) 12.0	-----	{ (2) 12.15	-----	-----	{ (2) 11.90	-----	-----	-----	{ (12) 11.70	{ (29) 11.67
<i>Total height</i> .....	{ (8) 6.98	{ (110) 6.99	{ (22) 6.72	{ (10) 7.21	{ (9) 6.92	{ (17) 7.25	{ (10) 7.33	{ (2) 7.05	{ (10) 7.22	{ (1) 6.9	-----	{ (12) 7.26	{ (1) 6.6	{ (1) 6.8	{ (1) 7.0	{ (62) 7.37	{ (73) 7.09
<i>Maximum breadth</i> .....	{ (8) 13.08	{ (114) 13.11	{ (25) 12.90	{ (10) 13.08	{ (9) 13.18	{ (22) 13.61	{ (13) 13.18	{ (2) 13.65	{ (10) 13.40	{ (1) 13.1	-----	{ (12) 13.33	{ (1) 13.1	{ (1) 12.8	{ (1) 13.5	{ (66) 13.16	{ (80) 13.22
<i>Facial index: Total</i> .....	{ (3) 86.9	{ (18) 86.3	-----	{ (3) 82.2	{ (7) 83.8	{ (4) 89.2	{ (3) 89.6	-----	{ (2) 89.3	-----	-----	{ (88) 88.2	-----	-----	-----	{ (12) 87.7	{ (29) 89.3
<i>Facial index: Upper</i> .....	{ (17) 53.4	{ (109) 53.4	{ (22) 51.9	{ (10) 55.1	{ (9) 52.5	{ (15) 53.3	{ (10) 55.5	{ (2) 51.7	{ (9) 53.4	{ (1) 52.7	-----	{ (12) 54.5	-----	{ (1) 53.1	{ (1) 51.9	{ (62) 56.	{ (73) 53.6
<i>Base, etc.:</i>	{ (7) 9.67	{ (109) 9.85	{ (21) 9.47	{ (10) 9.76	{ (9) 9.82	{ (15) 9.60	{ (10) 9.93	{ (2) 10.10	{ (10) 10.31	{ (1) 10.5	-----	{ (10) 9.36	{ (1) 10.4	{ (1) 9.3	{ (1) 9.6	{ (61) 10.07	{ (71) 9.40
<i>Basion-Alveolar point</i> .....	{ (8) 8.65	{ (114) 8.78	{ (26) 8.52	{ (10) 8.54	{ (9) 8.71	{ (24) 8.46	{ (13) 8.79	{ (2) 8.90	{ (10) 9.11	{ (1) 9.2	-----	{ (10) 8.38	{ (1) 9.3	{ (1) 8.1	{ (1) 8.7	{ (64) 8.91	{ (80) 8.38
<i>Basion-Subnasal point</i> .....	{ (8) 9.71	{ (114) 9.65	{ (26) 9.60	{ (10) 9.39	{ (9) 9.59	{ (24) 9.68	{ (13) 9.88	{ (2) 9.60	{ (10) 9.87	{ (1) 10.0	-----	{ (11) 9.74	{ (2) 10.15	{ (1) 9.2	{ (1) 9.8	{ (67) 9.91	{ (81) 9.51
<i>Facial angle</i> .....	{ (7) 68.7	{ (109) 67.3	{ (18) 70.	{ (10) 65.	{ (9) 67.1	{ (15) 68.2	{ (10) 67.3	{ (2) 65.3	{ (10) 62.2	{ (1) 61.0	-----	{ (10) 69.8	{ (1) 69.0	{ (1) 67.5	{ (1) 70.5	{ (59) 67.4	{ (70) 68.7
<i>Alveolar angle</i> .....	{ (7) 51.4	{ (113) 52.3	{ (24) 54.8	{ (10) 48.5	{ (9) 50.5	{ (22) 52.1	{ (10) 51.4	{ (2) 51.	{ (11) 51.9	{ (1) 49.5	-----	{ (11) 55.5	{ (1) 49.0	{ (1) 49.5	{ (1) 50.0	{ (59) 54.3	{ (70) 53.0
<i>Orbits:</i>	{ (8) 3.38	{ (113) 3.43	{ (24) 3.40	{ (10) 3.50	{ (9) 3.26	{ (22) 3.48	{ (13) 3.53	{ (2) 3.39	{ (11) 3.41	{ (1) 3.3	-----	{ (11) 3.37	-----	{ (1) 3.5	{ (1) 3.25	{ (66) 3.55	{ (81) 3.47
<i>Mean height</i> .....	{ (8) 3.75	{ (113) 3.83	{ (24) 3.79	{ (10) 3.75	{ (9) 3.61	{ (22) 3.79	{ (13) 3.90	{ (2) 3.98	{ (11) 3.80	{ (1) 3.9	-----	{ (11) 3.71	-----	{ (1) 3.7	{ (1) 3.8	{ (66) 3.88	{ (81) 3.75
<i>Mean index</i> .....	{ (8) 90.1	{ (113) 89.8	{ (24) 89.6	{ (10) 92.3	{ (9) 90.2	{ (22) 91.8	{ (13) 90.	{ (2) 85.3	{ (11) 89.7	{ (1) 84.7	-----	{ (12) 90.3	-----	{ (1) 94.6	-----	{ (66) 91.5	{ (81) 92.7
<i>Nose:</i>	{ (8) 5.17	{ (114) 5.06	{ (25) 4.96	{ (10) 5.25	{ (9) 4.95	{ (21) 5.29	{ (13) 5.27	{ (2) 4.92	{ (11) 5.09	{ (1) 4.75	-----	{ (12) 5.28	{ (1) 4.9	{ (1) 4.8	{ (1) 4.9	{ (67) 5.12	{ (81) 5.16
<i>Height</i> .....	{ (8) 2.41	{ (114) 2.49	{ (25) 2.49	{ (10) 2.59	{ (9) 2.51	{ (21) 2.69	{ (13) 2.64	{ (2) 2.58	{ (11) 2.47	{ (1) 2.9	-----	{ (12) 2.59	{ (1) 2.5	{ (1) 2.6	{ (1) 2.4	{ (67) 2.40	{ (81) 2.58
<i>Breadth</i> .....	{ (8) 46.7	{ (114) 49.3	{ (25) 50.2	{ (10) 49.3	{ (9) 50.6	{ (21) 50.9	{ (13) 50.1	{ (2) 52.3	{ (11) 48.6	{ (1) 51.0	-----	{ (12) 49.1	{ (1) 51.	{ (1) 54.2	{ (1) 54.2	{ (67) 46.8	{ (81) 49.9
<i>Nasal index</i> .....	{ (7) 5.09	{ (101) 5.28	{ (18) 5.06	{ (10) 5.23	{ (9) 5.11	{ (16) 5.09	{ (10) 5.24	{ (1) 5.5	{ (9) 5.30	{ (1) 5.6	-----	{ (12) 5.13	{ (1) 5.2	-----	-----	{ (52) 5.38	{ (66) 5.0
<i>Upper Alveolar Arch:</i>	{ (7) 6.14	{ (101) 6.25	{ (18) 6.09	{ (10) 6.21	{ (9) 6.40	{ (16) 6.34	{ (10) 6.50	{ (1) 6.5	{ (9) 6.49	{ (1) 6.3	-----	{ (12) 6.51	{ (1) 6.4	-----	-----	{ (52) 6.44	{ (66) 6.29
<i>Length</i> .....	{ (7) 82.8	{ (101) 84.6	{ (18) 83.0	{ (10) 84.2	{ (9) 79.9	{ (16) 80.2	{ (10) 80.5	{ (1) 84.6	{ (9) 81.7	{ (1) 88.9	-----	{ (12) 78.9	{ (1) 81.3	-----	-----	{ (52) 83.5	{ (66) 79.5
<i>Breadth</i> .....	{ (7) 82.8	{ (101) 84.6	{ (18) 83.0	{ (10) 84.2	{ (9) 79.9	{ (16) 80.2	{ (10) 80.5	{ (1) 84.6	{ (9) 81.7	{ (1) 88.9	-----	{ (12) 78.9	{ (1) 81.3	-----	-----	{ (52) 83.5	{ (66) 79.5
<i>Index</i> .....	{ (7) 82.8	{ (101) 84.6	{ (18) 83.0	{ (10) 84.2	{ (9) 79.9	{ (16) 80.2	{ (10) 80.5	{ (1) 84.6	{ (9) 81.7	{ (1) 88.9	-----	{ (12) 78.9	{ (1) 81.3	-----	-----	{ (52) 83.5	{ (66) 79.5
<i>Lower jaw:</i>	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	{ (29) 3.26
<i>Height at symphysis</i> .....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 Presenile adult.

2 Cranial capacity.



## NOTES ON THE NON-ESKIMO CRANIA

Less than a score of years ago Alaska from the point of view of anthropology was regarded as one of the simplest regions, with only the Indians and the Eskimo to be considered. How far this concept was from reality will be appreciated from a study of the data herein presented.

The Alaska Indians in general offer much in common, though there are some regional differences among them. The only marked exception is the group on the Shageluk Slough of the Yukon, which approaches the dolichoid Shoshonean-Algonkin strains. The Eskimo, too, are fairly homogeneous, with local differences. But there were four groups at least in southwestern Alaska that, although belonging to the same basic complex, were distinctly different from the rest. Two of these, the Koniag and the Aleut, used to be erroneously counted with the Eskimo; but there were also two others, older and until recently not even suspected, that for a long time occupied the regions of the Koniags and the Aleuts but were more or less completely replaced by the latter.

Of these four groups, the Koniags, the latest inhabitants of Kodiak Island, were related to the Aleuts, as well as to the southern Alaska Indians, yet had some individuality of their own. The Aleuts, shown to be completely different from the Eskimo, have marked Asiatic (Tungus) affinities. Both the Pre-Koniags and the Pre-Aleuts were entirely distinct from the Koniags and the Aleuts, as well as from each other, and were related to different types of the mainland Indian.

Thus Alaska was a mosaic of differing types of people, and the main groups have doubtless now been discovered. These peoples were not very ancient, none in all probability reaching much beyond the Christian Era. If there is any type still more ancient, evidence of it lies in the frozen grounds that cannot yet be explored. It would seem, however, that at best there could have been only sparse and few stations of earlier man—there is no indication of anything on a larger scale.

Notwithstanding the differences in the various Alaska strains, there was found nowhere any sharp line of demarcation. The masses differed, sometimes very markedly, but many of the individuals merged with others of separate groups. This was partly due, no doubt, to intermixture, but in the main the cause is the same as between the various mainland tribes; it is the same basic racial derivation. Even the Eskimo in Alaska and the Indian merge to such a degree that in the case of many individual crania even an expert cannot be sure what he has before him.

This matter naturally raises the question as to the meaning of existing differences between these and other American native groups. In general there is not one of the many American tribes, nor any two



or more separate parts of even the same tribe, that do not present some physical differences. Yet all these tribes are basically closely related, and all belong plainly to one and the same stem of humanity. The differences are manifested, though never collectively, in most of the physical characters of both the living and the skeleton. The most marked ones are in stature, shape of the head, and robustness of the parts.

These differences parallel those within the other two main stems of mankind, the White and the Black, and their explanation is not yet possible, but it may be approached. It is clear that all these differences could not have existed from the beginnings of the species, for none of the human varieties of present times are of such antiquity; many in fact must be rather recent. Therefore they must have arisen in the course of man's biological history and can have been due only to internal or external contemporaneous agencies. In an extended sense therefore they were not inherent but were acquired. Just what the reasons were that underlay these organic acquisitions it is not possible to fathom clearly, but we may be sure that the causes, multiple and elusive as they may be, are all natural, and as such all subject to eventual definitive determination. They may legitimately be called the causes of "raciogeny," and their study will constitute perhaps the most attractive and important task of future anthropology. For the present it may suffice to view all these human subtypes, types, or varieties, American or other, as so many more or less fixed results of the reactions between a plastic class of organisms and various sufficiently potent internal and external agencies.



# INDEX TO TABLES

Northwest Coast:	Page	Kodiak and Aleutian Islands	Page
Males.....	4	(abtract).....	86
Females.....	6	Siberia:	
Southeast Alaska:		Neolithic crania (abstract) ..	87
Males (Tlingit).....	8	Samoyed males.....	88
Females (Tlingit).....	10	Samoyed females.....	90
Males (Haida and Tlingit) ..	11	Ostiak males.....	92
Females (Haida and Tlingit) ..	13	Ostiak females.....	98
South and Southwest Alaska:		Vogul males.....	104
Males.....	15	Vogul females.....	106
Females.....	17	Tungus: Moscow series.....	108
Yukon:		Tungus: Leningrad series.....	112
Males.....	18	Buriat: U.S.N.M. series	
Females.....	20	(males).....	114
Shageluk (Yukon):		Buriat: Irkutsk series	
Males.....	22	(males).....	116
Females.....	24	Buriat: U.S.N.M. series	
Northwest Canada (Dené).....	29	(females).....	118
Northwestern and Alaskan crania		Buriat: Irkutsk series (fe-	
(general abstract).....	28	males).....	120
Alaska Peninsula:		Buriat: Summary.....	122
Males.....	30	Ulchi-D.....	124
Females.....	32	Ulchi-B.....	126
Kodiak Island:		Giliak-LB (Sakhalin).....	128
Koniag males.....	34	Giliak-D (Amur).....	132
Koniag females.....	38	Yakut.....	134
Koniag children and ado-		Yukagir.....	136
lescents.....	41	Orochi.....	138
Pre-Koniag children.....	43, 44	Koriak, Lamut, and Kam-	
Pre-Koniag males.....	46, 50	chadal.....	140
Pre-Koniag females.....	52, 58, 59	Chukchi (Chukchi Penin-	
Aleutian Islands:		sula).....	142
Aleut males.....	61	Chukchi (Anadyr region) ..	148
Aleut males (Kagamil		Chukchi (miscellaneous).....	152
Caves).....	66	Chukchi (abstract).....	154
Aleut females.....	70	Mongol males.....	156
Aleut females (Kagamil		Mongol females.....	162
Caves).....	74	Mongols (abstract).....	166
Pre-Aleut males.....	78	Siberian crania (abstract) ..	167
Pre-Aleut females.....	82		







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