

SI Table 1. Stable isotope and radiocarbon results for humans and animals of the Afanasyevo to Tagar Cultures (Bronze Age and Early Iron Age) from the Minusinsk Basin, Southern Siberia

Contextual and pretreatment details are presented in [3,4].

The radiocarbon ages were calibrated using IntCal13 calibration curve (<http://calib.org/calib/>).

IDs	Bone sampled	$\delta^{15}\text{N}$, ‰	$\delta^{13}\text{C}$, ‰	C:N _{at}	Sex, age / species	^{14}C BP	Cal. age (2 σ)	Provenance
<i>Afanasyevo Culture</i>								
SS 6136-2	r. femur	11.7	-19.0	3.4	n/a			Afanasyeva Mountain, b. 72
SS 6136-3 (UB-7489)	r. scapula	12.2	-18.6	3.3	♂, 25	4077±39	2860-2489 BC	Afanasyeva Mountain, b. 73
SS 6136-5	cranium, mandibula	12.2	-19.2	3.4	♀, 25			Afanasyeva Mountain, b. 73
SS 6136-6	l. scapula	12.4	-19.1	3.5	♀, 25			Afanasyeva Mountain, b. 73
SS 6136-7 (UBA-7903)	sacrum	12.6	-19.3	3.5	♀, 35	4037±31	2831-2473 BC	Afanasyeva Mountain, b. 73
SS 6136-10 (UBA-8772)	l. scapula	13.5	-19.1	3.3	♀, 45	4092±27	2858-2502 BC	Afanasyeva Mountain, b. 75
SS 6136-9	mandibula	13.2	-18.9	3.5	♀, 25			Afanasyeva Mountain, b. 75
SS 6612-2	r. tibia	11.3	-19.1	3.4	♂, 25			Karasuk III, encl. 1, g. 1, sk. 2
SS 6612-4	cranium	11.5	-19.2	3.5	♂?			Karasuk III, encl. 1, g. 2, sk. 1
SS 6612-5 (UBA-8773)	cranium	11.2	-19.3	3.5	♂, 35	3996±26	2572-2470 BC	Karasuk III, encl. 1, g. 2, sk. 2
SS 6612-6 (UBA-8774)	l. radius	10.8	-19.3	3.4	n/a	4148±26	2874-2631 BC	Karasuk III, encl. 1, g. 3, sk. 1
SS 6612-22	scapulae	11.2	-19.3	3.5	♀, 45			Karasuk III, encl. 12, g. 1, sk. 1
SS 6612-32	l. tibia	11.3	-19.9	3.6	n/a			Karasuk III, encl. 10, g. 1
SS 6612-33	l. scapula	11.9	-18.6	3.3	♀, 20			Karasuk III, encl. 11, g. 1, sk. 1
SS 6612-34	r. ulna	fail - C:N _{at}			♂, 25			Karasuk III, encl. 13, g. 1, sk. 1
SS 6612-35	r. ulna	11.6	-19.3	3.4	n/a			Karasuk III, encl. 13, g. 1, sk. 2
SS 6612-36	l. scapula	12.0	-18.8	3.4	♂, 25			Karasuk III, encl. 14, g. 1, sk. 1
SS 6612-8	cranium, mandibula	11.1	-19.6	3.6	♀?, 25			Karasuk III, encl. 2, g. 1, sk. 2
SS 6612-9	l. radius	11.9	-18.5	3.4	♂, 25			Karasuk III, encl. 2, g. 1, sk. 3
SS 6612-10	l. radius	11.1	-19.0	3.3	♀?, 20			Karasuk III, encl. 2, g. 1, sk. 4
SS 6612-12	l.scapula	11.2	-19.0	3.3	♂, 30			Karasuk III, encl. 2, g. 2, sk. 2
SS 6612-14	l. radius	10.6	-19.5	3.6	n/a			Karasuk III, encl. 3, g. 1, sk. 1
SS 6612-19	r. scapula	fail - C:N _{at}			♀, 45+			Karasuk III, encl. 4, g. 3, sk. 1
SS 6612-37	r. ulna	10.8	-19.2	3.4	♀, 20			Karasuk III, encl. 5, g. 1, sk. 1
SS 6612-23	l. scapula	11.8	-19.1	3.4	♂, 25			Karasuk III, encl. 5, g. 2, sk. 1

IDs	Bone sampled	$\delta^{15}\text{N}$, ‰	$\delta^{13}\text{C}$, ‰	C:N _{at}	Sex, age / species	^{14}C BP	Cal. age (2 σ)	Provenance
SS 6612-24	l. scapula	12.6	-19.0	3.4	♂?			Karasuk III, encl. 6, g. 1, sk. 1
SS 6612-29	l. scapula	11.4	-18.7	3.3	♀, 20			Karasuk III, encl. 8, g. 1, sk. 1
SS 6612-30	l. scapula	11.5	-19.1	3.4	♀, 25			Karasuk III, encl. 9, g. 1, sk. 1
SS 6612-31	l. hip	11.4	-19.0	3.4	♀, 35			Karasuk III, encl. 9, g. 2, sk. 1
SS Le-1	?	6.8	-18.8	3.2	goat young			Sukhanikha
SS Le-2	scapula	3.8	-20.7	3.2	goat			Sukhanikha
SS Le-3	?	fail - no collagen			sheep			Sukhanikha
SS Le-4	?	5.5	-20.5	3.3	deer young			Sukhanikha
SS Le-5	?	4.3	-21.3	3.3	small deer/wild pig			Sukhanikha
SS Le-6	?	3.8	-20.8	3.3	sheep/goat			Sukhanikha
SS Le-7	?	fail - no collagen			sheep			Sukhanikha
SS Le-8	?	6.9	-19.6	3.2	sheep/goat/young deer			Sukhanikha
<i>Okunev Culture</i>								
SS 6267-1 (UBA-8771)	l. humerus	11.1	-19.4	3.5	♀, 45	3853±35	2460-2206 BC	Batani
SS 6160-4 (UBA-8783)	l. scapula	12.7	-18.9	3.3	30	3894±24	2466-2299 BC	Okunev Ulus, g. 1
SS 6160-17 (UBA-8781)	mandibula	10.4	-18.7	3.6	♂, 30?	3687±25	2190-1979 BC	Okunev Ulus, g. 5
SS 6160-32 (UB-7494)	mandibula	13.5	-19.5	3.3	♂, 25	3757±35	2287-2040 BC	Okunev Ulus, g. 5
SS 6160-33 (UBA-7927)	mandibula	13.0	-18.7	3.4	♂, 45	3725±38	2276-1984 BC	Okunev Ulus, g. 5
SS 6160-34 (UBA-7929)	r. hip	12.8	-18.8	3.4	♀, 25	3619±40	2131-1885 BC	Okunev Ulus, g. 7
SS 7053-124	r. fibula	fail - C:N _{at}			n/a			Uibat III, k. 1, g. 1 (bottom), sk. 1
SS 7053-125	?	fail - no collagen			♀, 20			Uibat III, k. 1, g. 1, cran. 1
SS 7053-126 (UBA-7916)	cranium	11.4	-18.7	3.4	♀, 45	3644±44	2138-1902 BC	Uibat III, k. 1, g. 1, cran. 2
SS 7053-127	l. mastoid	11.5	-18.5	3.3	♂, 25			Uibat III, k. 1, g. 1, cran. 3
SS 7053-128	mandibula	11.2	-18.5	3.3	♂, 40			Uibat III, k. 1, g. 1, cran. 4
SS 7053-129	mandibula	11.7	-18.8	3.4	♀, 35			Uibat III, k. 1, g. 1, mand. A
SS 7053-130	mandibula	11.3	-19.0	3.5	♀			Uibat III, k. 1, g. 1, mand. B
SS 7053-133	mandibula	12.5	-18.6	3.5	25			Uibat III, k. 1, g. 1, mand. D
SS 7053-132	mandibula	11.7	-18.8	3.5	♂, 20			Uibat III, k. 1, g. 1, mand. G
SS 7053-131	mandibula	11.6	-18.1	3.3	♂, 20			Uibat III, k. 1, g. 1, mand. V
SS 7053-134	maxilla	fail - no collagen			25			Uibat III, k. 1, g. 1
SS 7053-135	maxilla	fail - no collagen			25			Uibat III, k. 1, g. 1
SS 7053-136	maxilla	11.6	-18.8	3.6	45			Uibat III, k. 1, g. 1
SS 7053-147	l. humerus	12.3	-19.3	3.5	♀?			Uibat III, k. 1, g. 1

IDs	Bone sampled	$\delta^{15}\text{N}$, ‰	$\delta^{13}\text{C}$, ‰	C:N _{at}	Sex, age / species	^{14}C BP	Cal. age (2 σ)	Provenance
SS 7053-148	r. humerus	11.9	-19.0	3.4	♀?			Uibat III, k. 1, g. 1
SS 7053-149	r. humerus	11.4	-18.3	3.3	♂			Uibat III, k. 1, g. 1
SS 7053-150	r. humerus	11.2	-18.6	3.3	♂			Uibat III, k. 1, g. 1
SS 7053-151	r. humerus	12.2	-18.5	3.3	n/a			Uibat III, k. 1, g. 1
SS 7053-152	r. humerus	11.9	-18.4	3.3	♂			Uibat III, k. 1, g. 1
SS 7053-153	l. humerus	11.0	-18.8	3.4	♂			Uibat III, k. 1, g. 1
SS 7053-154	l. humerus	11.3	-18.8	3.4	n/a			Uibat III, k. 1, g. 1
SS 7053-155	l. femur	11.2	-18.5	3.3	n/a			Uibat III, k. 1, g. 1
SS 7053-156	l. femur	11.2	-18.7	3.4	♂?			Uibat III, k. 1, g. 1
SS 7053-157	l. femur	fail - no collagen			n/a			Uibat III, k. 1, g. 1
SS 7053-158	cranium	fail - no collagen			♀?, 20			Uibat III, k. 1, g. 2
SS 7053-159	l. scapula	11.8	-18.9	3.5	♂, 30			Uibat III, k. 1, g. 3
SS 7053-160	cranium	11.2	-19.1	3.4	♀, 20			Uibat III, k. 1, g. 4
SS 7053-165	cranium	11.6	-18.9	3.5	♀, 30			Uibat III, k. 1, g. 6
SS 7053-167	l. hip	12.2	-19.0	3.5	♀, 45+			Uibat III, k. 1, g. 8, sk. 1
SS 7053-169	r. tibia	fail - no collagen			♂, 30			Uibat V, k. 1, g. 1, sk. 1
SS 7053-170	r. radius	fail - no collagen			♀, 20			Uibat V, k. 1, g. 1a
SS 7053-171	r. scapula	fail - no collagen			♀, 20			Uibat V, k. 1, g. 2
SS 7053-172	cranium	11.5	-18.7	3.4	♂, 35			Uibat V, k. 1, g. 2a, sk. 2
SS 7053-173 (UBA-7912)	cranium	12.3	-18.4	3.3	♂, 30	3723±30	2201-2033 BC	Uibat V, k. 1, g. 3
SS 7053-175	cranium	11.8	-18.8	3.4	♀, 25			Uibat V, k. 1, g. 3a Va, sk. B
SS 7053-176 (UBA-7917)	cranium	11.7	-19.2	3.4	♀, 25	3832±28	2456-2154 BC	Uibat V, k. 1, g. 3a Va, sk. V
SS 7053-174	l. hip	fail - no collagen			♂, 20			Uibat V, k. 1, g. 3a-5a, sk. A
SS 7053-177	l. humerus	fail - C:N _{at}			♂, 20			Uibat V, k. 1, g. 4
SS 7053-178	r. scapula	fail - no collagen			♂, 20			Uibat V, k. 1, g. 5, sk. 1
SS 7053-180	cranium	12.4	-18.5	3.6	♂, 30			Uibat V, k. 1, g. 8
SS 7053-181	r. scapula	fail - C:N _{at}			♂, 40			Uibat V, k. 2, g. 3, sk. 1
SS 7053-182	cranium	fail - no collagen			♂, 20			Uibat V, k. 2, g. 3, sk. 2
SS 7053-183 (UBA-7963)	l. femur	11.7	-18.8	3.5	♀?, 20	3691±26	2193-1980 BC	Uibat V, k. 2, g. 4, sk. A
SS 7053-184	l. humerus	fail - no collagen			20			Uibat V, k. 2, g. 4, sk. B
SS 7053-185	r. tibia	12.1	-18.7	3.4	♀, 45			Uibat V, k. 2, g. 4, upper sk.
SS 7053-187	l. ilium	fail - no collagen			subad.			Uibat V, k. 3, sk. 2
SS 7053-207	mandibula	11.5	-18.9	3.4	♀, 25			Uibat V, k. 4, g. 13

IDs	Bone sampled	$\delta^{15}\text{N}$, ‰	$\delta^{13}\text{C}$, ‰	C:N _{at}	Sex, age / species	^{14}C BP	Cal. age (2 σ)	Provenience
SS 7053-208	cranium	12.2	-19.1	3.6	♀, 35			Uibat V, k. 4, g. 14
SS 7053-209	mandibula	12.1	-18.6	3.4	♂, 20			Uibat V, k. 4, g. 15
SS 7053-210 (UBA-7965)	r. scapula	12.4	-19.2	3.6	♀, 20	3651±25	2132-1944 BC	Uibat V, k. 4, g. 18.
SS 7053-213	mandibula	fail - no collagen			♂, 25			Uibat V, k. 4, g. 20, sk. B.
SS 7053-215 (UBA-7915)	r. calcaneum	12.1	-18.9	3.4	n/a	3698±28	2196-1982 BC	Uibat V, k. 4, g. 21, sk. 2
SS 7053-191 (UBA-7964)	cranium	11.7	-18.5	3.5	♀?, 30	3721±25	2198-2035 BC	Uibat V, k. 4, g. 4, cran. A.
SS 7053-196	r. ulna	fail - no collagen			♀, 20			Uibat V, k. 4, g. 6, sk. 1
SS 7053-200	r. hip	fail - no collagen			♀, 40			Uibat V, k. 4, g. 7, sk. 3
SS 7053-201	cranium	12.1	-19.1	3.5	♂, 40			Uibat V, k. 4, g. 8, sk. 1
SS 7053-202	cranium	11.9	-19.1	3.4	♀			Uibat V, k. 4, g. 8, sk. 2
SS 7053-203	cranium	fail - no collagen			♀			Uibat V, k. 4, g. 8, sk. 3
SS 7053-204	cranium	fail - no collagen			♀, 20			Uibat V, k. 4, g. 9
SS 7053-6 (UBA-7908)	r. femur	12.0	-18.5	3.3	♂	3719±31	2201-2030 BC	Verhniy Askiz I, k. 1, g. 10, sk. 1
SS 7053-14	cranium	11.5	-18.5	3.3	♀?			Verhniy Askiz I, k. 1, g. 12, sk. 1
SS 7053-17 (UBA-7914)	mandibula	11.7	-19.0	3.5	♂, 25	3894±28	2466-2298 BC	Verhniy Askiz I, k. 1, g. 13, sk. 1
SS 7053-20	l. radius	11.2	-18.7	3.4	n/a			Verhniy Askiz I, k. 1, g. 17, sk. 1
SS 7053-24	r. mastoid	11.2	-18.7	3.3	♂, 40			Verhniy Askiz I, k. 1, g. 20, sk. 1
SS 7053-121	?	fail - no collagen			♀?			Verhniy Askiz I, k. 1, g. 21, sk. 3
SS 7053-29	cranium	11.5	-18.7	3.2	♀, 30			Verhniy Askiz I, k. 1, g. 22
SS 7053-1	cranium	11.8	-18.7	3.3	♀, 45			Verhniy Askiz I, k. 1, g. 3, sk. 1 (N)
SS 7053-2	cranium	11.6	-18.7	3.3	♀, 20			Verhniy Askiz I, k. 1, g. 3, sk. 2 (S)
SS 7053-4 (UBA-7910)	mandibula	11.4	-18.5	3.3	♀, 30	3654±29	2135-1943 BC	Verhniy Askiz I, k. 1, g. 6
SS 7053-5	mandibula	11.7	-19.0	3.4	♀, 20			Verhniy Askiz I, k. 1, g. 9
SS 7053-36	r. clavicle	10.9	-18.6	3.3	♀, 40			Verhniy Askiz I, k. 2, g. 1, sk. 4 (b. 3)
SS 7053-63	r. femur	12.2	-18.6	3.3	n/a			Verhniy Askiz I, k. 2, g. 10
SS 7053-69	r. scapula	11.4	-18.5	3.3	♂, 30?			Verhniy Askiz I, k. 2, g. 13, sk. 1
SS 7053-71	r. radius	11.6	-19.2	3.3	♀			Verhniy Askiz I, k. 2, g. 14, sk. 1
SS 7053-74 (UBA-7919)	r. tibia	11.7	-19.5	3.6	♂	3738±30	2272-2035 BC	Verhniy Askiz I, k. 2, g. 15, sk. 1 (b. 1)
SS 7053-75	mandibula	11.5	-19.0	3.6	♂, 20			Verhniy Askiz I, k. 2, g. 15, sk. 2 (b. 2)
SS 7053-76	l. tibia	11.2	-18.8	3.5	n/a			Verhniy Askiz I, k. 2, g. 15, sk. 3 (b. 2)
SS 7053-77	mandibula	11.1	-18.7	3.4	20			Verhniy Askiz I, k. 2, g. 16, sk. 1
SS 7053-78	cranium	11.1	-19.0	3.5	♂, 35			Verhniy Askiz I, k. 2, g. 16, sk. 2
SS 7053-84	l. humerus	11.6	-18.6	3.3	n/a			Verhniy Askiz I, k. 2, g. 18 (b. 2)

IDs	Bone sampled	$\delta^{15}\text{N}$, ‰	$\delta^{13}\text{C}$, ‰	C:N _{at}	Sex, age / species	^{14}C BP	Cal. age (2 σ)	Provenance
SS 7053-39	cranium	11.6	-19.0	3.5	♂, 30			Verhniy Askiz I, k. 2, g. 2, sk. 2 (b. 2)
SS 7053-85 (UBA-7911)	l. tibia	11.7	-17.8	3.5	♀, 20	3713±30	2200-2028 BC	Verhniy Askiz I, k. 2, g. 21, sk. 1
SS 7053-86	r. tibia	11.3	-18.5	3.6	n/a			Verhniy Askiz I, k. 2, g. 21, sk. 2
SS 7053-87	l. humerus	10.7	-18.2	3.6	♀?, 25			Verhniy Askiz I, k. 2, g. 21, sk. 3
SS 7053-88	r. humerus	fail - C:N _{at}			n/a			Verhniy Askiz I, k. 2, g. 21, sk. 4
SS 7053-89	l. scapula	10.7	-18.1	3.4	♂, 30			Verhniy Askiz I, k. 2, g. 22
SS 7053-90	l. fibula	fail - no collagen			♂?			Verhniy Askiz I, k. 2, g. 23
SS 7053-91	l. tibia	fail - no collagen			♀, 25			Verhniy Askiz I, k. 2, g. 24
SS 7053-92	mandibula	fail - no collagen			♂, 20?			Verhniy Askiz I, k. 2, g. 26, sk. 1
SS 7053-95	l. scapula	11.8	-18.7	3.5	♂?, 45			Verhniy Askiz I, k. 2, g. 28, sk. 1 (b. 1)
SS 7053-98	cranium	11.1	-18.0	3.4	♀, 20			Verhniy Askiz I, k. 2, g. 28, sk. 4
SS 7053-99	cranium	11.0	-19.1	3.6	♂, 25			Verhniy Askiz I, k. 2, g. 28, sk. 5
SS 7053-102	l. tibia	11.2	-18.8	3.5	♀, 30			Verhniy Askiz I, k. 2, g. 29, sk. 1
SS 7053-103	mandibula	11.1	-18.6	3.3	♀, 30			Verhniy Askiz I, k. 2, g. 29, sk. 2
SS 7053-41	r. scapula	11.1	-18.6	3.3	n/a			Verhniy Askiz I, k. 2, g. 3, sk. 2 (b. 2)
SS 7053-42	r. radius	11.9	-18.1	3.3	♂, 25			Verhniy Askiz I, k. 2, g. 3, sk. 3 (b. 2)
SS 7053-108	l. fibula	11.6	-18.4	3.3	♂			Verhniy Askiz I, k. 2, g. 31, sk. 1
SS 7053-110	r. ulna (radius?)	12.4	-18.5	3.5	♀, 20			Verhniy Askiz I, k. 2, g. 32
SS 7053-112	r. fibula	11.2	-17.9	3.3	n/a			Verhniy Askiz I, k. 2, g. 34, sk. 1
SS 7053-114	r. radius	11.0	-18.4	3.3	n/a			Verhniy Askiz I, k. 2, g. 35, sk. 1
SS 7053-43 (UBA-7913)	cranium	11.6	-19.0	3.3	♀, 35	3934±39	2565-2297 BC	Verhniy Askiz I, k. 2, g. 4, sk. 1
SS 7053-44	mandibula	11.6	-18.7	3.4	♂, 40			Verhniy Askiz I, k. 2, g. 4, sk. 2
SS 7053-46	cranium	fail - C:N _{at}			♀, 20			Verhniy Askiz I, k. 2, g. 4, sk. 4
SS 7053-45	mandibula	12.3	-18.6	3.4	♂, 25			Verhniy Askiz I, k. 2, g. 4, sk. 5
SS 7053-47	r. maxilla	fail - no collagen			20?			Verhniy Askiz I, k. 2, g. 4, sk. 5
SS 7053-48	cranium	fail - C:N _{at}			♂, 30			Verhniy Askiz I, k. 2, g. 4, sk. 6
SS 7053-49	cranium	11.4	-18.2	3.3	7-8			Verhniy Askiz I, k. 2, g. 4, sk. 7
SS 7053-50	l. fibula	fail - C:N _{at}			n/a			Verhniy Askiz I, k. 2, g. 4
SS 7053-117	l. femur	11.2	-18.3	3.3	♂?			Verhniy Askiz I, k. 2, g. 40, sk. 1
SS 7053-118	l. femur	10.5	-18.6	3.3	n/a			Verhniy Askiz I, k. 2, g. 40, sk. 2
SS 7053-119	l. femur	11.4	-18.2	3.4	n/a			Verhniy Askiz I, k. 2, g. 40, sk. 3
SS 7053-51	l. humerus	11.3	-18.2	3.3	♀?			Verhniy Askiz I, k. 2, g. 5, sk. 1 (b. 1)
SS 7053-123	?	fail - no collagen			♀?			Verhniy Askiz I, k. 2, g. 5?, b. 1

IDs	Bone sampled	$\delta^{15}\text{N}$, ‰	$\delta^{13}\text{C}$, ‰	C:N _{at}	Sex, age / species	^{14}C BP	Cal. age (2 σ)	Provenance
SS 7053-53	cranium	11.9	-18.5	3.4	♀, 25			Verhniy Askiz I, k. 2, g. 6, b. 1
SS 7053-56	r. tibia	11.5	-18.8	3.4	n/a			Verhniy Askiz I, k. 2, g. 6, b. 3 (1?)
SS 7053-58	l. hip	11.7	-18.6	3.3	♂, 20			Verhniy Askiz I, k. 2, g. 7
SS 7053-59	r. hip	10.9	-18.2	3.3	♂, 20			Verhniy Askiz I, k. 2, g. 8, sk. 1 (b. 1)
SS 7053-61	r. scapula	11.6	-18.0	3.4	♂, 20			Verhniy Askiz I, k. 2, g. 8, sk. 3 (b. 3)
SS 7053-62	cranium	11.7	-18.8	3.4	♂, 35			Verhniy Askiz I, k. 2, g. 9
SS 7053-32	l. femur	11.2	-18.8	3.4	♂?			Verhniy Askiz I, k. 2, N ditch of the encl.
SS 7053-122	?	fail - no collagen			♂, 20			Verhniy Askiz I, k. 2, N trench
SS 7053-120	cranium	11.7	-18.8	3.3	♂, 25			Verhniy Askiz I, k. 2
SS 6160-31	l. humerus	13.5	-19.3	3.5	♂			Okunev Ulus, g. 5
SS Laz-1	nail	3.5	-18.3	3.3	bear			Uibat V
SS Laz-2	femur	4.5	-20.8	3.5	roe deer			Itkol I
SS Laz-3	pelvis	5.0	-20.3	3.2	cattle/small deer			Itkol I
SS Laz-4	femur	4.4	-21.1	3.3	horse			Itkol I
<i>Andronovo Culture</i>								
SS 6141-87	scapula	10.4	-18.3	3.3	♂, 20			Pervomayskoye I, g. 24
SS 6141-88	l. femur	11.7	-18.6	3.3	n/a			Pervomayskoye I, g. 24
SS 6141-89	l. tibia	10.4	-19.0	3.3	n/a			Pervomayskoye I, g. 24
SS 6141-92 (UBA-7922)	r. radius	10.2	-18.8	3.3	♂?, 35	3205±41	1607-1407 BC	Pervomayskoye I, g. 28
SS 8993-6	cranium	10.7	-19.2	3.3	♂, 20			Potroshilovo II, encl. 1
SS 8993-13	mandibula	11.1	-18.6	3.2	♀?, 20			Potroshilovo II, encl. 10
SS 8993-14 (UBA-9329)	cranium	11.5	-19.2	3.1	♂, 40	3316±24	1661-1527 BC	Potroshilovo II, encl. 15
SS 8993-8	cranium	12.0	-19.5	3.5	♂, 20			Potroshilovo II, encl. 5, g. 1
SS 8993-9 (UBA-9328)	cranium	10.3	-20.1	3.3	♂, 30	3294±28	1629-1504 BC	Potroshilovo II, encl. 5, g. 3
SS 8993-10	cranium, mandibula	11.6	-18.6	3.2	♂, 20			Potroshilovo II, encl. 7
SS 8993-12	cranium	11.2	-19.5	3.3	♀, 25			Potroshilovo II, encl. 9
SS 7800-9	mandubula	10.7	-19.7	3.5	♂, 30			Ust-Bir IV, g. 10
SS 7800-13	cranium	fail - C:N _{at}			♀, 20			Ust-Bir IV, g. 14
SS 7800-14	cranium	11.8	-19.1	3.3	♂, 35			Ust-Bir IV, g. 15
SS 7800-15 (UBA-9331)	mandibula	11.4	-18.8	3.2	♂, 40	3382±27	1744-1621 BC	Ust-Bir IV, g. 16
SS 7800-16	cranium	11.8	-19.1	3.2	♂, 35			Ust-Bir IV, g. 17
SS 7800-17 (UBA-9332)	cranium	12.1	-19.1	3.3	♂, 35	3278±23	1614-1505 BC	Ust-Bir IV, g. 19
SS 7800-19	cranium	fail - C:N _{at}			♂, 25			Ust-Bir IV, g. 21

IDs	Bone sampled	$\delta^{15}\text{N}$, ‰	$\delta^{13}\text{C}$, ‰	C:N _{at}	Sex, age / species	¹⁴ C BP	Cal. age (2σ)	Provenance
SS 7800-22	cranium	fail - C:N _{at}			♂, 25			Ust-Bir IV, g. 25
SS 7800-23 (UBA-9333)	cranium	10.4	-20.0	3.3	♀, 20	3309±22	1639-1521 BC	Ust-Bir IV, g. 26
SS 7800-24	cranium	11.0	-19.9	3.4	♂, 40			Ust-Bir IV, g. 28
SS 7800-7	cranium	11.8	-19.3	3.2	♀, 20			Ust-Bir IV, g. 8, southern sk.
SS 6141-3 (UB-7491)	l. humerus	11.6	-19.6	3.2	♀?, 40	3317±34	1683-1511 BC	Yarki II, g. 1
SS 6141-4 (UB-7490)	l. femur	11.0	-19.4	3.2	30	3333±35	1731-1526 BC	Yarki II, g. 2
SS 6141-12 (UBA-7921)	cranium, mandibula	11.6	-18.5	3.3	♀?, 40	3348±32	1737-1532 BC	Yarki II.
SS Laz-5	pelvis	8.5	-18.7	3.3	wolf			Itkol III
SS Laz-6	mandibula	5.1	-18.3	3.3	sheep			Itkol III
<i>Karasuk Culture</i>								
SS Gr-1 (UBA-7966)	femur, humerus	11.3	-14.4	3.3	n/a	2833±24	1052-916 BC	Kamenniy Ostrov
SS 6141-95 (UBA-7931)	l. ulna	11.5	-17.2	3.3	n/a	2793±78	1189-805 BC	Solnechniy Log, g. 1 (16)
SS 6160-35	ischium	fail - no collagen			♀, 17-25			Charkov ulus, g. 2 (22 according to diary)
SS 6141-124	r. fibula	10.7	-17.1	3.3	♂, 30			Melnichniy Log (Karasuk I), g. 54
SS 6141-125	r. and l. radius, l. ulna	11.3	-15.4	3.3	n/a			Melnichniy Log (Karasuk I), g. 60
SS 6141-128	mandibula	10.8	-17.1	3.5	♀?, 25			Melnichniy Log (Karasuk I), g. 64
SS 6141-123 (UBA-7932)	r. scapula	10.4	-17.1	3.3	♀	2957±45	1367-1016 BC	Melnichniy Log (Karasuk I), g. 65
SS 6141-129 (UBA-7933)	l. scapula	11.1	-16.4	3.3	♂, 25	2978±39	1373-1055 BC	Melnichniy Log (Karasuk I), g. 65
SS 8993-4 (UBA-9327)	mandibula	11.2	-12.8	3.3	♀, 20	3008±22	1376-1131 BC	Minusinskiy Karyer, g. 2
SS 6160-19	l. scapula	11.5	-17.3	3.4	♀, 20			Okunev Ulus, g. 10
SS 6160-24 (UBA-8779)	l. hip	11.8	-14.3	3.4	♂, 30	2962±24	1262-1088 BC	Okunev Ulus, g. 2
SS 6160-25 (UBA-9338)	r. hip	12.0	-14.8	3.5	♂, 25	2890±27	1193-981 BC	Okunev Ulus, g. 2
SS 6160-20	hip	11.0	-16.1	3.4	♀, 20			Okunev Ulus, g. 3
SS 6160-26	l. tibia	fail - C:N _{at}			n/a			Okunev ulus, g. 3
SS 6160-21	mandibula	11.4	-17.5	3.4	♀, 20			Okunev Ulus, g. 4
SS 6160-27	mandibula	fail - C:N _{at}			♂, 25			Okunev ulus, g. 4
SS 6160-28 (UBA-7928)	cranium	11.5	-16.0	3.5	♂?	2987±55	1393-1047 BC	Okunev Ulus, g. 5
SS 6160-18	mandibula	12.2	-17.9	3.5	20			Okunev Ulus, g. 9
SS 6141-82	r. fibula	10.8	-16.0	3.3	20			Pervomayskoye I, g. 20
SS 6141-83 (UBA-7925)	l. tibia	11.3	-16.1	3.3	20	3122±42	1496-1279 BC	Pervomayskoye I, g. 21
SS 6141-84	scapula	10.9	-17.5	3.4	30			Pervomayskoye I, g. 22
SS 6141-85	r. fibula	11.1	-16.9	3.6	♀, 20			Pervomayskoye I, g. 23
SS 6141-86	l. tibia	11.5	-17.7	3.5	n/a			Pervomayskoye I, g. 23

IDs	Bone sampled	$\delta^{15}\text{N}$, ‰	$\delta^{13}\text{C}$, ‰	C:N _{at}	Sex, age / species	^{14}C BP	Cal. age (2 σ)	Provenance
SS 6141-90	l. ischium	fail - no collagen			♂?, 30?			Pervomayskoye I, g. 26
SS 6141-91	r. femur	11.5	-17.6	3.4	♂?, 30?			Pervomayskoye I, g. 27
SS 6141-93	r. ulna	11.5	-17.2	3.3	n/a			Pervomayskoye I, g. 29
SS 6141-13 (UBA-9339)	?	12.3	-17.5	3.2	♂?, 20	3021±27	1390-1133 BC	Podgornoye Ozero I, g. 3
SS 6141-14 (UBA-8777)	r. hip	12.3	-15.4	3.2	♀, 30?	3063±24	1408-1261 BC	Podgornoye Ozero I, g. 4
SS 6141-16 (UBA-7923)	l. scapula	12.6	-15.9	3.3	♂?, 30	3017±41	1394-1127 BC	Podgornoye Ozero I, g. 6
SS 6141-17	mandibula	11.3	-15.2	3.3	♀?, 20			Podgornoye Ozero I, g. 12
SS 6141-18 (UBA-7924)	mandibula	10.6	-14.7	3.3	30	2850±41	1187-905 BC	Podgornoye Ozero I, g. 14
SS 6141-35 (UBA-8788)	cranium, r. scapula	11.0	-15.9	3.4	♀, 30	3011±22	1379-1132 BC	Podgornoye Ozero, k. 3, g. 22 (NE)
SS 6141-6 (UB-7493)	l. tibia	11.2	-17.7	3.4	♀, 20	2945±33	1260-1045 BC	Yarki I, g. 1 (35)
SS 6141-7 (UBA-7930)	l. femur	11.9	-17.7	3.3	♂, 30?	2904±40	1218-978 BC	Yarki I, g. 3 (37)
SS 6141-8	r. scapula	12.0	-17.6	3.3	♂, 20			Yarki I, g. 4 (38)
SS 6141-5	r. femur	11.4	-18.0	3.0	♂, 30			Yarki I.
SS 6160-5	cranium	fail - no collagen			♀, 20			Okunev ulus, g. 1
SS 7053-186 (UBA-7920)	r. scapula	11.5	-15.9	3.4	♂, 40	2740±26	967-821 BC	Uibat V, k. 3, sk. 1
SS Gr-2	metapodium	fail - C:N _{at}			cattle			Kamenniy Ostrov
SS Gr-3	astragalus	fail - no collagen			cattle			Kamenniy Ostrov
SS Gr-4	l. humerus	7.2	-20.3	3.4	horse			Kamenniy Ostrov
SS Laz-7	rib, epiphyses	5.8	-19.1	3.4	horse young			Itkol I
SS Laz-8	l. tibia	fail - no collagen			sheep			Itkol I, k. 40, under mound
SS Sa-1	r. scapula	12.8	-15.7	3.4	dog			Kamenniy Ostrov
SS Sa-7	tooth	9.0	-21.8	3.3	horse			Kamenniy Ostrov
<i>Tagar Culture</i>								
SS 6141-96	r. scapula	11.4	-18.0	3.4	♂, 35			Barsuchiniy Log, g. 27
SS 7226-35 (UB-7495)	l. fibula	10.7	-14.4	3.1	♀, 40	2080±33	193-2 BC	Chernoye Ozero I
SS 7226-39	pelvis	11.8	-14.3	3.0	♂, 40			Chernoye Ozero I
SS 7226-55	rib	12.2	-14.2	3.0	♀?, 45+?			Chernoye Ozero I
SS 7226-68 (UBA-7949)	l. fibula	11.8	-12.5	3.0	♂, 20	1960±28	39 BC - 119 AD	Chernoye Ozero I
SS 7226-67 (UBA-7948)	scapula, pelvis	12.4	-14.4	3.0	♂?	2000±39	105 BC - 81 AD	Chernoye Ozero I, k. 3, g. 35
SS 6141-107	l. scapula	11.4	-18.8	3.4	♀, 35			Grishkin Log I, k. 1, g. 16 (27)
SS 6141-108 (UBA-7960)	r. tibia	12.0	-17.3	3.6	♀, 45+	2539±24	796-552 BC	Grishkin Log I, k. 1, g. 17 (28)
SS 6141-109 (UBA-7935)	l. fibula	11.1	-18.8	3.3	♂, 35	2653±49	910-773 BC	Grishkin Log I, k. 2, g. 18 (29)
SS 6141-111	r. ulna	11.4	-18.6	3.4	♂, 35			Grishkin Log I, k. 2, g. 19 (30)

IDs	Bone sampled	$\delta^{15}\text{N}$, ‰	$\delta^{13}\text{C}$, ‰	C:N _{at}	Sex, age / species	^{14}C BP	Cal. age (2 σ)	Provenance
SS 6141-112	mandibula	11.3	-18.9	3.6	♀, 35			Grishkin Log I, k. 2, g. 19 (30)
SS 6612-25 (UBA-7904)	l. scapula	13.0	-16.9	3.4	♂, 45	2362±29	553-385 BC	Karasuk III, encl. 7, g. 1, sk. 1
SS 6141-79	mandibula	11.1	-19.1	3.3	♂, 30			Lepeshkina, g. 16
SS 6141-80 (UBA-7947)	l. tibia	10.6	-14.2	3.3	n/a	2342±29	506-369 BC	Lepeshkina, g. 16
SS 6141-97 (UBA-7951)	r. scapula	10.2	-16.0	3.3	♂, 20	2366±28	534-388 BC	Melnichniy-Barsuchinniy Log, g. 35
SS 6141-99 (UBA-7952)	r. tibia	11.0	-18.3	3.3	♂, 30	2483±32	776-434 BC	Melnichniy-Barsuchinniy Log, g. 37
SS 6160-1 (UBA-7936)	mandibula	12.5	-11.8	3.3	♀, 20	2332±39	534-235 BC	Nurilkov Ulus, g. 2
SS 6160-2 (UBA-8785)	r. mastoid	12.6	-13.2	3.3	♂, 30	2485±21	766-539 BC	Nurilkov Ulus, g. 2
SS 6160-3 (UBA-8784)	r. mastoid	10.6	-18.3	3.5	♀, 25	2414±21	728-405 BC	Nurilkov Ulus, g. 2
SS 6160-22 (UBA-8778)	r. scapula	11.6	-14.8	3.3	♂, 30	2685±27	896-804 BC	Okunev Ulus, g. 12
SS 6160-10	cranium	12.3	-17.1	3.5	♂?, 35			Okunev Ulus, k. 11
SS 6160-11	mandibula	11.6	-15.7	3.4	♂?, 20			Okunev Ulus, k. 11
SS 6160-12 (UBA-7946)	mandibula	12.5	-16.8	3.3	30	2552±29	801-552 BC	Okunev Ulus, k. 11
SS 6160-13	mandibula	11.7	-16.2	3.3	♂, 25			Okunev Ulus, k. 11
SS 6160-6 (UBA-9336)	cranium	10.4	-17.1	3.5	20	2516±31	793-541 BC	Okunev Ulus, k. 11
SS 6160-7	cranium	fail - C:N _{at}			♂, 30			Okunev ulus, k. 11
SS 6160-8 (UBA-9337)	r. mastoid	10.4	-18.0	3.5	♂, 25	2316±30	413-236 BC	Okunev Ulus, k. 11
SS 6160-9 (UBA-8793)	cranium	12.8	-15.3	3.3	♀, 30	2476±19	763-519 BC	Okunev Ulus, k. 11
SS 6141-15 (UB-7492)	r. hip	10.2	-17.4	3.3	♀, 45	2548±33	802-547 BC	Podgornoye Ozero I, g. 5
SS 6141-42 (UBA-8786)	cranium	11.7	-14.7	3.4	♂, 35	2166±43	364-92 BC	Podgornoye Ozero, g. 1, b. 10a
SS 6141-43	ilium	11.2	-17.5	3.5	♀, 30			Podgornoye Ozero, g. 1, b. 10v
SS 6141-44	l. scapula	11.2	-17.6	3.5	♀, 45			Podgornoye Ozero, g. 1, b. 10v
SS 6141-66	r. femur	10.9	-17.9	3.3	♀, 35			Podgornoye Ozero, g. 10
SS 6141-45	r. humerus	11.4	-18.3	3.6	♂?			Podgornoye Ozero, g. 2
SS 6141-46	r. ulna, l. radius	10.7	-17.3	3.4	♂			Podgornoye Ozero, g. 2
SS 6141-48 (UBA-8787)	l. humerus	11.7	-12.0	3.3	n/a	2348±22	475-328 BC	Podgornoye Ozero, g. 3
SS 6141-76	r. scapula	10.9	-18.1	3.3	♂, 30?			Podgornoye Ozero, g. 36
SS 6141-77	r. hip	11.3	-17.0	3.4	♂, 20			Podgornoye Ozero, g. 37
SS 6141-78	r. hip	10.9	-17.8	3.4	♀?			Podgornoye Ozero, g. 38
SS 6141-49	cranium	fail - C:N _{at}			♀, 30?			Podgornoye Ozero, g. 4
SS 6141-51	l. scapula	11.6	-18.4	3.3	♀, 30?			Podgornoye Ozero, g. 5
SS 6141-59 (UBA-9335)	mandibula	11.3	-19.1	3.4	♂, 35	2630±24	827-791 BC	Podgornoye Ozero, g. 7
SS 6141-65	l. scapula	11.3	-17.6	3.4	♂, 30			Podgornoye Ozero, g. 8.

IDs	Bone sampled	$\delta^{15}\text{N}$, ‰	$\delta^{13}\text{C}$, ‰	C:N _{at}	Sex, age / species	^{14}C BP	Cal. age (2 σ)	Provenance
SS 6141-56	l. femur	10.8	-18.8	3.3	♂, 20			Podgornoye Ozero, k. 1, mound
SS 6141-52	scapulae	11.0	-18.2	3.3	♂, 35			Podgornoye Ozero, k. 1, g. 1
SS 6141-53	zygomatic, l. parietal	fail - C:N _{at}			n/a			Podgornoye Ozero, k. 1, g. 1
SS 6141-27 (UB-7496)	sacrum	11.2	-18.9	3.3	♂, 45	2561±34	806-550 BC	Podgornoye Ozero, k. 1, g. 17
SS 6141-54	scapulae	11.0	-17.7	3.3	♀, 45+			Podgornoye Ozero, k. 1, g. 2
SS 6141-55	l. tibia	11.4	-17.7	3.3	♀, 30?			Podgornoye Ozero, k. 1, g. 3
SS 6141-191	r. scapula	10.7	-18.0	3.4	35			Podgornoye Ozero (k. 1?), g. 4
SS 6141-60	l. scapula	10.7	-18.4	3.4	♀, 30			Podgornoye Ozero, k. 2, mound, b. A
SS 6141-61	l. clavicle, l. radius	11.5	-19.3	3.4	♀?, 20			Podgornoye Ozero, k. 2, mound, b. B
SS 6141-62	r. ulna	9.9	-16.0	3.4	n/a			Podgornoye Ozero, k. 2, mound, b. C
SS 6141-57	clavicles	11.2	-17.7	3.5	35			Podgornoye Ozero, k. 2
SS 6141-41 (UBA-7939)	l. tibia	11.6	-13.6	3.4	♂?, 30?	2356±39	728-366 BC	Podgornoye Ozero, k. 3, mound
SS 6141-33	mandibula	10.8	-18.9	3.3	♂?, 30?			Podgornoye Ozero, k. 3, g. 21 (NW)
SS 6141-36 (UBA-8789)	mandibula	11.1	-16.5	3.4	♀, 40?	2563±21	802-595 BC	Podgornoye Ozero, k. 3, g. 22 (NE)
SS 6141-37	mandibula	11.4	-14.7	3.5	♂?, 45			Podgornoye Ozero, k. 3, g. 23
SS 6141-38	mandibula	10.8	-15.8	3.3	♂, 45+?			Podgornoye Ozero, k. 3, g. 24
SS 6141-39	sacrum	10.6	-14.6	3.4	♀, 40			Podgornoye Ozero, k. 3, g. 24
SS 6141-40	sacrum	fail - C:N _{at}			♀, 20			Podgornoye Ozero, k. 3, g. 24
SS 6141-63	r. scapula	10.8	-18.4	3.5	♂, 20			Podgornoye Ozero, k. 3, g. 8
SS 6141-131	mandibula	11.2	-18.4	3.5	♀, 20			Saragash Ozero, g. 12
SS 6141-132 (UBA-7941)	r. radius	10.6	-18.8	3.6	♂, 35	2562±39	809-545 BC	Saragash Ozero, g. 13
SS 6141-133 (UBA-7940)	scapulae	11.8	-17.7	3.3	♀, 40	2510±53	798-431 BC	Saragash Ozero, g. 14
SS 6141-134	mandibula	11.8	-18.2	3.4	♂?, 45+?			Saragash Ozero, g. 14
SS 6141-139 (UB-7497)	mandibula	10.8	-17.7	3.4	♂?, 30	2486±38	785-431 BC	Saragash, mound of g. 8
SS 6141-140	mandibula	11.6	-15.0	3.4	30?			Saragash, mound of g. 8
SS 6141-176	cranium	10.9	-18.6	3.4	♀?, 35			Saragash, mound of g. 9
SS 6141-177	cranium	11.7	-14.6	3.3	♀, 30			Saragash, mound of g. 9
SS 6141-178	mandibula	10.6	-18.9	3.4	35			Saragash, mound of g. 9
SS 6141-180 (UBA-7945)	mandibula	10.6	-15.9	3.4	25	2456±39	757-413 BC	Saragash, g. 10
SS 6141-181	l. radius	11.1	-17.3	3.4	♂, 20			Saragash, g. 10
SS 6141-182	mandibula	10.7	-17.4	3.4	♂, 40			Saragash, g. 10
SS 6141-183	cranium	11.5	-17.0	3.4	♂?, 20?			Saragash, g. 10

IDs	Bone sampled	$\delta^{15}\text{N}$, ‰	$\delta^{13}\text{C}$, ‰	C:N _{at}	Sex, age / species	¹⁴ C BP	Cal. age (2σ)	Provenance
SS 6141-187	mandibula	11.2	-18.6	3.6	♀?, 30			Saragash, g. 11
SS 6141-188	mandibula	10.7	-16.2	3.4	♂?, 45			Saragash, g. 11
SS 6141-137	rib	10.3	-16.8	3.3	♀, 35			Saragash, g. 8
SS 6141-138	r. ulna	fail - C:N _{at}			n/a			Saragash, g. 8
SS 6141-142	mandibula	10.8	-18.2	3.3	♂, 45			Saragash, g. 9
SS 6141-143 (UBA-8790)	mandibula	11.5	-15.4	3.4	♂, 40	2502±21	776-542 BC	Saragash, g. 9
SS 6141-144 (UBA-9334)	mandibula	10.6	-18.7	3.3	♂, 40?	2454±23	752-415 BC	Saragash, g. 9
SS 6141-145 (UBA-8791)	mandibula	11.8	-16.7	3.4	♀, 35	2478±21	766-518 BC	Saragash, g. 9
SS 6141-146	cranium	11.3	-16.6	3.3	♂, 35			Saragash, g. 9
SS 6141-148	cranium	10.4	-17.5	3.4	♂?, 35			Saragash, g. 9
SS 6141-149	cranium	11.6	-16.0	3.3	♀, 40?			Saragash, g. 9
SS 6141-150	cranium	11.7	-15.8	3.3	♂, 35			Saragash, g. 9
SS 6141-151	cranium	11.1	-15.9	3.4	♀, 35			Saragash, g. 9
SS 6141-152	cranium	fail - C:N _{at}			35			Saragash, g. 9
SS 6141-153	cranium	11.7	-16.1	3.4	20?			Saragash, g. 9
SS 6141-154	cranium	10.7	-17.2	3.4	♀, 20?			Saragash, g. 9
SS 6141-155 (UBA-7943)	cranium	11.4	-14.2	3.3	♀?, 25	2421±45	752-401 BC	Saragash, g. 9
SS 6141-156	cranium	11.7	-16.1	3.4	♀			Saragash, g. 9
SS 6141-157	cranium	11.6	-14.8	3.3	♂?			Saragash, g. 9
SS 6141-158	cranium	11.9	-15.6	3.4	♂?, 25			Saragash, g. 9
SS 6141-159	cranium	11.8	-14.9	3.4	♀?, 30?			Saragash, g. 9
SS 6141-164	mandibula	11.3	-15.5	3.3	n/a			Saragash, g. 9
SS 6141-165 (UBA-8792)	mandibula	11.3	-15.7	3.3	♀?, 30?	2454±19	751-415 BC	Saragash, g. 9
SS 6141-166	mandibula	11.6	-15.1	3.4	30			Saragash, g. 9
SS 6141-167	mandibula	11.3	-16.5	3.4	n/a			Saragash, g. 9
SS 6141-168	mandibula	11.9	-16.8	3.5	40			Saragash, g. 9
SS 6141-170	mandibula	fail - C:N _{at}			30			Saragash, g. 9
SS 6141-171	mandibula	11.0	-16.4	3.6	35			Saragash, g. 9
SS 6141-173	mandibula	10.7	-16.1	3.4	25			Saragash, g. 9
SS 6141-174	mandibula	12.3	-14.4	3.3	♀?, 30?			Saragash, g. 9
SS 7053-22 (UBA-7907)	cranium	11.0	-17.7	3.3	♀, 45+	2609±29	821-772 BC	Verhniy Askiz I, k. 1, g. 18
SS 6141-9 (UBA-8782)	r. humerus	10.4	-15.7	3.2	45+	2200±31	366-185 BC	Yarki I, g. 4
SS 6141-10 (UB-7498)	l. ulna	11.9	-17.7	3.0	♀, 30?	2696±34	906-804 BC	Yarki II, g. 25

IDs	Bone sampled	$\delta^{15}\text{N}$, ‰	$\delta^{13}\text{C}$, ‰	C:N _{at}	Sex, age / species	^{14}C BP	Cal. age (2 σ)	Provenance
SS 6141-11 (UBA-7950)	r. femur	11.2	-18.2	3.2	♂, 20	2511±28	790-541 BC	Yarki II, g. 25
SS Alex-1	?	fail - no collagen			cattle			Sharypovo IV, sq. C4-B5
SS Alex-2	rib	6.0	-19.9	3.6	sheep			Bolshaya Erba II
SS Pod-1	scapula	4.1	-21.4	3.4	horse			Chilannygtakh
SS Pod-2	third phalanx	fail - no collagen			sheep			Chilannygtakh
SS Pod-3	third phalanx	fail - no collagen			sheep			Chilannygtakh
SS Pod-4	?	fail - C:N _{at}			roe deer			Chilannygtakh
SS Pod-5	mandibula	6.2	-19.0	3.5	goat			Chilannygtakh
SS Pod-6	third phalanx	fail - no collagen			roe deer			Chilannygtakh
SS Pod-7	astragalus	4.7	-21.1	3.4	cattle			Chilannygtakh
SS Pod-8	horn	4.1	-21.2	3.6	roe deer			Chilannygtakh
SS Sa-2	r. scapula	11.4	-17.4	3.3	dog			Bolshaya Erba II
SS Sa-3	r. rib	11.2	-18.9	3.4	dog			Khistaglar I
SS Sa-4	r. scapula	11.2	-18.6	3.4	dog			Chernoye Ozero I
SS Sa-5	zygomatic, scapula	11.2	-17.1	3.4	dog			Chernoye Ozero I
SS Sa-6	pelvis	11.8	-17.4	3.3	dog			Chernoye Ozero I
SS Sa-7	?	12.4	-18.2	3.3	dog			Uzun-Khir
<i>Medieval</i>								
SS 6136-1 (UBA-7902)	l. scapula	12.8	-16.7	3.3	♀, 25	1297±27	662-769 AD	Afanasyeva Gora, b. 71